August 20, 2018

Ms. Alicia A Barraza
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
Division of Spill Prevention and Response Programs
47-40 21st Street, Long Island City, New York 11101

Re: Quarterly Groundwater Sampling Report
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Queens, New York
NYSDEC BCP Number: C241141

Dear Ms. Barraza:

Please find the enclosed Quarterly Groundwater Sampling Report for the above referenced project for the first quarter of 2018. In accordance with the Site Management Plan (SMP), a round of groundwater sampling was performed on March 23, 2018 for 15MW1, 15MW2 and 15MW3.

If you have any questions or comments regarding the attached report, please do not hesitate to contact me.

Very truly yours,

Thomas Gallo
Environmental Geologist

Kevin Waters
Project Manager

Cc: J. O'Connell, NYSDEC
A. Arker, Bedford Park Associates LLC
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34-11 BEACH CHANNEL DRIVE SITE
NYSDEC BCP Number C241141
Project Status Report
2018

Reporting Summary

Report Date:	August 20, 2018
Reporting Period:	1st Quarter of 2018
Site Status:	Building is under construction, currently working on interior
Work Performed this Quarter:	March 23, 2018 – Groundwater sampling events performed on the three on-site monitoring wells.
Remediation Status:	No chemical oxidant events were performed during this period. A chemical oxidant injection was last performed on December 18, 2015, January 2, 2016 and July 5,2016.

Monitoring Program Summary

No. of Wells:	3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Gauging Frequency:	Quarterly for the three monitoring wells.
Sampling Frequency:	Quarterly, 3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Reporting Frequency:	Groundwater Sampling Report (Quarterly).
Groundwater Depth:	5.5 ft (sidewalk grade)
GW Flow Direction:	Historically groundwater flow direction was to the west, but during the first quarter groundwater sampling event the groundwater flow direction was inconclusive
Monitoring Results:	No product was detected within any of the monitoring wells.
Sampling Results:	VOCs were detected above NYSDEC GQS in all three of the monitoring wells sampled during this round.

OXIDANT INJECTIONS:

No chemical oxidant injections were performed during this period. Chemical Oxidant Injections were last performed on July 5, 2016.

LIQUID LEVEL MONITORING:

Depths to water readings were taken from the 3 monitoring wells with an electronic interface meter prior to purging the wells for sampling. As previously noted, no Liquid Phase Hydrocarbons (LPH) was detected in any of the monitoring wells or injections points during this quarter.

Groundwater elevation as, determined from the depth to water readings and casing elevation, was used to approximate groundwater contours and the groundwater flow direction for the site (**Figure 2)**. Groundwater elevation details are provided in **Table 1.** Historically groundwater flow direction was to the west, but during the first quarter groundwater sampling event the groundwater flow direction was inconclusive (**Figure 3**).

GROUNDWATER SAMPLING:

The 1Q18 groundwater sampling event was performed on March 23, 2018. The groundwater samples were collected from 15MW1, 15MW2 and I5MW3 in accordance with the low-flow groundwater sampling procedures outlined within the SMP. See (**Figure 1)** for the location of all site monitoring wells and chemical oxidant injection wells. A copy of each of the Well Purging-Field Water Quality Measurements Form is attached as (**Appendix A)**. The groundwater samples were picked up by laboratory dispatched courier and delivered to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). The groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) via EPA Method 8260.

Copies of the laboratory reports are attached as (**Appendix B)**. The laboratory results are summarized and compared to their appropriate standards/criteria in **(Table 2)** and to previous sampling events in **(Table 2A-2C)**.

GROUNDWATER SAMPLING RESULTS:

15MW1 – Total VOC concentrations within 15MW1 have showed a decrease from 50.45 µg/L to 26.87 µg/L and CVOC concentrations have shown a decrease from 48.65 µg/L to 24.79 µg/L, since the 4Q17 sampling event.

15MW2 **–** Total VOC concentrations within 15MW2 have showed a decrease from 66.63 µg/L to 42.67 µg/L and CVOC concentrations have shown a decrease from 65.90 µg/L to 33.27 µg/L, since the 4Q17 sampling event.

15MW3 **-** Total VOC concentrations within 15MW3 have showed a decrease from 71.1 µg/L to 28.64 µg/L and CVOC concentrations have shown a decrease from 70 µg/L to 28.04 µg/L, since the 4Q17 sampling event.

GROUNDWATER VOC CONCENTRATION TRENDS:

As depicted in the concentration graphs **(Graphs 1-3)**, remedial efforts from 2015 through 2016 resulted in a significant reduction in **C**VOC concentrations in the current focus area as defined by wells 15MW1, 15MW2 and 15MW3. The total VOC concentration within 15MW1 decreased during this sampling event which followed an overall decreasing trend. The CVOC concentration within 15MW1 decreased during this sampling event, with Vinyl Chloride and cis-1,2-Dichloroethene remaining above NYSDEC GQS. The total VOC concentration within 15MW2 decreased during this sampling event which followed an overall decreasing trend, except for the 2Q17 sampling event which had an increase in Petroleum VOC concentrations. The CVOC concentration within 15MW2 decreased during this sampling event, with Vinyl Chloride and cis-1,2-Dichloroethene remaining above NYSDEC GQS. The total VOC concentration within 15MW3 decreased during this sampling event which followed an overall decreasing trend, except for the 4Q16 and 1Q17 sampling events which showed an increase in cis-1,2-Dichloroethene, Trichloroethene and Vinyl Chloride. The CVOC concentration within 15MW3 decreased during this sampling event, with Vinyl Chloride and cis-1,2-Dichloroethene remaining above NYSDEC GQS.

Prior to building construction on the site, groundwater flow maps indicated a general west-northwesterly flow direction from the site towards the intersection of Beach 34th Street and Beach Channel Drive. During this sampling event, the groundwater flow could not be determined due to the linear configuration of the monitoring wells (**Figure 2**).

FUTURE PLANS / RECOMMENDATIONS:

Remedial efforts at the Site have been successful in significantly reducing overall chlorinated VOCs in groundwater. Water quality is expected to continue to improve over time. The rebound of chlorinated VOCs that had been observed in 15MW3 during the 4Q16 and 1Q17 sampling has continued on a downward trend since the 1Q17 sampling event.

EBC therefore requests the termination of groundwater monitoring based on the low levels of VOC concentrations observed.

TABLES

34-11 Beach Channel Drive Site
34-11 Beach Chanel Drive, Far Rockaway, NY

Table 1
Well Survey Data

Well No.	Well Diameter (in)	Total Well Depth (ft)	Screened Interval (ft)	Survey Reading	Casing Elevation	DTW 3/23/2018	DTP	PT	GW ELV 3/23/2018
15MW1	1	30	15 to 30	**5.25**	**94.75**	**5.98**	**-**	**-**	**88.77**
15MW2	1	30	15 to 30	**5.35**	**94.65**	**4.95**	**-**	**-**	**89.70**
15MW3	1	30	15 to 30	**5.37**	**94.63**	**5.61**	**-**	**-**	**89.02**

TABLE 2
34-11 Beach Channel, Far Rockaway, NY
Groundwater Sample Results
1st Quarter 2018 - March 2018

COMPOUND	NYSDEC Ambient Water Quality Standards	15MW1		15MW2		15MW3		GW Duplicate	
		3/23/2018		3/23/2018		3/23/2018		3/23/2018	
	µg/L	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 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
1,1,2-Trichloroethane	1	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,1-Dichloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2,4-Trichlorobenzene		0.29	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 0.50	0.50	< 0.50	0.50	<0.5	0.50	< 1.0	1.0
1,2-Dibromo-3-Chloropropane	0.04	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50
1,2-Dibromoethane		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2-Dichlorobenzene	5	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0
1,2-Dichloroethane	0.6	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60
1,2-Dichloropropane	1	< 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
1,3-Dichlorobenzene		< 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
1,4-Dichlorobenzene	5	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-
2-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Hexanone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 1.0	1.0
2-Isopropyltoluene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 2.5	2.5
2,2-Dichloropropane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5
Acetone		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrolein	5	< 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
Benzene	1	**1.70**	0.70	< 0.70	0.70	**0.6**	0.70	**1.6**	0.70
Bromobenzene	5	< 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
Bromodichloromethane		< 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
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**0.31**	1.0
Carbon Tetrachloride	5	< 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
Chloroethane	5	< 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
Chloromethane	60	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**5.40**	1.0	**5.9**	1.0	**9**	1.0	**5.5**	1.0
cis-1,3-Dichloropropene		< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane	5	< 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
Dichlorodifluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethyl Benzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m/p-Xylenes	5	< 1.0	1.0	**0.54**	1.0	< 1.0	1.0	< 1.0	1.0
Methyl ethyl ketone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl tert-butyl Ether	10	**0.38**	1.0	< 1.0	1.0	< 1.0	1.0	**0.39**	1.0
Methylene Chloride	5	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 1.0	1.0	**1.5**	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
n-Propylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 1.0	1.0	**0.36**	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
sec-Butylbenzene	5	< 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
tert-Butylbenzene	5	< 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
Tetrahydrofuran (THF)		< 5.0	5.0	**7**	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**2.10**	5.0	**0.37**	5.0	**0.64**	5.0	**2**	5.0
trans-1,3-Dichloropropene	0.4	< 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
Trichloroethene	5	< 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
Trichlorotrifluoroethane		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**17**	1.0	**27**	1.0	**18**	1.0	**18**	1.0
Total Chlorinated VOC		**24.79**		**33.27**		**28.04**		**25.50**	
Total Petroleum VOC		**1.70**		**2.40**		**0.60**		**1.60**	
Total VOCs		**26.87**		**42.67**		**28.64**		**27.80**	

Notes:

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 2A
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW1

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW1																	
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L	
		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,1-Dichloroethene	5	**8.2**	5.0	**1.1**	1.0	**0.78**	1.0	< 1.0	1.0	**1.4**	5.0	**0.58**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	0.29	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 4.7	4.7	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 2.5	2.5	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4**	1.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	**3.5**	5.0	**4.3**	5.0	< 5.0	5.0	< 25	25	**5.7**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.1	0.70	**0.84**	0.70	**0.25**	0.70	< 1.3	1.3	**0.56**	0.70	**1.1**	0.70	**1.8**	0.70	**1.70**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 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	< 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	**0.29**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0	< 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	**0.74**	5.0	< 5.0	5.0	< 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	**6,000**	400	**300**	20	**230**	10	**51**	5.0	**690**	13	**300**	20	**76**	10	**17**	1.0	**5.40**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.38**	1.0	**0.5**	1.0	**0.38**	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.32**	1.0	**0.43**	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**220**	100	**22**	5.0	**9.7**	5.0	**4.7**	5.0	**11**	5.0	**6.7**	5.0	**3.3**	5.0	**4.3**	5.0	**2.10**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**11**	5.0	< 1.0	1.0	**0.3**	1.0	**0.37**	1.0	< 5.0	5.0	**0.26**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**4,900**	400	**420**	20	**130**	10	**80**	2.5	**320**	13	**160**	20	**100**	10	**27**	1.0	**17**	1.0
CVOCs		**11,139.20**		**743.10**		**371.52**		**140.07**		**1,022.40**		**467.83**		**179.30**		**48.65**		**24.79**	
PVOCs		**0.0**		**1.10**		**0.84**		**0.25**		**0.00**		**0.56**		**1.42**		**1.80**		**1.70**	
Total VOCs		**11,139.20**		**747.70**		**376.66**		**140.32**		**1,022.40**		**474.09**		**181.10**		**50.45**		**26.87**	

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

TABLE 2B
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW2

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW2																	
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L	
		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 0.25	0.25
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 0.50	0.50
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 10	10	< 2.5	2.5	< 0.50	0.50	< 0.25	0.25
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 4.7	4.7	< 1.0	1.0	< 0.60	0.60
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 10	10	< 2.5	2.5	< 0.60	0.60	< 1.0	1.0
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4.40**	1.0	< 1.0	1.0	< 5.0	5.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 5.0	5.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 13	13
Acetone		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	**17.00**	25	**16**	5.0	< 5.0	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.10	0.70	**0.80**	0.70	**0.77**	7.0	**0.74**	0.70	< 5.1	5.0	< 1.3	1.3	**0.38**	0.70	< 0.70	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 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	< 50	50	< 25	25	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 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	< 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	< 7.0	7.0	< 7.0	7.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**1400**	5.0	**25**	1.0	**18**	1.0	**10**	5.0	**5.50**	1.0	**12**	20	**440**	20	**25**	1.0	**5.9**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**4600**	400	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**28**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	0.26	1.0	< 1.0	1.0	**28,000**	######	< 5.0	5.0	**0.39**	1.0	**0.54**	1.0
Methyl Ethyl Ketone (2-Butanone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	**3**	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	**1.5**	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	**0.86**	1.0	**0.71**	1.0	**0.95**	1.0	< 1.0	1.0	**10,000**	400	< 5.0	5.0	**0.34**	1.0	**0.36**	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 25	25	< 5.0	5.0	**7**	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**32**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**14**	5.0	**5.50**	5.0	**4.60**	5.0	**5.10**	5.0	**5.10**	5.0	< 5.0	5.0	**6.40**	25	**1.9**	5.0	**0.37**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**14**	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**570**	5.0	**240**	20	**160**	10	**43**	2.0	**1.10**	1.0	< 5.0	5.0	**480**	20	**39**	20	**27**	1.0
CVOCs		**1,998.00**		**270.50**		**182.60**		**62.50**		**11.70**		**12.00**		**926.40**		**65.90**		**33.27**	
PVOCs		**0.0**		**1.96**		**1.51**		**1.98**		**0.74**		**42,660.00**		**0.0**		**0.73**		**2.40**	
Total VOCs		**1,998.00**		**272.46**		**184.11**		**64.48**		**12.44**		**42,672.00**		**943.40**		**66.63**		**42.67**	

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

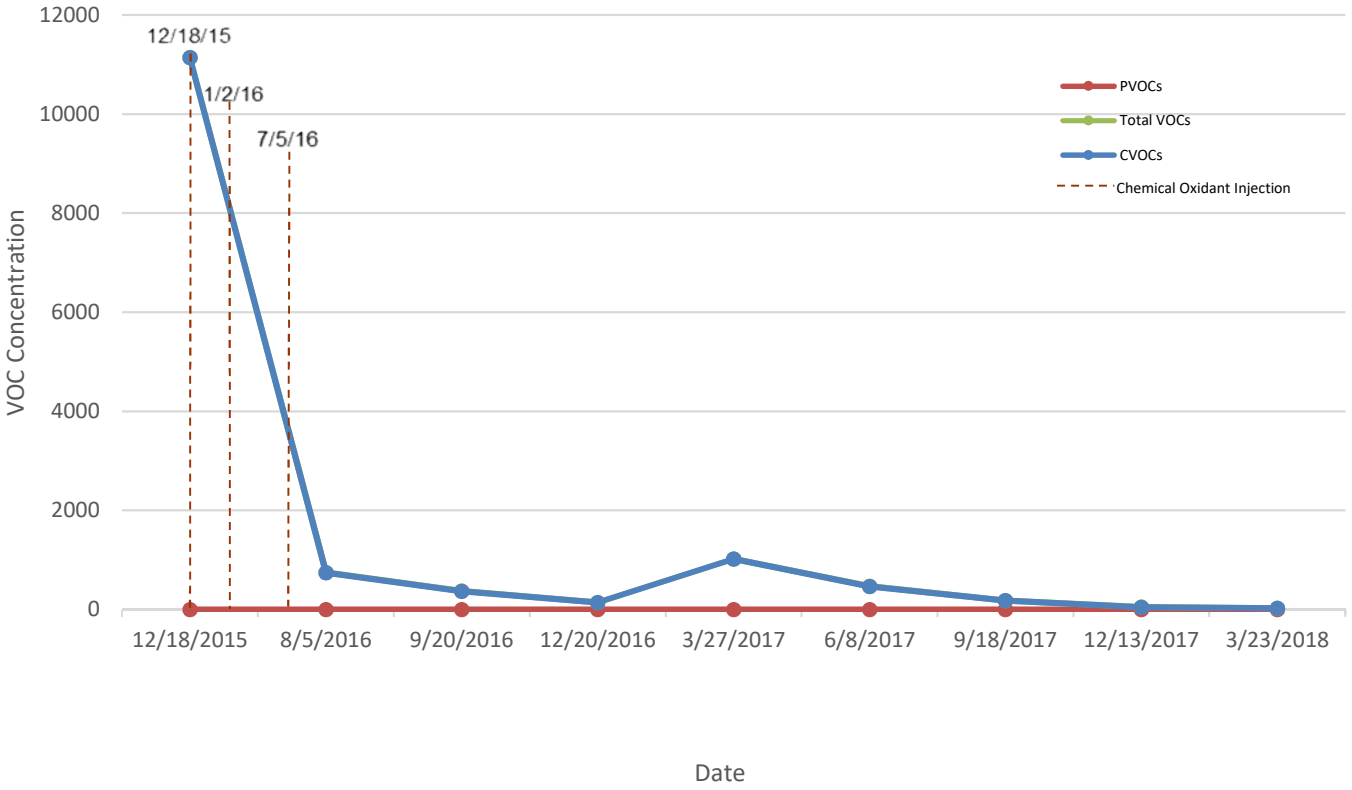
TABLE 2C
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW3

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW3																	
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L	
		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**51**	5.0	**110**	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2,4-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.32**	1.0	< 1.0	1.0	<0.5	0.50
1,2-Dibromo-3-chloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 10	10	< 10	10	-	-	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2-Dichlorobenzene	5	< 4.0	4.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60
1,2-Dichloroethane	0.6	< 3.0	3.0	< 0.60	0.60	< 0.60	0.60	< 10	10	< 10	10	-	-	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		**15**	25	< 5.0	5.0	**2.7**	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrolein		< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	**7.5**	3.5	0.49	0.70	**0.75**	0.70	< 5.0	5.0	< 5.0	5.0	-	-	**2.2**	0.70	**1.1**	0.70	**0.6**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	**2.3**	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.29**	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	**20**	25	< 5.0	5.0	< 5.0	5.0	< 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	< 7.0	7.0	< 7.0	7.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	0.3	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.41**	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**430**	20	**72**	10	**24**	1.0	**11,000**	100	**21,000**	250	-	-	**29**	20	**26**	1.0	**9**	1.0
cis-1,3-Dichloropropene		< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.3**	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 4.0	4.0	-	-	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.27**	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.33**	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 20	20	-	-	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**1.7**	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.34**	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	**2.5**	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**11**	25	**1**	5.0	**0.96**	5.0	**26**	5.0	**65**	5.0	-	-	**0.89**	5.0	**1**	5.0	**0.64**	5.0
trans-1,3-Dichloropropene	0.4	< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**1,200**	100	**2,300**	50	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**150**	20	**49**	10	**18**	1.0	**3,900**	100	**5,600**	50	-	-	**24**	20	**43**	20	**18**	1.0
CVOCs		**611.0**		**122.3**		**43**		**16,177**		**29,075**		**-**		**54.3**		**70**		**28.04**	
PVOCs		**10.0**		**0.5**		**0.8**		**0.0**		**0.0**		**-**		**5.5**		**1.1**		**0.60**	
Total VOCs		**638.3**		**122.8**		**46.4**		**16,177**		**29,075**		**-**		**60.1**		**71.1**		**28.64**	

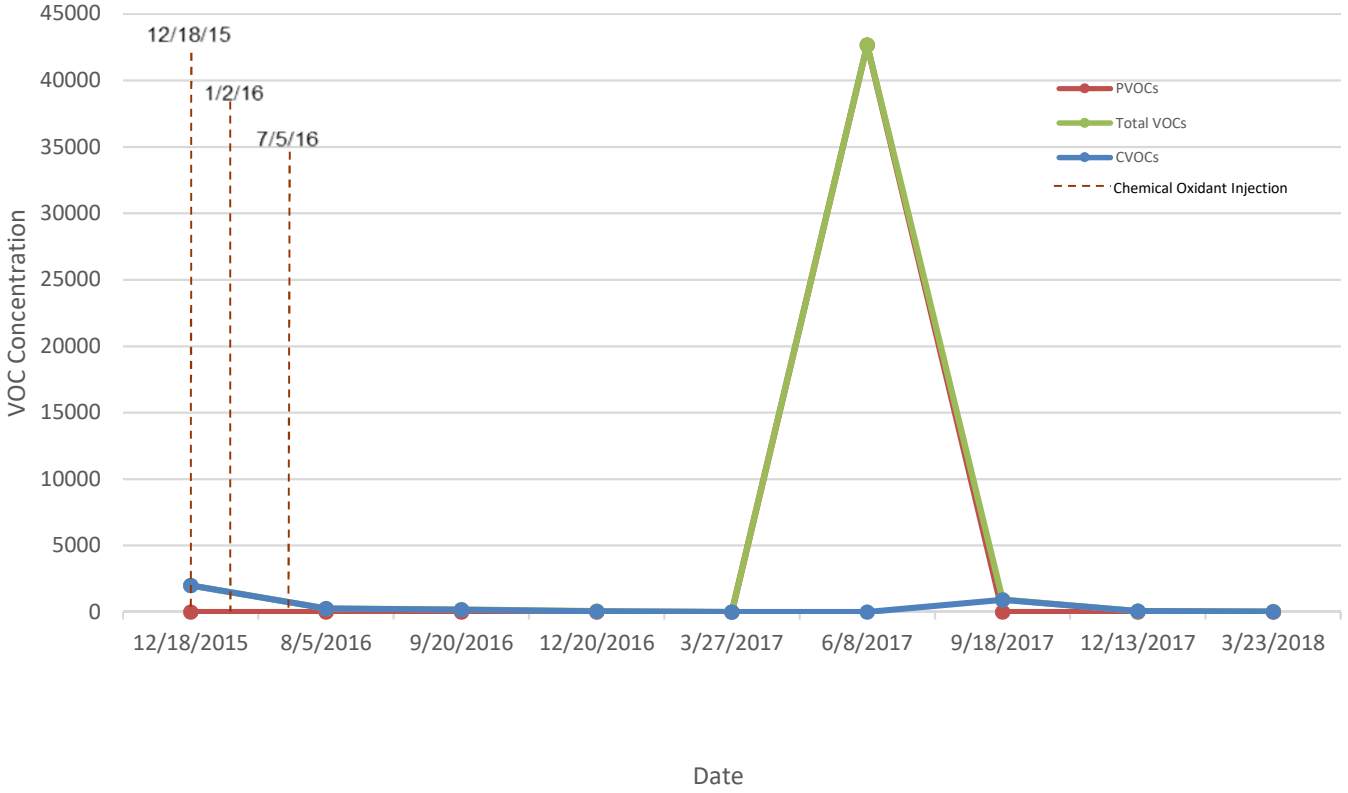
Notes:
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

GRAPHS

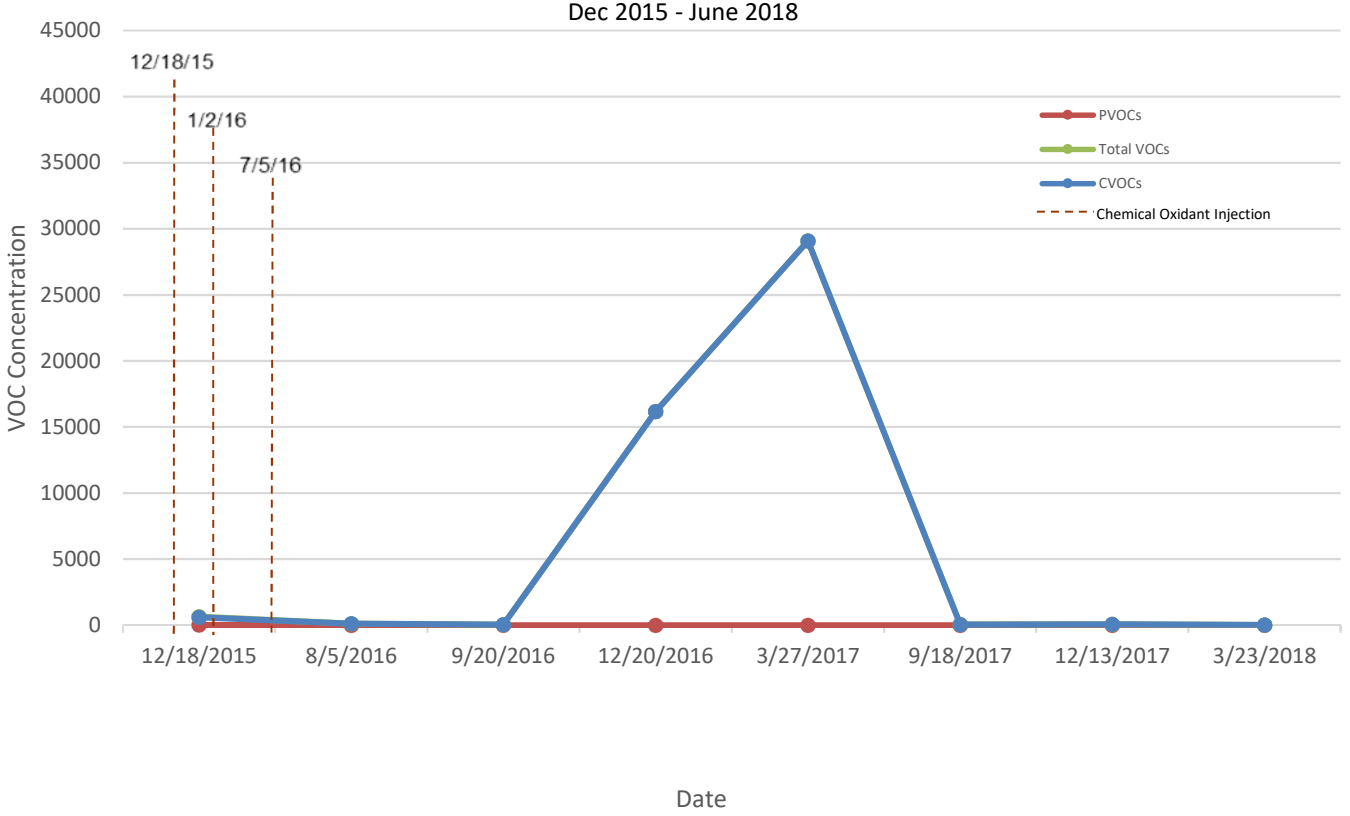
Graph 1
15MW1 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - June 2018



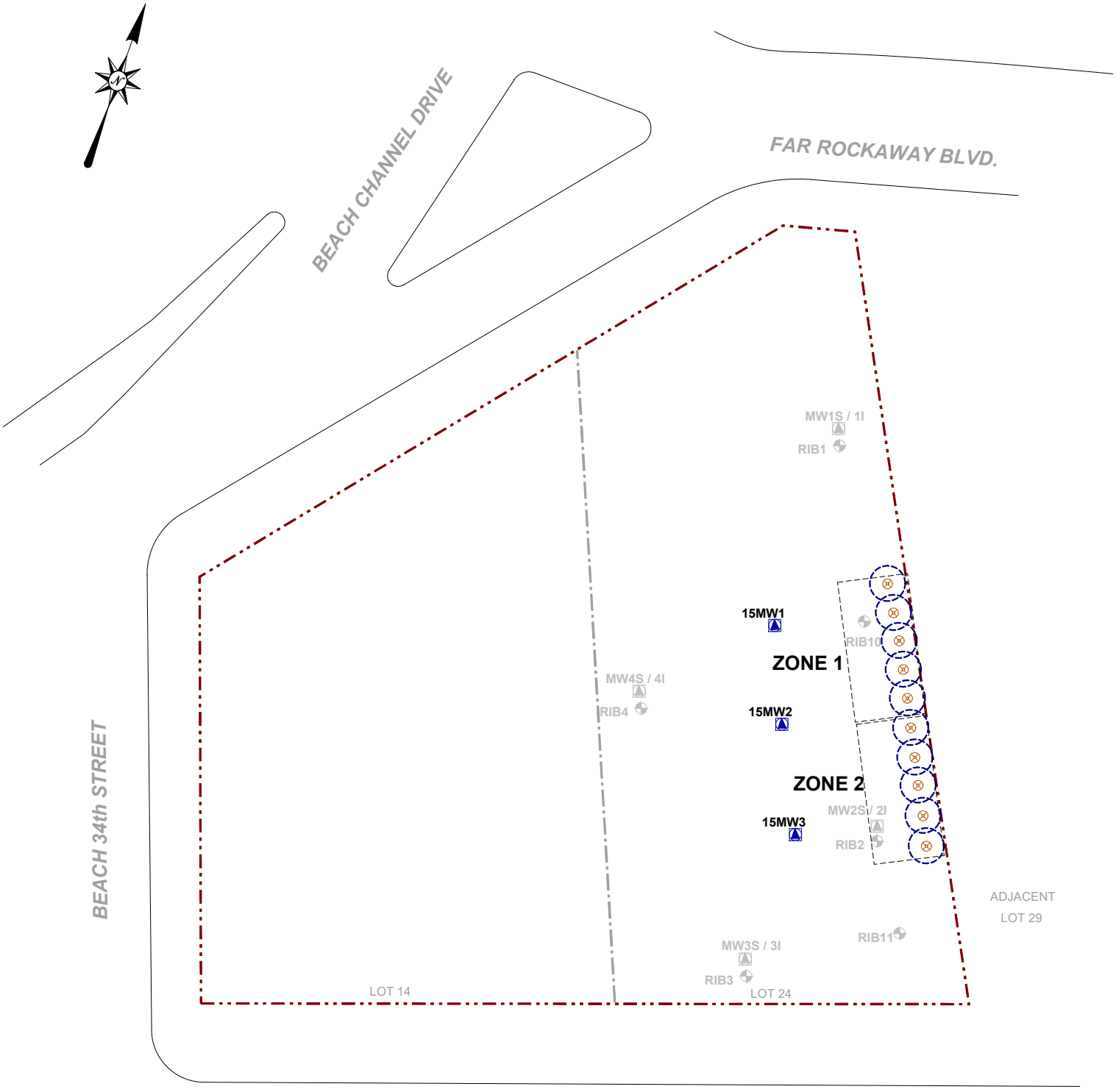
Graph 2
15MW2 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - June 2018



Graph 3
15MW3 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - June 2018



FIGURES



SCALE

0 20 40

1 inch = 40 feet

KEY

- Site Boundary
- MWx — RI Monitoring Well
- RIBx — RI Soil Boring
- 15MWx — ISCO Performance Monitoring Well
- ROI (5 ft) — Oxidant Injection Location

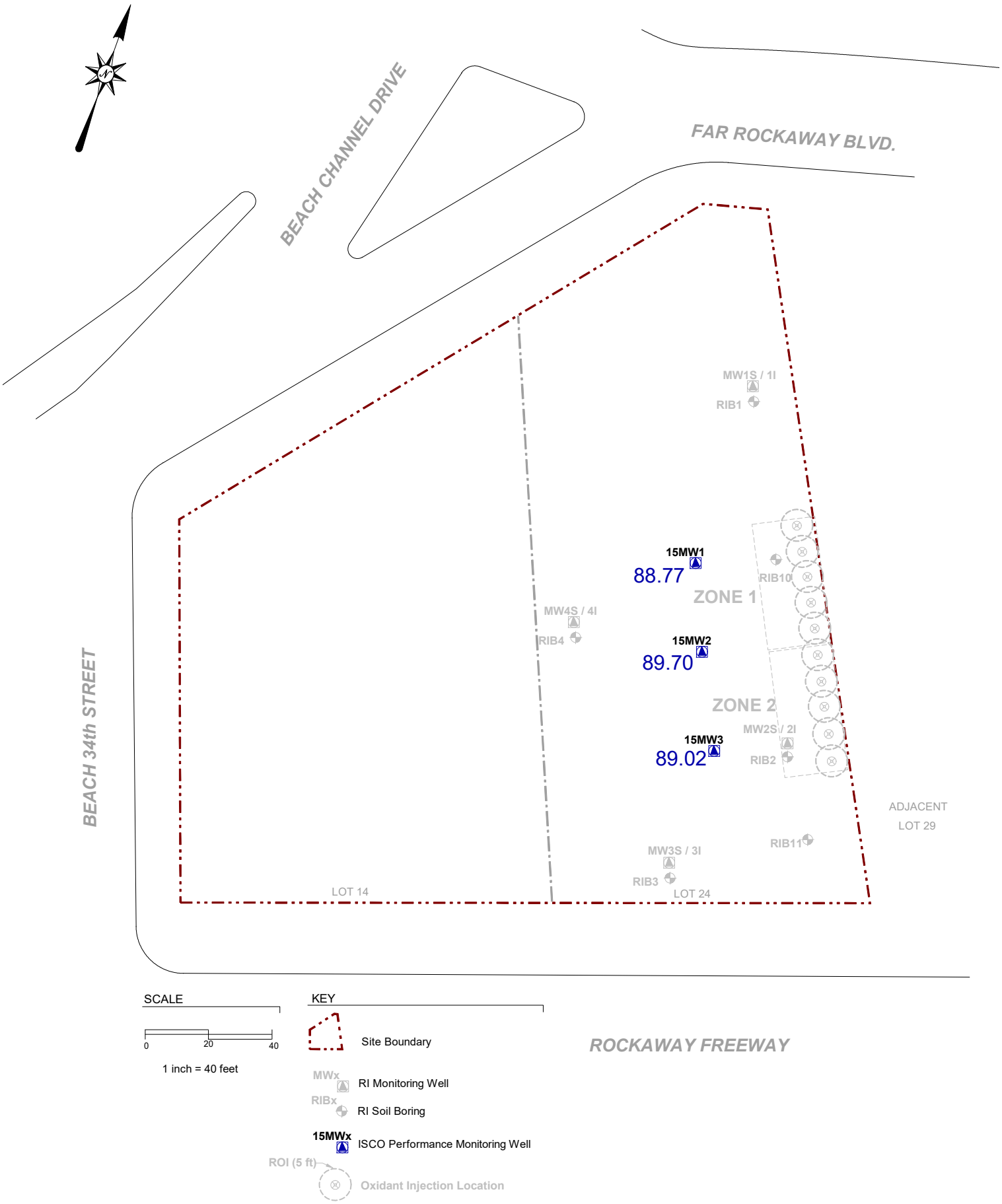
EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 1

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Injection and Monitoring Well Locations



EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 2

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Groundwater Elevation Map

LEGEND:

- SHALLOW WELLS WITH GROUNDWATER RELATIVE ELEVATION (FEET) — MW-1S (15.86)
- GROUNDWATER FLOW DIRECTION
- 16.0 — WATER TABLE CONTOURS (WESTERN WELLS)
- 16.1 — WATER TABLE CONTOURS (EASTERN WELLS)

FPM GROUP

FIGURE 3
JANUARY 2015
SHALLOW GROUNDWATER
RELATIVE ELEVATION CONTOURS

34-11 BEACH CHANNEL DRIVE SITE
FAR ROCKAWAY, QUEENS, NEW YORK

Drawn By: H.C.	Checked By: S.D.	Date 2/9/2015

H:\ALPROF\RI FIGURES\JANUARY 2015 SHALLOW GW ELEV.dwg, 2/9/2015 2:36:37 PM, Letter

APPENDIX A

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORMS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive,

Well I.D.: [illegible]

Well Depth (from TOC): 29.52'

Static Water Level (from TOC): 5.98

Height of Water in Well: 23.54

Gallons of Water per Well Volume: x 3 2.35

Flow Rate: 400ml/min.

Date: 3/23/18

Equipment: Horiba, Peristaltic Pump

Time	Pump Rate	Gal. Removed	Temp. (deg. C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS	Comments
12:58	400 ml/min	0.0	4.4	7.05	186	5.53	0.0	2.37	3.83	Black
1:00		0.33	13.95	6.90	4	6.30	0.0	0.0	3.96	Brown/Grey
1:05		0.8	14.57	6.94	-8	6.14	0.0	0.0	3.88	Grey, odor
1:10		1.3	14.81	6.98	-6	6.27	499	0.0	3.95	gravel to clear
1:15		1.9	15.27	6.96	-6	6.23	403	0.0	3.92	clear
1:20	↓	2.4	15.1	6.96	-8	6.14	279	0.0	3.90	clear
										samples taken

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive,

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW2

Date: 3/23/18

Well Depth (from TOC): 29.59

Static Water Level (from TOC): 4.95

Height of Water in Well: 18.59'

Gallons of Water per Well Volume: x3 1.85

Equipment: Horiba; peristaltic pump

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	Temp. (deg. C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS	Comments
12:32	400 ml/min	0.0	16.59	7.14	71	0.004	429	10.25	0.03	Black
12:35		0.4	17.11	7.04	32	0.003	369	9.29	0.002	Black
12:40		0.8	16.50	7.69	-20	0.605	0.0	0.0	0.380	Black
12:45	↓	1.3	13.56	7.88	-31	0.582	0.0	0.0	0.369	Black
12:50	400 ml/min	1.9	14.55	7.47	-32	0.543	162	0.0	0.348	
										4 samples taken

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW3

Date: 3/23/18

Well Depth (from TOC): 29.65

Equipment: Horiba & peristaltic Pump

Static Water Level (from TOC): 5.61

Height of Water in Well: 24.04

Gallons of Water per Well Volume: x 3 2.40

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	Temp. (deg. C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS	Comments
2:07	400ml/min	0.0	18.14	7.24	-5	5.41	0.0	3.23	33.6	Grey
2:12		0.33	16.46	6.98	23	5.80	800+	0.00	3.66	grey/clear, odor.
2:17		0.8	16.79	6.93	27	5.46	800+	0.00	3.43	clear, odor.
2:22		1.3	17.03	6.93	22	5.25	790	0.00	3.30	clear, odor
2:27		1.9	17.48	6.93	14	4.99	341	0.00	3.19	clear
2:32	↓	2.4	17.56	6.94	11	4.93	232	0.00	3.15	Clr Samples.

Note 400 ml = 0.11 gallons

APPENDIX B

Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Monday, April 09, 2018

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

Project ID: 34-11 BEACH CHANNEL DR
Sample ID#s: CA08682 - CA08686

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Environmental Business Consultants

Project: 34-11 BEACH CHANNEL DR

Laboratory Project: GCA08682

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

April 09, 2018 **SDG I.D.: GCA08682**

Environmental Business Consultants 34-11 BEACH CHANNEL DR

Methodology Summary

Volatile Organic Compounds:

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods 3rd Ed.Update III, Method 8260C and Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 (Methods 624) as printed in 40CFR part 136.

Sample Id Cross Reference

Client Id	Lab Id	Matrix
15 MW 1	CA08682	GROUND WATER
15 MW 2	CA08683	GROUND WATER
15 MW 3	CA08684	GROUND WATER
GW DUPLICATE	CA08685	GROUND WATER
TRIP BLANK	CA08686	GROUND WATER

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

April 09, 2018 **SDG I.D.: GCA08682**

Environmental Business Consultants 34-11 BEACH CHANNEL DR

Laboratory Chronicle

The samples in this delivery group were received at 3.5°C.

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CA08682	1,4-dioxane	03/23/18	03/27/18	03/27/18	MH	Y
CA08682	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08682	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08683	1,4-dioxane	03/23/18	03/27/18	03/27/18	MH	Y
CA08683	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08683	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08684	1,4-dioxane	03/23/18	03/27/18	03/27/18	MH	Y
CA08684	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08684	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08685	1,4-dioxane	03/23/18	03/27/18	03/27/18	MH	Y
CA08685	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08685	Volatiles	03/23/18	03/27/18	03/27/18	MH	Y
CA08686	1,4-dioxane	03/23/18	03/26/18	03/26/18	MH	Y
CA08686	Volatiles	03/23/18	03/26/18	03/26/18	MH	Y
CA08686	Volatiles	03/23/18	03/26/18	03/26/18	MH	Y

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

April 09, 2018

SDG I.D.: GCA08682

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/ECD 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

April 09, 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:	ML	03/23/18	
Location Code:	EBC	Received by:	SW	03/26/18	16:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA08682
Phoenix ID: CA08682

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 1

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	03/27/18	MH	SW8260C	
1,1,1-Trichloroethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trimethylbenzene	0.29	J	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Hexanone	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
2-Isopropyltoluene	0.27	J	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
4-Methyl-2-pentanone	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 1

Phoenix I.D.: CA08682

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Benzene	1.7		0.70	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,2-Dichloroethene	5.4		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	03/27/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.38	J	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,2-Dichloroethene	2.1	J	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Vinyl chloride	17		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	102				%	1	03/27/18	MH	70 - 130 %	
% Bromofluorobenzene	89				%	1	03/27/18	MH	70 - 130 %	
% Dibromofluoromethane	111				%	1	03/27/18	MH	70 - 130 %	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 1

Phoenix I.D.: CA08682

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	92			%	1	03/27/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/27/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	03/27/18	MH	SW8260C

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.

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

Phyllis Shiller, Laboratory Director
April 09, 2018
Reviewed and Released by: Jon Carlson, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 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:	ML	03/23/18	
Location Code:	EBC	Received by:	SW	03/26/18	16:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA08682
Phoenix ID: CA08683

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 2

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	03/27/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 2

Phoenix I.D.: CA08683

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,2-Dichloroethene	5.9		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	03/27/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
m&p-Xylene	0.54	J	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
Naphthalene	1.5		1.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
o-Xylene	0.36	J	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrahydrofuran (THF)	7.0		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,2-Dichloroethene	0.37	J	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Vinyl chloride	27		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	102				%	1	03/27/18	MH	70 - 130 %	
% Bromofluorobenzene	87				%	1	03/27/18	MH	70 - 130 %	
% Dibromofluoromethane	113				%	1	03/27/18	MH	70 - 130 %	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 2

Phoenix I.D.: CA08683

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	91			%	1	03/27/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/27/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	03/27/18	MH	SW8260C

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.

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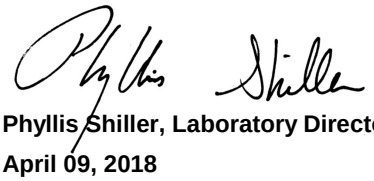

Phyllis Shiller, Laboratory Director
April 09, 2018
Reviewed and Released by: Jon Carlson, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 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:	ML	03/23/18	
Location Code:	EBC	Received by:	SW	03/26/18	16:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA08682
Phoenix ID: CA08684

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 3

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	03/27/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 3

Phoenix I.D.: CA08684

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Benzene	0.60	J	0.70	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,2-Dichloroethene	9.4		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	03/27/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,2-Dichloroethene	0.64	J	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Vinyl chloride	18		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	101				%	1	03/27/18	MH	70 - 130 %	
% Bromofluorobenzene	86				%	1	03/27/18	MH	70 - 130 %	
% Dibromofluoromethane	106				%	1	03/27/18	MH	70 - 130 %	

Ver 2

Project ID: 34-11 BEACH CHANNEL DR
Client ID: 15 MW 3

Phoenix I.D.: CA08684

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	92			%	1	03/27/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/27/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	03/27/18	MH	SW8260C

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.

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

Phyllis Shiller, Laboratory Director
April 09, 2018
Reviewed and Released by: Jon Carlson, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 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:	ML	03/23/18	
Location Code:	EBC	Received by:	SW	03/26/18	16:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA08682
Phoenix ID: CA08685

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW DUPLICATE

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	03/27/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	03/27/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	

Ver 2

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW DUPLICATE

Phoenix I.D.: CA08685

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	
Benzene	1.6		0.70	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon Disulfide	0.31	J	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,2-Dichloroethene	5.5		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	03/27/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.39	J	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	03/27/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	03/27/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,2-Dichloroethene	2.0	J	5.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	03/27/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	03/27/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
Vinyl chloride	18		1.0	0.25	ug/L	1	03/27/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	102				%	1	03/27/18	MH	70 - 130 %	
% Bromofluorobenzene	87				%	1	03/27/18	MH	70 - 130 %	
% Dibromofluoromethane	112				%	1	03/27/18	MH	70 - 130 %	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: GW DUPLICATE

Phoenix I.D.: CA08685

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	92			%	1	03/27/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/27/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/27/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	03/27/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	03/27/18	MH	SW8260C

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.

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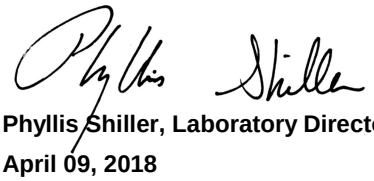


Phyllis Shiller, Laboratory Director
April 09, 2018
Reviewed and Released by: Jon Carlson, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

April 09, 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:	ML	03/23/18	
Location Code:	EBC	Received by:	SW	03/26/18	16:10
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA08682
Phoenix ID: CA08686

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANK

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	03/26/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	B
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	03/26/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	03/26/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	03/26/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	03/26/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANK

Phoenix I.D.: CA08686

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	03/26/18	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	03/26/18	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	03/26/18	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	03/26/18	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/26/18	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	03/26/18	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	03/26/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	03/26/18	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	03/26/18	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	03/26/18	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	03/26/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	03/26/18	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102			%	1	03/26/18	MH	70 - 130 %	
% Bromofluorobenzene	89			%	1	03/26/18	MH	70 - 130 %	
% Dibromofluoromethane	114			%	1	03/26/18	MH	70 - 130 %	

Ver 2

Project ID: 34-11 BEACH CHANNEL DR
Client ID: TRIP BLANK

Phoenix I.D.: CA08686

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	93			%	1	03/26/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	03/26/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	03/26/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	03/26/18	MH	SW8260C
Acrylonitrile	ND	5.0	2.5	ug/L	1	03/26/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	03/26/18	MH	SW8260C

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

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected 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:

TRIP BLANK INCLUDED.

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

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

Phyllis Shiller, Laboratory Director
April 09, 2018
Reviewed and Released by: Jon Carlson, Project Manager

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

April 09, 2018

QA/QC Data

SDG I.D.: GCA08682

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 424238 (ug/L), QC Sample No: CA08679 (CA08682, CA08683, CA08684, CA08685)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	87	91	4.5				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	82	82	0.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	88	93	5.5				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	80	86	7.2				70 - 130	30
1,1-Dichloroethane	ND	1.0	81	82	1.2				70 - 130	30
1,1-Dichloroethene	ND	1.0	82	81	1.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	83	83	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	80	95	17.1				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	80	83	3.7				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	87	95	8.8				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	88	85	3.5				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	90	89	1.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	86	91	5.6				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	90	92	2.2				70 - 130	30
1,2-Dichloroethane	ND	1.0	83	87	4.7				70 - 130	30
1,2-Dichloropropane	ND	1.0	79	83	4.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	86	83	3.6				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	86	86	0.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	84	91	8.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	89	89	0.0				70 - 130	30
1,4-dioxane	ND	100	97	104	7.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	90	90	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	85	83	2.4				70 - 130	30
2-Hexanone	ND	5.0	80	90	11.8				70 - 130	30
2-Isopropyltoluene	ND	1.0	94	90	4.3				70 - 130	30
4-Chlorotoluene	ND	1.0	87	84	3.5				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	79	88	10.8				70 - 130	30
Acetone	ND	5.0	71	80	11.9				70 - 130	30
Acrolein	ND	5.0	85	98	14.2				70 - 130	30
Acrylonitrile	ND	5.0	88	98	10.8				70 - 130	30
Benzene	ND	0.70	82	82	0.0				70 - 130	30
Bromobenzene	ND	1.0	87	86	1.2				70 - 130	30
Bromochloromethane	ND	1.0	74	81	9.0				70 - 130	30
Bromodichloromethane	ND	0.50	83	87	4.7				70 - 130	30
Bromoform	ND	1.0	87	92	5.6				70 - 130	30
Bromomethane	ND	1.0	97	92	5.3				70 - 130	30
Carbon Disulfide	ND	1.0	88	86	2.3				70 - 130	30
Carbon tetrachloride	ND	1.0	82	82	0.0				70 - 130	30
Chlorobenzene	ND	1.0	88	88	0.0				70 - 130	30
Chloroethane	ND	1.0	89	89	0.0				70 - 130	30
Chloroform	ND	1.0	80	85	6.1				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	1.0	85	83	2.4				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	81	82	1.2				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	83	88	5.8				70 - 130	30
Dibromochloromethane	ND	0.50	89	95	6.5				70 - 130	30
Dibromomethane	ND	1.0	80	85	6.1				70 - 130	30
Dichlorodifluoromethane	ND	1.0	95	96	1.0				70 - 130	30
Ethylbenzene	ND	1.0	88	86	2.3				70 - 130	30
Hexachlorobutadiene	ND	0.40	96	89	7.6				70 - 130	30
Isopropylbenzene	ND	1.0	87	84	3.5				70 - 130	30
m&p-Xylene	ND	1.0	81	79	2.5				70 - 130	30
Methyl ethyl ketone	ND	5.0	73	84	14.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	87	94	7.7				70 - 130	30
Methylene chloride	ND	1.0	79	83	4.9				70 - 130	30
Naphthalene	ND	1.0	90	100	10.5				70 - 130	30
n-Butylbenzene	ND	1.0	90	86	4.5				70 - 130	30
n-Propylbenzene	ND	1.0	88	83	5.8				70 - 130	30
o-Xylene	ND	1.0	85	85	0.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	89	84	5.8				70 - 130	30
sec-Butylbenzene	ND	1.0	90	85	5.7				70 - 130	30
Styrene	ND	1.0	86	87	1.2				70 - 130	30
tert-butyl alcohol	ND	10	102	104	1.9				70 - 130	30
tert-Butylbenzene	ND	1.0	86	83	3.6				70 - 130	30
Tetrachloroethene	ND	1.0	82	82	0.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	77	89	14.5				70 - 130	30
Toluene	ND	1.0	83	83	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	83	83	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	82	87	5.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	109	5.7				70 - 130	30
Trichloroethene	ND	1.0	83	83	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	87	87	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	100	98	2.0				70 - 130	30
Vinyl chloride	ND	1.0	85	84	1.2				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	101	100	1.0				70 - 130	30
% Bromofluorobenzene	86	%	96	97	1.0				70 - 130	30
% Dibromofluoromethane	106	%	93	100	7.3				70 - 130	30
% Toluene-d8	92	%	99	99	0.0				70 - 130	30

Comment:

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

QA/QC Batch 424103 (ug/L), QC Sample No: CA08681 (CA08686)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	91	95	4.3				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	91	95	4.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	92	96	4.3				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	84	84	0.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	87	89	2.3				70 - 130	30
1,1-Dichloroethene	ND	1.0	92	93	1.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	93	94	1.1				70 - 130	30
1,2,3-Trichlorobenzene	0.26 J	1.0	87	89	2.3				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	82	86	4.8				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	92	98	6.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	92	93	1.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	93	101	8.2				70 - 130	30

QA/QC Data

SDG I.D.: GCA08682

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dibromoethane	ND	1.0	91	93	2.2				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	91	94	3.2				70 - 130	30
1,2-Dichloroethane	ND	1.0	89	92	3.3				70 - 130	30
1,2-Dichloropropane	ND	1.0	86	87	1.2				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	90	92	2.2				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	89	90	1.1				70 - 130	30
1,3-Dichloropropane	ND	1.0	87	92	5.6				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	90	92	2.2				70 - 130	30
1,4-dioxane	ND	100	100	110	9.5				70 - 130	30
2,2-Dichloropropane	ND	1.0	95	97	2.1				70 - 130	30
2-Chlorotoluene	ND	1.0	89	88	1.1				70 - 130	30
2-Hexanone	ND	5.0	85	93	9.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	100	100	0.0				70 - 130	30
4-Chlorotoluene	ND	1.0	90	91	1.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	85	89	4.6				70 - 130	30
Acetone	ND	5.0	81	84	3.6				70 - 130	30
Acrolein	ND	5.0	90	102	12.5				70 - 130	30
Acrylonitrile	ND	5.0	96	102	6.1				70 - 130	30
Benzene	ND	0.70	87	88	1.1				70 - 130	30
Bromobenzene	ND	1.0	90	92	2.2				70 - 130	30
Bromochloromethane	ND	1.0	79	79	0.0				70 - 130	30
Bromodichloromethane	ND	0.50	90	91	1.1				70 - 130	30
Bromoform	ND	1.0	90	91	1.1				70 - 130	30
Bromomethane	ND	1.0	115	115	0.0				70 - 130	30
Carbon Disulfide	ND	1.0	98	100	2.0				70 - 130	30
Carbon tetrachloride	ND	1.0	93	96	3.2				70 - 130	30
Chlorobenzene	ND	1.0	89	91	2.2				70 - 130	30
Chloroethane	ND	1.0	98	102	4.0				70 - 130	30
Chloroform	ND	1.0	89	87	2.3				70 - 130	30
Chloromethane	ND	1.0	98	100	2.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	85	86	1.2				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	88	89	1.1				70 - 130	30
Dibromochloromethane	ND	0.50	94	100	6.2				70 - 130	30
Dibromomethane	ND	1.0	85	87	2.3				70 - 130	30
Dichlorodifluoromethane	ND	1.0	119	123	3.3				70 - 130	30
Ethylbenzene	ND	1.0	89	92	3.3				70 - 130	30
Hexachlorobutadiene	ND	0.40	100	99	1.0				70 - 130	30
Isopropylbenzene	ND	1.0	91	91	0.0				70 - 130	30
m&p-Xylene	ND	1.0	84	86	2.4				70 - 130	30
Methyl ethyl ketone	ND	5.0	83	81	2.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	92	98	6.3				70 - 130	30
Methylene chloride	ND	1.0	82	87	5.9				70 - 130	30
Naphthalene	ND	1.0	96	99	3.1				70 - 130	30
n-Butylbenzene	ND	1.0	95	95	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	92	92	0.0				70 - 130	30
o-Xylene	ND	1.0	88	90	2.2				70 - 130	30
p-Isopropyltoluene	ND	1.0	93	93	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	97	97	0.0				70 - 130	30
Styrene	ND	1.0	88	91	3.4				70 - 130	30
tert-butyl alcohol	ND	10	102	111	8.5				70 - 130	30
tert-Butylbenzene	ND	1.0	91	93	2.2				70 - 130	30
Tetrachloroethene	ND	1.0	87	88	1.1				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	81	86	6.0				70 - 130	30

QA/QC Data

SDG I.D.: GCA08682

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toluene	ND	1.0	87	87	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	87	90	3.4				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	87	89	2.3				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	106	2.9				70 - 130	30
Trichloroethene	ND	1.0	86	87	1.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	103	106	2.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	113	115	1.8				70 - 130	30
Vinyl chloride	ND	1.0	99	102	3.0				70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	99	100	1.0				70 - 130	30
% Bromofluorobenzene	90	%	99	101	2.0				70 - 130	30
% Dibromofluoromethane	113	%	95	92	3.2				70 - 130	30
% Toluene-d8	93	%	100	99	1.0				70 - 130	30

Comment:

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

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

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

Phyllis Shiller, Laboratory Director
April 09, 2018

Monday, April 09, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCA08682 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA08682	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.7	0.70	0.7	0.7	ug/L
CA08682	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	17	1.0	2	2	ug/L
CA08682	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	5.4	1.0	5	5	ug/L
CA08682	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA08682	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA08682	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA08682	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	17	1.0	2	2	ug/L
CA08682	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.7	0.70	1	1	ug/L
CA08682	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria (SPLP)	17	1.0	2	2	ug/L
CA08682	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria (SPLP)	1.7	0.70	1	1	ug/L
CA08682	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA08682	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA08682	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA08682	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria (SPLP)	5.4	1.0	5	5	ug/L
CA08683	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	27	1.0	2	2	ug/L
CA08683	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	5.9	1.0	5	5	ug/L
CA08683	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA08683	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	27	1.0	2	2	ug/L
CA08683	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA08683	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA08683	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA08683	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA08683	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria (SPLP)	5.9	1.0	5	5	ug/L
CA08683	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria (SPLP)	27	1.0	2	2	ug/L
CA08683	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA08684	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	18	1.0	2	2	ug/L
CA08684	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	18	1.0	2	2	ug/L
CA08684	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	9.4	1.0	5	5	ug/L
CA08684	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA08684	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA08684	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA08684	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA08684	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria (SPLP)	9.4	1.0	5	5	ug/L
CA08684	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria (SPLP)	18	1.0	2	2	ug/L
CA08684	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA08684	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA08685	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.6	0.70	0.7	0.7	ug/L
CA08685	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	18	1.0	2	2	ug/L
CA08685	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	18	1.0	2	2	ug/L
CA08685	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	5.5	1.0	5	5	ug/L

Monday, April 09, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCA08682 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA08685	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.6	0.70	1	1	ug/L
CA08685	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA08685	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA08685	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA08685	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA08685	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA08685	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA08685	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria (SPLP)	5.5	1.0	5	5	ug/L
CA08685	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria (SPLP)	18	1.0	2	2	ug/L
CA08685	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria (SPLP)	1.6	0.70	1	1	ug/L
CA08686	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA08686	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA08686	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA08686	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA08686	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA08686	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	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

April 09, 2018

SDG I.D.: GCA08682

The samples in this delivery group were received at 3.5°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

August 20, 2018

Ms. Alicia A Barraza
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
Division of Spill Prevention and Response Programs
47-40 21st Street, Long Island City, New York 11101

Re: Quarterly Groundwater Sampling Report
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Queens, New York
NYSDEC BCP Number: C241141

Dear Ms. Barraza:

Please find the enclosed Quarterly Groundwater Sampling Report for the above referenced project for the first quarter of 2018. In accordance with the Site Management Plan (SMP), a round of groundwater sampling was performed on June 15, 2018 for 15MW1, 15MW2 and 15MW3.

If you have any questions or comments regarding the attached report, please do not hesitate to contact me.

Very truly yours,

Thomas Gallo
Environmental Geologist

Kevin Waters
Project Manager

Cc: J. O'Connell, NYSDEC
A. Arker, Bedford Park Associates LLC
S. Arker, Bedford Park Associates LLC
C. Sosik, EBC
A. Czemerinski, AMC
J. Brooks, Phillips Nizer

34-11 BEACH CHANNEL DRIVE SITE
NYSDEC BCP Number C241141
Project Status Report
2018

Reporting Summary

Report Date:	August 20, 2018
Reporting Period:	2nd Quarter of 2018
Site Status:	Building is under construction, currently working on interior
Work Performed this Quarter:	June 15, 2018 – Groundwater sampling events performed on the three on-site monitoring wells.
Remediation Status:	No chemical oxidant events were performed during this period. A chemical oxidant injection was last performed on December 18, 2015, January 2, 2016 and July 5,2016.

Monitoring Program Summary

No. of Wells:	3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Gauging Frequency:	Quarterly for the three monitoring wells.
Sampling Frequency:	Quarterly, 3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Reporting Frequency:	Groundwater Sampling Report (Quarterly).
Groundwater Depth:	5.5 ft (sidewalk grade)
GW Flow Direction:	Historically groundwater flow direction was to the west, but during the second quarter groundwater sampling event the groundwater flow direction was inconclusive
Monitoring Results:	No product was detected within any of the monitoring wells.
Sampling Results:	VOCs were detected above NYSDEC GQS in all three of the monitoring wells sampled during this round.

OXIDANT INJECTIONS:

No chemical oxidant injections were performed during this period. Chemical Oxidant Injections were last performed on July 5, 2016.

LIQUID LEVEL MONITORING:

Depths to water readings were taken from the 3 monitoring wells with an electronic interface meter prior to purging the wells for sampling. As previously noted, no Liquid Phase Hydrocarbons (LPH) was detected in any of the monitoring wells or injections points during this quarter.

Groundwater elevation as, determined from the depth to water readings and casing elevation, was used to approximate groundwater contours and the groundwater flow direction for the site (**Figure 2)**. Groundwater elevation details are provided in **Table 1.** Historically groundwater flow direction was to the west, but during the first quarter groundwater sampling event the groundwater flow direction was inconclusive (**Figure 3**).

GROUNDWATER SAMPLING:

The 2Q18 groundwater sampling event was performed on June 15, 2018. The groundwater samples were collected from 15MW1, 15MW2 and I5MW3 in accordance with the low-flow groundwater sampling procedures outlined within the SMP. See (**Figure 1)** for the location of all site monitoring wells and chemical oxidant injection wells. A copy of each of the Well Purging-Field Water Quality Measurements Form is attached as (**Appendix A)**. The groundwater samples were picked up by laboratory dispatched courier and delivered to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). The groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) via EPA Method 8260.

Copies of the laboratory reports are attached as (**Appendix B)**. The laboratory results are summarized and compared to their appropriate standards/criteria in (**Table 2)** and to previous sampling events in **(Table 2A-2C)**.

GROUNDWATER SAMPLING RESULTS:

15MW1 – Total VOC concentrations within 15MW1 have showed a decrease from 26.87 µg/L to 10.25 µg/L and CVOC concentrations have shown a decrease from 24.79 µg/L to 5.15 µg/L, since the 4Q17 sampling event.

15MW2 **–** Total VOC concentrations within 15MW2 have showed a decrease from 42.67 µg/L to 36.90 µg/L and CVOC concentrations have shown a decrease from 33.27 µg/L to 17.96 µg/L, since the 4Q17 sampling event.

15MW3 **-** Total VOC concentrations within 15MW3 have showed a decrease from 28.64 µg/L to 14.77 µg/L and CVOC concentrations have shown a decrease from 28.04 µg/L to 11.24 µg/L, since the 4Q17 sampling event.

GROUNDWATER VOC CONCENTRATION TRENDS:

As depicted in the concentration graphs **(Graphs 1-3)**, remedial efforts from 2015 through 2016 resulted in a significant reduction in **C**VOC concentrations in the current focus area as defined by wells 15MW1, 15MW2 and 15MW3. The total VOC concentration within 15MW1 decreased during this sampling event which followed an overall decreasing trend. The CVOC concentration within 15MW1 decreased during this sampling event, with Vinyl Chloride and cis-1,2-Dichloroethene now below NYSDEC GQS. The total VOC concentration within 15MW2 decreased during this sampling event which followed an overall decreasing trend, except for the 2Q17 sampling event which had an increase in Petroleum VOC concentrations. The CVOC concentration within 15MW2 decreased during this sampling event, with only Vinyl Chloride remaining above NYSDEC GQS. The total VOC concentration within 15MW3 decreased during this sampling event which followed an overall decreasing trend, except for the 4Q16 and 1Q17 sampling events which showed an increase in cis-1,2-Dichloroethene, Trichloroethene and Vinyl Chloride. The CVOC concentration within 15MW3 decreased during this sampling event, with Vinyl Chloride and cis-1,2-Dichloroethene remaining above NYSDEC GQS.

Prior to building construction on the site, groundwater flow maps indicated a general west-northwesterly flow direction from the site towards the intersection of Beach 34th Street and Beach Channel Drive. During this sampling event, the groundwater flow could not be determined due to the linear configuration of the monitoring wells (**Figure 2**).

FUTURE PLANS / RECOMMENDATIONS:

Remedial efforts at the Site have been successful in significantly reducing overall chlorinated VOCs in groundwater. Water quality is expected to continue to improve over time. The rebound of chlorinated VOCs that had been observed in 15MW3 during the 4Q16 and 1Q17 sampling has continued on a downward trend since the 1Q17 sampling event.

EBC therefore requests the termination of groundwater monitoring based on the low levels of VOC concentrations observed.

TABLES

34-11 Beach Channel Drive Site
34-11 Beach Chanel Drive, Far Rockaway, NY

Table 1
Well Survey Data

Well No.	Well Diameter (in)	Total Well Depth (ft)	Screened Interval (ft)	Survey Reading	Casing Elevation	DTW 6/15/2018	DTP	PT	GW ELV 6/15/2018
15MW1	1	30	15 to 30	**5.25**	**94.75**	**6.28**	**-**	**-**	**88.47**
15MW2	1	30	15 to 30	**5.35**	**94.65**	**5.33**	**-**	**-**	**89.32**
15MW3	1	30	15 to 30	**5.37**	**94.63**	**6.16**	**-**	**-**	**88.47**

TABLE 2
34-11 Beach Channel Drive, Far Rockaway, NY
Groundwater Sample Results
2nd Quarter 2018 - June 2018

COMPOUND	NYSDEC Ambient Water Quality Standards	15MW1		15MW2		15MW3		GW Duplicate	
		6/15/2018		6/15/2018		6/15/2018		6/15/2018	
	µg/L	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,3-Trichloropropane	0.04	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trichlorobenzene		0.29	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 0.50	0.50	< 0.50	0.50	<0.5	0.50	< 0.50	0.50
1,2-Dibromo-3-Chloropropane	0.04	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dibromoethane		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichlorobenzene	5	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
1,2-Dichloroethane	0.6	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichloropropane	1	< 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
1,3-Dichlorobenzene		< 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
1,4-Dichlorobenzene	5	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0
1,4-dioxane		< 100	100	< 100	100	< 100	100	< 100	100
2-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Hexanone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
2-Isopropyltoluene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
2,2-Dichloropropane	5	< 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
4-Methyl-2-Pentanone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		**3.2**	5.0	**15**	5.0	**2.8**	5.0	**3.2**	5.0
Acrolein	5	< 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
Benzene	1	**1.5**	0.70	< 0.70	0.70	**0.73**	0.70	**1.5**	0.70
Bromobenzene	5	< 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
Bromodichloromethane		< 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
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 1.0	1.0	< 1.0	1.0	< 1.0	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
Chlorobenzene	5	< 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
Chloroform	7	< 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
cis-1,2-Dichloroethene	5	**1.8**	1.0	**3.7**	1.0	**6**	1.0	**1.9**	1.0
cis-1,3-Dichloropropene		< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane	5	< 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
Dichlorodifluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethyl Benzene	5	< 1.0	1.0	**0.35**	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m/p-Xylenes	5	< 1.0	1.0	**1.1**	1.0	< 1.0	1.0	< 1.0	1.0
Methyl ethyl ketone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl tert-butyl Ether	10	**0.4**	1.0	< 1.0	1.0	< 1.0	1.0	**0.46**	1.0
Methylene Chloride	5	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 1.0	1.0	**1.7**	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
n-Propylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 1.0	1.0	**0.79**	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
sec-Butylbenzene	5	< 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
tert-Butylbenzene	5	< 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
Tetrahydrofuran (THF)		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**2.4**	5.0	**0.26**	5.0	**0.54**	5.0	**2.5**	5.0
trans-1,3-Dichloropropene	0.4	< 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
Trichloroethene	5	< 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
Trichlorotrifluoroethane		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**0.66**	1.0	**14**	1.0	**5**	1.0	**0.68**	1.0
Total Chlorinated VOC		**5.15**		**17.96**		**11.24**		**5.08**	
Total Petroleum VOC		**1.50**		**3.94**		**0.73**		**1.50**	
Total VOCs		**10.25**		**36.90**		**14.77**		**10.24**	

Notes:

RL- Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 2A
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW1

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW1																			
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L		6/15/2018 µg/L	
		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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethene	5	**8.2**	5.0	**1.1**	1.0	**0.78**	1.0	< 1.0	1.0	**1.4**	5.0	**0.58**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	0.29	1.0	0.29	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 4.7	4.7	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 2.5	2.5	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4**	1.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	**3.5**	5.0	**4.3**	5.0	< 5.0	5.0	< 25	25	**5.7**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**3.2**	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.1	0.70	**0.84**	0.70	**0.25**	0.70	< 1.3	1.3	**0.56**	0.70	**1.1**	0.70	**1.8**	0.70	**1.70**	0.70	**1.5**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 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	< 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	**0.29**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0	< 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	**0.74**	5.0	< 5.0	5.0	< 5.0	5.0	< 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	**6,000**	400	**300**	20	**230**	10	**51**	5.0	**690**	13	**300**	20	**76**	10	**17**	1.0	**5.40**	1.0	**1.8**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 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)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 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	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.38**	1.0	**0.5**	1.0	**0.38**	1.0	**0.4**	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.32**	1.0	**0.43**	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**220**	100	**22**	5.0	**9.7**	5.0	**4.7**	5.0	**11**	5.0	**6.7**	5.0	**3.3**	5.0	**4.3**	5.0	**2.10**	5.0	**2.4**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 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	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**11**	5.0	< 1.0	1.0	**0.3**	1.0	**0.37**	1.0	< 5.0	5.0	**0.26**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**4,900**	400	**420**	20	**130**	10	**80**	2.5	**320**	13	**160**	20	**100**	10	**27**	1.0	**17**	1.0	**0.66**	1.0
CVOCs		**11,139.20**		**743.10**		**371.52**		**140.07**		**1,022.40**		**467.83**		**179.30**		**48.65**		**24.79**		**5.15**	
PVOCs		**0.0**		**1.10**		**0.84**		**0.25**		**0.00**		**0.56**		**1.42**		**1.80**		**1.70**		**1.50**	
Total VOCs		**11,139.20**		**747.70**		**376.66**		**140.32**		**1,022.40**		**474.09**		**181.10**		**50.45**		**26.87**		**10.25**	

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

TABLE 2B
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW2

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW2																			
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L		6/15/2018 µg/L	
		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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 10	10	< 2.5	2.5	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 4.7	4.7	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 10	10	< 2.5	2.5	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4.40**	1.0	< 1.0	1.0	< 5.0	5.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 13	13	< 2.5	2.5
Acetone		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	**17.00**	25	**16**	5.0	< 5.0	5.0	**15**	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.10	0.70	**0.80**	0.70	**0.77**	7.0	**0.74**	0.70	< 5.1	5.0	< 1.3	1.3	**0.38**	0.70	< 0.70	0.70	< 0.70	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 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	< 50	50	< 25	25	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 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	< 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	< 7.0	7.0	< 7.0	7.0	< 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	< 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	**1400**	5.0	**25**	1.0	**18**	1.0	**10**	5.0	**5.50**	1.0	**12**	20	**440**	20	**25**	1.0	**5.9**	1.0	**3.7**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**4600**	400	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**28**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	0.26	1.0	< 1.0	1.0	**28,000**	######	< 5.0	5.0	**0.39**	1.0	**0.54**	1.0	**1.1**	1.0
Methyl Ethyl Ketone (2-Butanone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	**3**	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	**1.5**	1.0	**1.7**	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	**0.86**	1.0	**0.71**	1.0	**0.95**	1.0	< 1.0	1.0	**10,000**	400	< 5.0	5.0	**0.34**	1.0	**0.36**	1.0	**0.79**	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 25	25	< 5.0	5.0	**7**	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**32**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**14**	5.0	**5.50**	5.0	**4.60**	5.0	**5.10**	5.0	**5.10**	5.0	< 5.0	5.0	**6.40**	25	**1.9**	5.0	**0.37**	5.0	**0.26**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**14**	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**570**	5.0	**240**	20	**160**	10	**43**	2.0	**1.10**	1.0	< 5.0	5.0	**480**	20	**39**	20	**27**	1.0	**14**	1.0
CVOCs		**1,998.00**		**270.50**		**182.60**		**62.50**		**11.70**		**12.00**		**926.40**		**65.90**		**33.27**		**17.96**	
PVOCs		**0.0**		**1.96**		**1.51**		**1.98**		**0.74**		**42,660.00**		**0.0**		**0.73**		**2.40**		**3.94**	
Total VOCs		**1,998.00**		**272.46**		**184.11**		**64.48**		**12.44**		**42,672.00**		**943.40**		**66.63**		**42.67**		**36.90**	

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

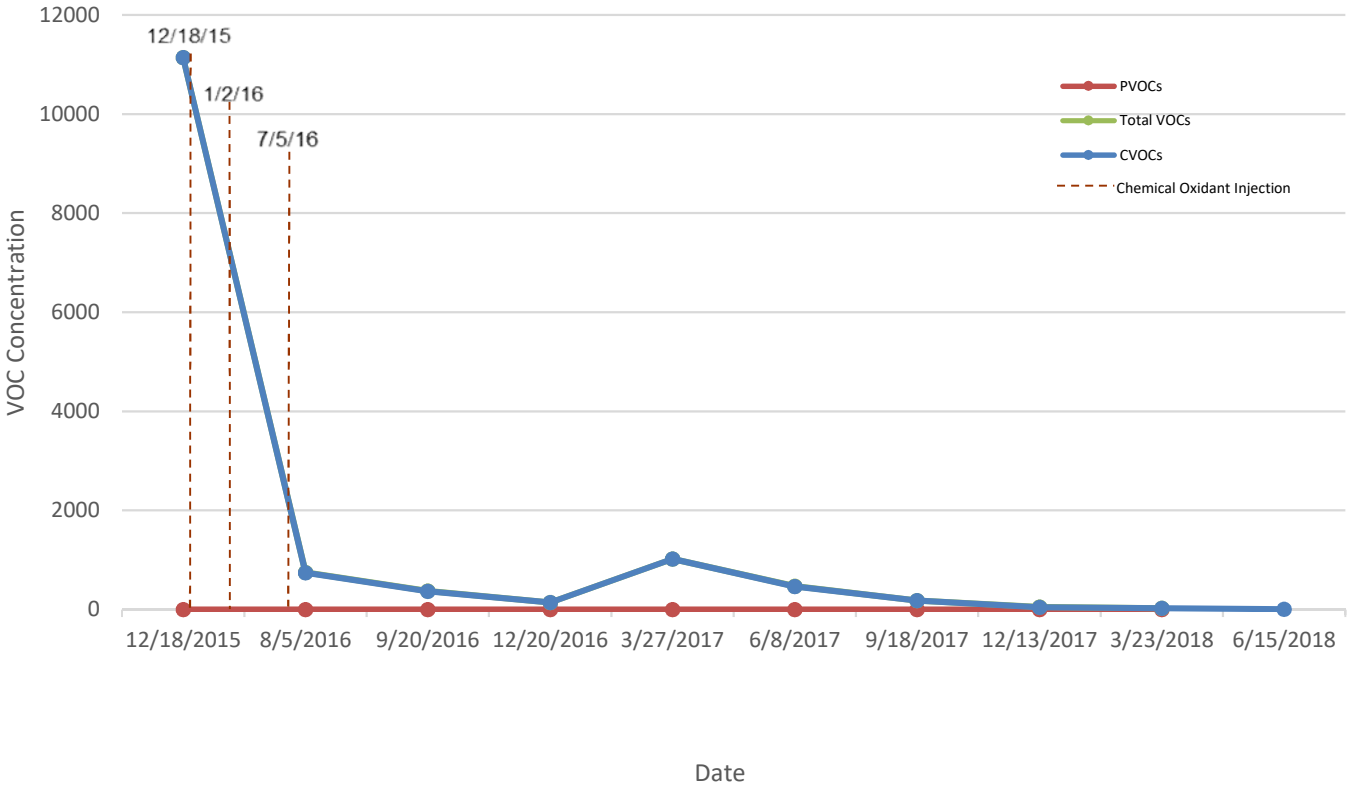
TABLE 2C
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW3

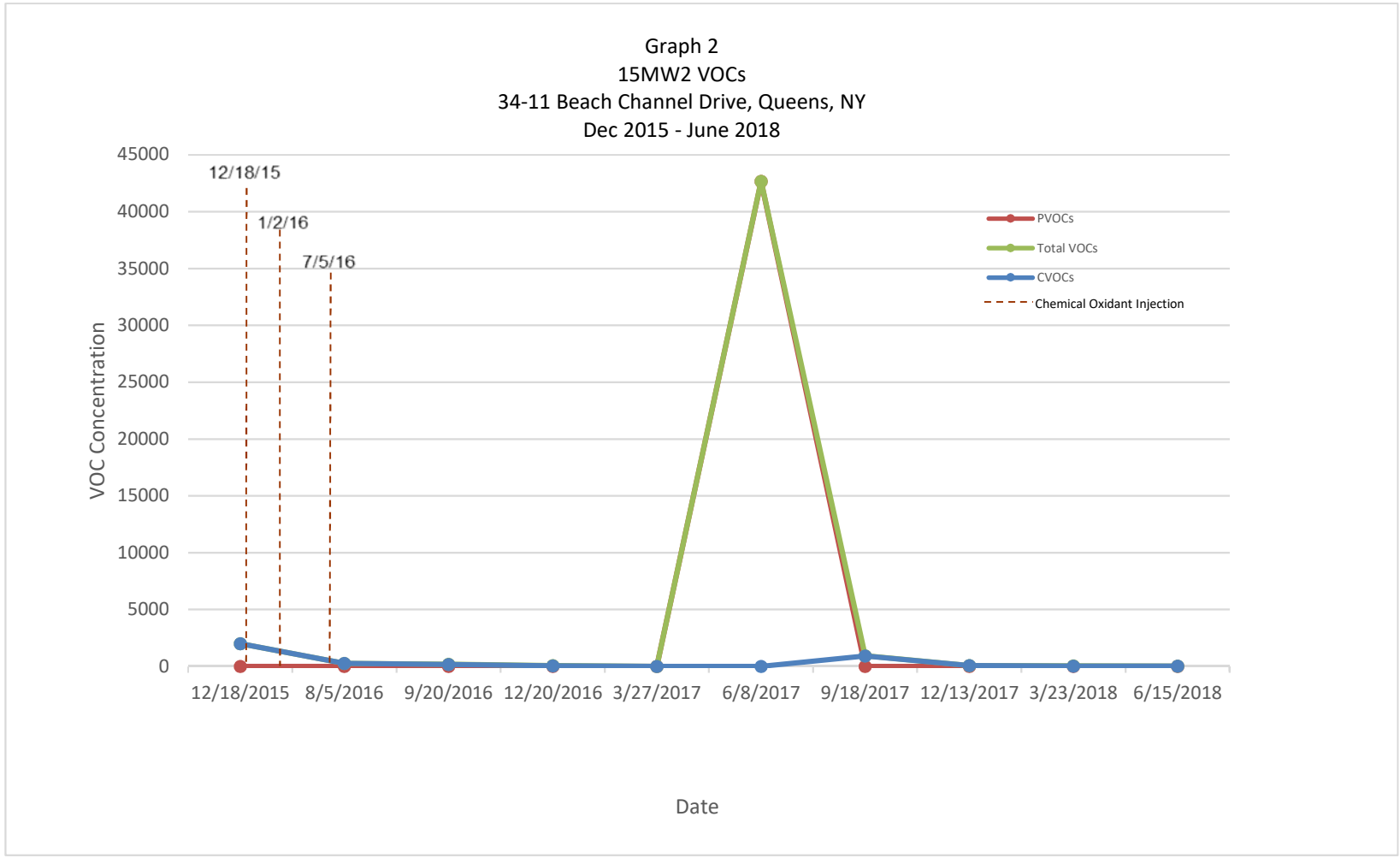
Compound	NYSDEC Groundwater Quality Standards µg/L	15MW3																			
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L		6/15/2018 µg/L	
		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**51**	5.0	**110**	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2,4-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.32**	1.0	< 1.0	1.0	<0.5	0.50	<0.5	0.50
1,2-Dibromo-3-chloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 10	10	< 10	10	-	-	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2-Dichlorobenzene	5	< 4.0	4.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60
1,2-Dichloroethane	0.6	< 3.0	3.0	< 0.60	0.60	< 0.60	0.60	< 10	10	< 10	10	-	-	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		**15**	25	< 5.0	5.0	**2.7**	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**2.8**	5.0
Acrolein		< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	**7.5**	3.5	0.49	0.70	**0.75**	0.70	< 5.0	5.0	< 5.0	5.0	-	-	**2.2**	0.70	**1.1**	0.70	**0.6**	0.70	**0.73**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 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	< 50	50	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	**2.3**	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.29**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	**20**	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 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	< 7.0	7.0	< 7.0	7.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	0.3	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.41**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**430**	20	**72**	10	**24**	1.0	**11,000**	100	**21,000**	250	-	-	**29**	20	**26**	1.0	**9**	1.0	**6**	1.0
cis-1,3-Dichloropropene		< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.3**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 4.0	4.0	-	-	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.27**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.33**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 20	20	-	-	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**1.7**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.34**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	**2.5**	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**11**	25	**1**	5.0	**0.96**	5.0	**26**	5.0	**65**	5.0	-	-	**0.89**	5.0	**1**	5.0	**0.64**	5.0	**0.54**	5.0
trans-1,3-Dichloropropene	0.4	< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**1,200**	100	**2,300**	50	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**150**	20	**49**	10	**18**	1.0	**3,900**	100	**5,600**	50	-	-	**24**	20	**43**	20	**18**	1.0	**5**	1.0
CVOCs		**611.0**		**122.3**		**43**		**16,177**		**29,075**		**-**		**54.3**		**70**		**28.04**		**11.24**	
PVOCs		**10.0**		**0.5**		**0.8**		**0.0**		**0.0**		**-**		**5.5**		**0.0**		**0.60**		**0.73**	
Total VOCs		**638.3**		**122.8**		**46.4**		**16,177**		**29,075**		**-**		**60.1**		**70**		**28.64**		**14.77**	

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

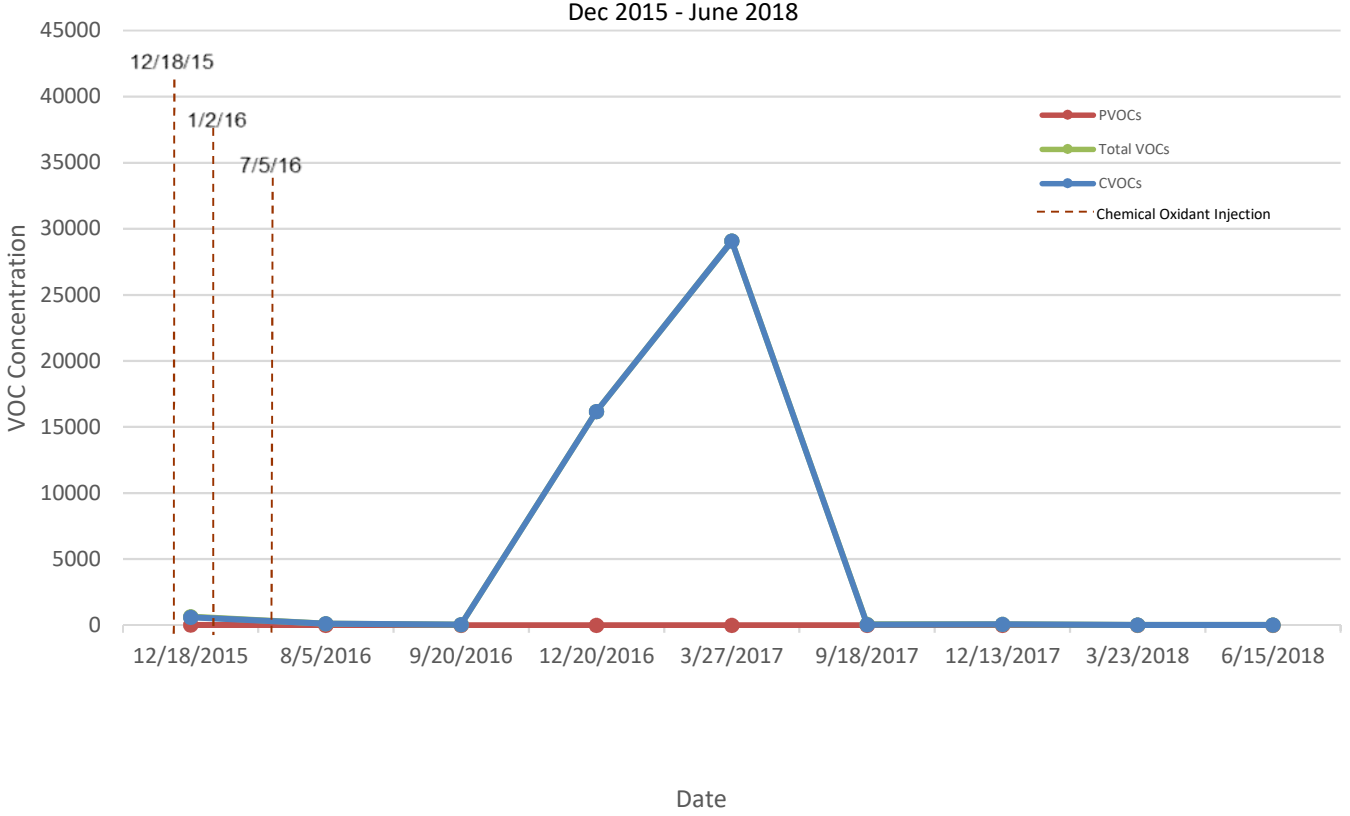
GRAPHS

Graph 1
15MW1 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - June 2018

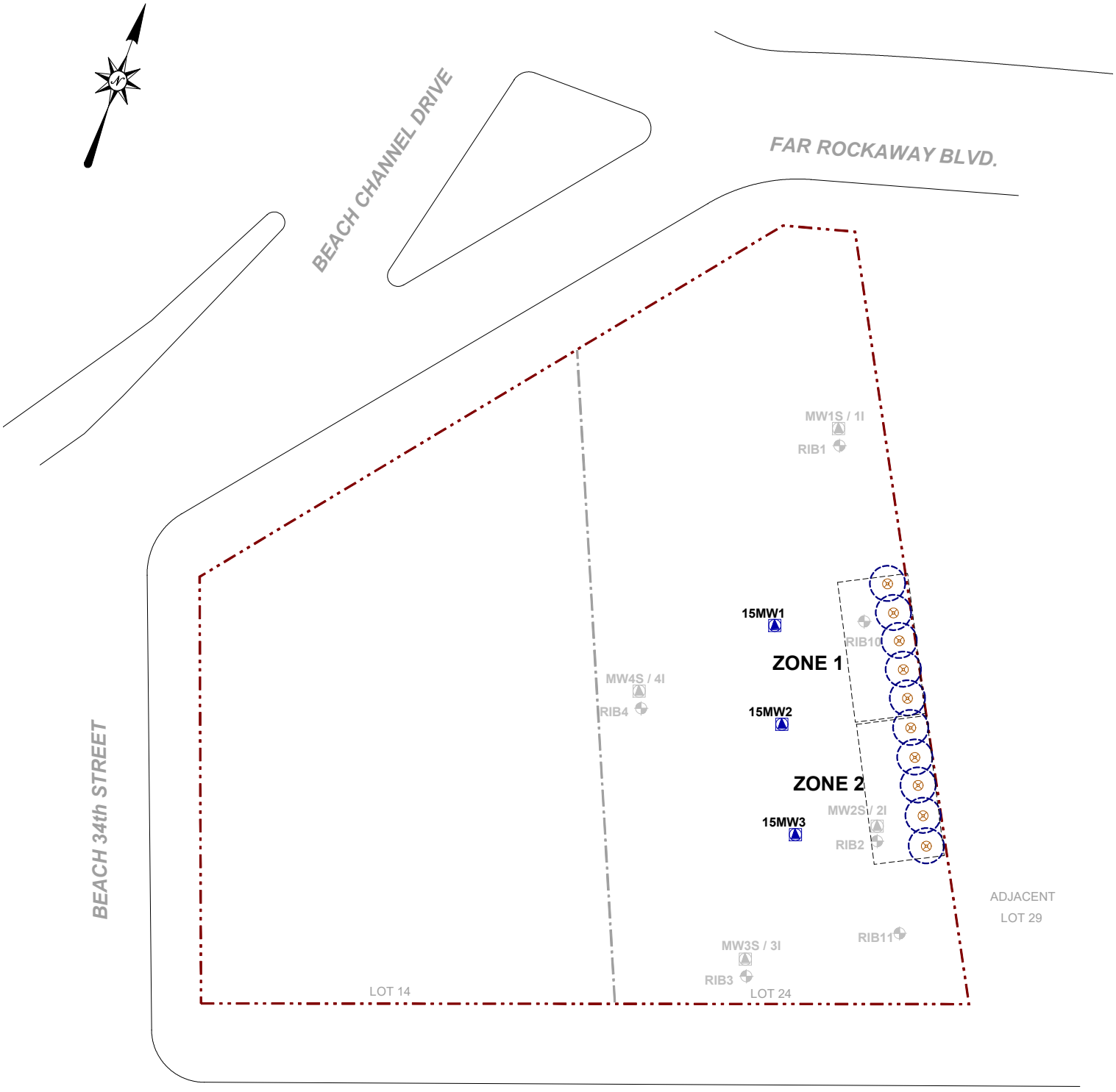



Graph 2
15MW2 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - June 2018
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
VOC Concentration
12/18/15
1/2/16
7/5/16
PVOCs
Total VOCs
CVOCs
Chemical Oxidant Injection
12/18/2015
8/5/2016
9/20/2016
12/20/2016
3/27/2017
6/8/2017
9/18/2017
12/13/2017
3/23/2018
6/15/2018
Date

Graph 3
15MW3 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - June 2018



FIGURES



SCALE

0 20 40

1 inch = 40 feet

KEY

- Site Boundary
- MWx — RI Monitoring Well
- RIBx — RI Soil Boring
- 15MWx — ISCO Performance Monitoring Well
- ROI (5 ft) — Oxidant Injection Location

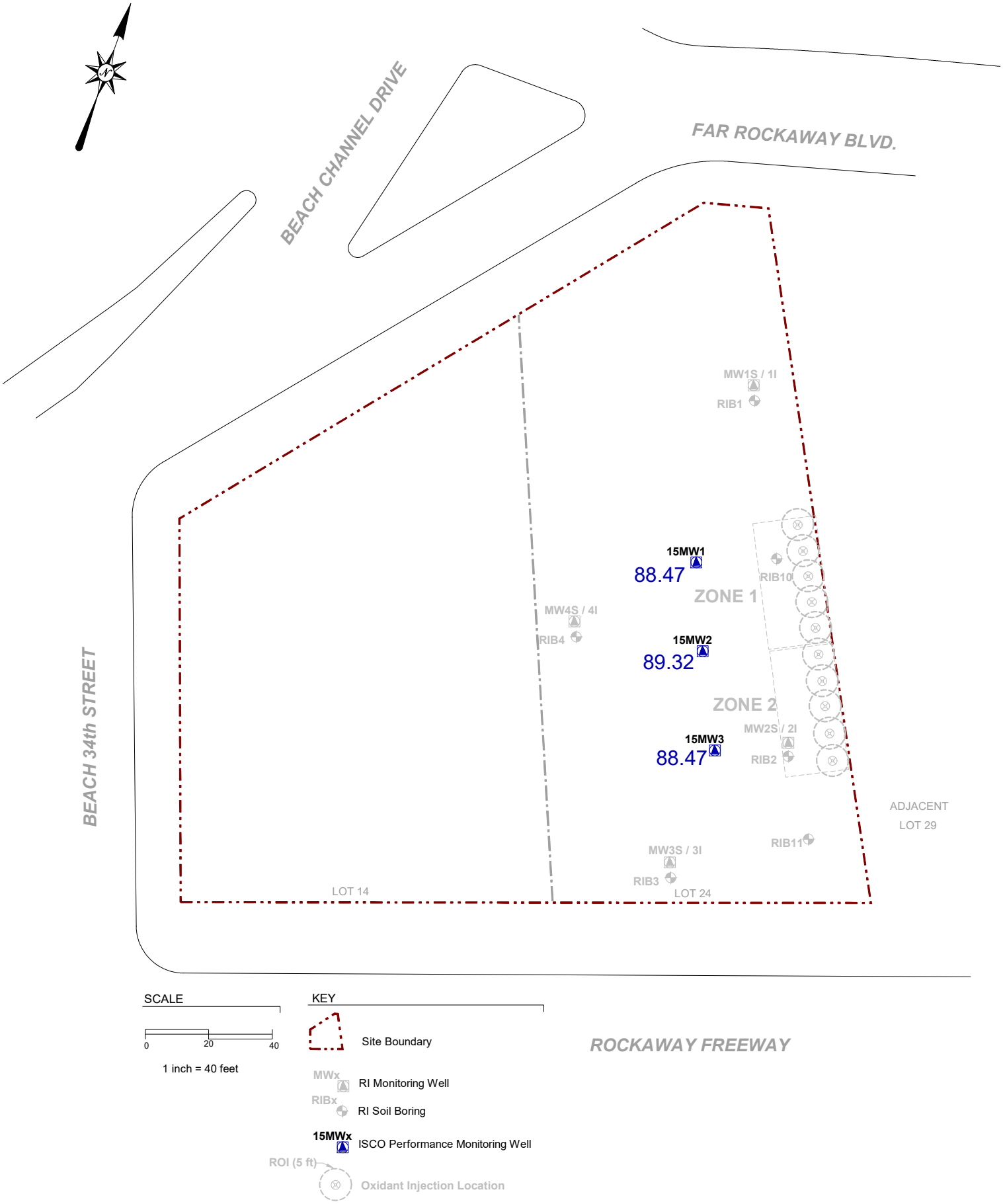
EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 1

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Injection and Monitoring Well Locations



EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 2

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Groundwater Elevation Map

LEGEND:

- SHALLOW WELLS WITH GROUNDWATER RELATIVE ELEVATION (FEET) — MW-1S (15.86)
- GROUNDWATER FLOW DIRECTION
- 16.0 — WATER TABLE CONTOURS (WESTERN WELLS)
- 16.1 — WATER TABLE CONTOURS (EASTERN WELLS)

FPM GROUP

FIGURE 3
JANUARY 2015
SHALLOW GROUNDWATER
RELATIVE ELEVATION CONTOURS

34-11 BEACH CHANNEL DRIVE SITE
FAR ROCKAWAY, QUEENS, NEW YORK

Drawn By: H.C.	Checked By: S.D.	Date 2/9/2015

H:\ALPROF\RI FIGURES\JANUARY 2015 SHALLOW GW ELEV.dwg, 2/9/2015 2:36:37 PM, Letter

APPENDIX A

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORMS

34-11 Beach Channel Drive

GROUNDWATER PURGE / SAMPLE LOGS

FBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15 MW1

Date: 6/15/18

Well Depth (from TOC): 30'

Equipment: Horiba, Peristaltic Pump

Static Water Level (from TOC): 6.28'

Height of Water in Well: 23.72'

Gallons of Water per Well Volume: 2.37

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	Temp. (deg. C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS	Comments
8:23	400mL/min	0	16.25	8.12	-106	6.40	773	7.39		very turbid
8:26	↓	.33	15.77	8.16	-109	6.52	261	6.39		very turbid
8:31		.88	15.72	8.12	-114	6.72	204	5.72		turbid
8:36		1.43	15.72	8.08	-118	6.75	69.0	5.44		clear
8:41		1.98	15.74	8.07	-120	6.78	19.3	5.21		clear
8:46		2.53	15.77	8.06	-123	6.78	9.6	5.08		clear
8:51		3.08	15.78	8.06	-124	6.78	8.7	5.01		clear

Note 400 ml = 0.11 gallons

34-11 Beach channel drive

GROUNDWATER PURGE / SAMPLE LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15 mw 2

Date: 6/15/18

Well Depth (from TOC): 30'

Equipment: Horiba, Peristaltic Pump

Static Water Level (from TOC): 5.33

Height of Water in Well: 24.67

Gallons of Water per Well Volume: 2.46

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	Temp. (deg. C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS	Comments
9:36	400mL/min	0	16.79	7.77	-85	.772	911	6.86		Very turbid
9:39		.33	15.57	7.62	-109	.445	349	6.62		Very turbid
9:44		.88	15.09	7.63	-129	.493	275	6.23		turbid
9:49		1.43	15.00	7.60	-148	.466	155	6.17		turbid
9:54		1.98	15.00	7.62	-157	.481	69.8	6.04		clear
9:59		2.53	15.01	7.63	-161	.481	47.6	6.12		clear
10:04		3.08	14.97	7.62	-163	.509	~~40.2~~ 40.1	5.75		clear

Note 400 ml = 0.11 gallons

34-11 Beach Channel Drive

GROUNDWATER PURGE / SAMPLE LOGS

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15 mw3

Date: 6/15/18

Well Depth (from TOC): 30'

Equipment: Horiba, peristaltic pump

Static Water Level (from TOC): ~~23.84~~ 6.16'

Height of Water in Well: 23.84

Gallons of Water per Well Volume: 2.38

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	Temp. (deg. C)	pH	ORP (mV)	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	TDS	Comments
10:29	400 mL/min	0	16.69	8.05	-56	5.13	947	7.00		very turbid
10:32		.33	16.37	8.00	-81	5.36	604	5.06		very turbid
10:37		.88	16.40	7.99	-98	5.16	380	4.63		turbid
10:42		1.43	16.42	7.98	-106	4.91	288	4.54		turbid
10:47		1.98	16.47	7.97	-111	4.74	160	4.44		turbid
10:52		2.53	16.49	7.95	-115	4.61	150	4.30		turbid
10:57		3.08	16.54	7.95	-117	4.56	73.3	4.34		clear
11:02		3.63	16.52	7.94	-120	3.98	51.3	3.97		clear

Note 400 ml = 0.11 gallons

APPENDIX B

Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 21, 2018

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

Project ID: 34-11 BEACH CHANNEL DRIVE
Sample ID#s: CA72509 - CA72512

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

June 21, 2018

SDG I.D.: GCA72509

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.

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

June 21, 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:		06/15/18	
Location Code:	EBC	Received by:	LB	06/18/18	13:27
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA72509
Phoenix ID: CA72509

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW1

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	06/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW1

Phoenix I.D.: CA72509

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.2	JS	5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Benzene	1.5		0.70	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	1.8		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	06/19/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.40	J	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	2.4	J	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Vinyl chloride	0.66	J	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	06/19/18	MH	70 - 130 %	
% Bromofluorobenzene	100				%	1	06/19/18	MH	70 - 130 %	
% Dibromofluoromethane	102				%	1	06/19/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW1

Phoenix I.D.: CA72509

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	06/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	06/19/18	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	06/19/18	MH	70 - 130 %
% Bromofluorobenzene	100			%	1	06/19/18	MH	70 - 130 %
% Toluene-d8	101			%	1	06/19/18	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	06/19/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	06/19/18	MH	SW8260C

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

Comments:

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

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director
June 21, 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

June 21, 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:		06/15/18	
Location Code:	EBC	Received by:	LB	06/18/18	13:27
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA72509
Phoenix ID: CA72510

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW2

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	06/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW2

Phoenix I.D.: CA72510

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	15	S	5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	3.7		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Ethylbenzene	0.35	J	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	06/19/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
m&p-Xylene	1.1		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
Naphthalene	1.7		1.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
o-Xylene	0.79	J	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	0.26	J	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Vinyl chloride	14		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	06/19/18	MH	70 - 130 %	
% Bromofluorobenzene	99				%	1	06/19/18	MH	70 - 130 %	
% Dibromofluoromethane	104				%	1	06/19/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW2

Phoenix I.D.: CA72510

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100			%	1	06/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	06/19/18	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	06/19/18	MH	70 - 130 %
% Bromofluorobenzene	99			%	1	06/19/18	MH	70 - 130 %
% Toluene-d8	100			%	1	06/19/18	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	06/19/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	06/19/18	MH	SW8260C

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

Comments:

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

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director
June 21, 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

June 21, 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:		06/15/18	
Location Code:	EBC	Received by:	LB	06/18/18	13:27
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA72509
Phoenix ID: CA72511

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW3

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	06/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW3

Phoenix I.D.: CA72511

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	2.8	JS	5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Benzene	0.73		0.70	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	6.0		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	06/19/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	0.54	J	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Vinyl chloride	4.7		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	06/19/18	MH	70 - 130 %	
% Bromofluorobenzene	100				%	1	06/19/18	MH	70 - 130 %	
% Dibromofluoromethane	103				%	1	06/19/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: 15MW3

Phoenix I.D.: CA72511

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	06/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	06/19/18	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	06/19/18	MH	70 - 130 %
% Bromofluorobenzene	100			%	1	06/19/18	MH	70 - 130 %
% Toluene-d8	101			%	1	06/19/18	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	06/19/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	06/19/18	MH	SW8260C

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

Comments:

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

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director
June 21, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 21, 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:		06/15/18	
Location Code:	EBC	Received by:	LB	06/18/18	13:27
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA72509
Phoenix ID: CA72512

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: DUPLICATE

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	06/19/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	06/19/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: DUPLICATE

Phoenix I.D.: CA72512

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.2	JS	5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	
Benzene	1.5		0.70	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,2-Dichloroethene	1.9		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	06/19/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.46	J	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	06/19/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	06/19/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,2-Dichloroethene	2.5	J	5.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	06/19/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	06/19/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
Vinyl chloride	0.68	J	1.0	0.25	ug/L	1	06/19/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	06/19/18	MH	70 - 130 %	
% Bromofluorobenzene	100				%	1	06/19/18	MH	70 - 130 %	
% Dibromofluoromethane	104				%	1	06/19/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE
Client ID: DUPLICATE

Phoenix I.D.: CA72512

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101			%	1	06/19/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	06/19/18	MH	SW8260C
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99			%	1	06/19/18	MH	70 - 130 %
% Bromofluorobenzene	100			%	1	06/19/18	MH	70 - 130 %
% Toluene-d8	101			%	1	06/19/18	MH	70 - 130 %
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	06/19/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	06/19/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	06/19/18	MH	SW8260C

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

Comments:

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

S - Laboratory solvent, contamination is possible.

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

Phyllis Shiller, Laboratory Director
June 21, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

June 21, 2018

QA/QC Data

SDG I.D.: GCA72509

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 435401 (ug/L), QC Sample No: CA71870 (CA72509, CA72510, CA72511, CA72512)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	99	92	7.3				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	92	85	7.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	85	78	8.6				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	83	76	8.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	83	76	8.8				70 - 130	30
1,1-Dichloroethene	ND	1.0	81	75	7.7				70 - 130	30
1,1-Dichloropropene	ND	1.0	86	81	6.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	92	83	10.3				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	87	79	9.6				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	90	82	9.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	89	83	7.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	95	89	6.5				70 - 130	30
1,2-Dibromoethane	ND	1.0	89	80	10.7				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	86	82	4.8				70 - 130	30
1,2-Dichloroethane	ND	1.0	99	91	8.4				70 - 130	30
1,2-Dichloropropane	ND	1.0	81	75	7.7				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	89	83	7.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	87	81	7.1				70 - 130	30
1,3-Dichloropropane	ND	1.0	86	79	8.5				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	87	81	7.1				70 - 130	30
1,4-dioxane	ND	100	109	91	18.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	93	89	4.4				70 - 130	30
2-Chlorotoluene	ND	1.0	85	79	7.3				70 - 130	30
2-Hexanone	ND	5.0	83	75	10.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	95	89	6.5				70 - 130	30
4-Chlorotoluene	ND	1.0	84	78	7.4				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	87	78	10.9				70 - 130	30
Acetone	ND	5.0	85	79	7.3				70 - 130	30
Acrolein	ND	5.0	96	88	8.7				70 - 130	30
Acrylonitrile	ND	5.0	86	81	6.0				70 - 130	30
Benzene	ND	0.70	80	75	6.5				70 - 130	30
Bromobenzene	ND	1.0	89	82	8.2				70 - 130	30
Bromochloromethane	ND	1.0	83	77	7.5				70 - 130	30
Bromodichloromethane	ND	0.50	94	88	6.6				70 - 130	30
Bromoform	ND	1.0	100	92	8.3				70 - 130	30
Bromomethane	ND	1.0	100	96	4.1				70 - 130	30
Carbon Disulfide	ND	1.0	84	81	3.6				70 - 130	30
Carbon tetrachloride	ND	1.0	95	88	7.7				70 - 130	30
Chlorobenzene	ND	1.0	87	81	7.1				70 - 130	30
Chloroethane	ND	1.0	92	86	6.7				70 - 130	30
Chloroform	ND	1.0	89	82	8.2				70 - 130	30

QA/QC Data

SDG I.D.: GCA72509

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	1.0	83	80	3.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	80	75	6.5				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	85	81	4.8				70 - 130	30
Dibromochloromethane	ND	0.50	102	93	9.2				70 - 130	30
Dibromomethane	ND	1.0	86	79	8.5				70 - 130	30
Dichlorodifluoromethane	ND	1.0	96	89	7.6				70 - 130	30
Ethylbenzene	ND	1.0	87	82	5.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	96	93	3.2				70 - 130	30
Isopropylbenzene	ND	1.0	83	78	6.2				70 - 130	30
m&p-Xylene	ND	1.0	87	81	7.1				70 - 130	30
Methyl ethyl ketone	ND	5.0	92	78	16.5				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	92	86	6.7				70 - 130	30
Methylene chloride	ND	1.0	74	69	7.0				70 - 130	30
Naphthalene	ND	1.0	91	82	10.4				70 - 130	30
n-Butylbenzene	ND	1.0	87	82	5.9				70 - 130	30
n-Propylbenzene	ND	1.0	84	79	6.1				70 - 130	30
o-Xylene	ND	1.0	86	80	7.2				70 - 130	30
p-Isopropyltoluene	ND	1.0	89	83	7.0				70 - 130	30
sec-Butylbenzene	ND	1.0	88	82	7.1				70 - 130	30
Styrene	ND	1.0	87	81	7.1				70 - 130	30
tert-butyl alcohol	ND	10	117	99	16.7				70 - 130	30
tert-Butylbenzene	ND	1.0	88	82	7.1				70 - 130	30
Tetrachloroethene	ND	1.0	86	81	6.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	87	82	5.9				70 - 130	30
Toluene	ND	1.0	82	76	7.6				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	79	73	7.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	88	82	7.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	94	87	7.7				70 - 130	30
Trichloroethene	ND	1.0	86	80	7.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	104	98	5.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	97	91	6.4				70 - 130	30
Vinyl chloride	ND	1.0	88	83	5.8				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	98	96	2.1				70 - 130	30
% Bromofluorobenzene	98	%	104	103	1.0				70 - 130	30
% Dibromofluoromethane	101	%	106	102	3.8				70 - 130	30
% Toluene-d8	100	%	101	101	0.0				70 - 130	30

Comment:

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

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

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

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

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

Phyllis Shiller, Laboratory Director
June 21, 2018

Thursday, June 21, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCA72509 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA72509	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.5	0.70	0.7	0.7	ug/L
CA72509	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.5	0.70	1	1	ug/L
CA72509	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA72509	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA72509	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA72509	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria (SPLP)	1.5	0.70	1	1	ug/L
CA72509	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA72509	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA72509	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA72510	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	14	1.0	2	2	ug/L
CA72510	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA72510	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA72510	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	14	1.0	2	2	ug/L
CA72510	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA72510	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA72510	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria (SPLP)	14	1.0	2	2	ug/L
CA72510	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA72510	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA72511	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	0.73	0.70	0.7	0.7	ug/L
CA72511	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	4.7	1.0	2	2	ug/L
CA72511	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA72511	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA72511	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	6.0	1.0	5	5	ug/L
CA72511	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	4.7	1.0	2	2	ug/L
CA72511	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA72511	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria (SPLP)	4.7	1.0	2	2	ug/L
CA72511	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA72511	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA72511	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria (SPLP)	6.0	1.0	5	5	ug/L
CA72511	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L
CA72512	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.5	0.70	0.7	0.7	ug/L
CA72512	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.5	0.70	1	1	ug/L
CA72512	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CA72512	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CA72512	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CA72512	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.50	0.04	0.04	ug/L
CA72512	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.0006	0.0006	ug/L
CA72512	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria (SPLP)	1.5	0.70	1	1	ug/L
CA72512	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria (SPLP)	ND	0.25	0.04	0.04	ug/L

Thursday, June 21, 2018

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCA72509 - EBC

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

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

June 21, 2018 SDG I.D.: GCA72509

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

VOA Narration

CHEM02 06/19/18-1: CA72509, CA72510, CA72511, CA72512

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 21% (20%), Bromomethane 25% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.033 (0.05), Acetone 0.054 (0.1), Acrolein 0.029 (0.05), Bromoform 0.086 (0.1), Methyl ethyl ketone 0.085 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.035 (0.05), Acrolein 0.028 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

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

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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

June 21, 2018

SDG I.D.: GCA72509

The samples in this delivery group were received at 2.2°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

NY/NJ CHAIN OF CUSTODY RECORD

Temp 2.2 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

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:
☐ Email:

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

Project: 34-11 Beach Channel Drive
Report to: EBC
Invoice to: EBC

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Sean Igoe Date:

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	VOCs 8260	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
72509	15 MW1	GW	6/15/18		X				3						
72510	15 MW2	GW	6/15/18		X				3						
72511	15 MW3	GW	6/15/18		X				3						
72512	Duplicate	GW	6/15/18		X				3						
~~72513~~ (TB)															

Relinquished by:	Accepted by:	Date:	Time:
S-I		6/18/18	10:26
	TRAUM	6/18/18	13:27

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TAGM 4046 GW
☐ TAGM 4046 SOIL
☐ NY375 Unrestricted Use Soil
☐ NY375 Residential Soil
☐ Restricted/Residential
☐ Commercial
☐ Industrial

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

State where samples were collected: NY

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

October 9, 2018

Ms. Alicia A Barraza
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
Division of Spill Prevention and Response Programs
47-40 21st Street, Long Island City, New York 11101

Re: Quarterly Groundwater Sampling Report
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Queens, New York
NYSDEC BCP Number: C241141

Dear Ms. Barraza:

Please find the enclosed Quarterly Groundwater Sampling Report for the above referenced project for the third quarter of 2018. In accordance with the Site Management Plan (SMP), a round of groundwater sampling was performed on September 19, 2018 for 15MW1, 15MW2 and 15MW3.

If you have any questions or comments regarding the attached report, please do not hesitate to contact me.

Very truly yours,

Thomas Gallo
Environmental Geologist

Kevin Waters
Project Manager

Cc: J. O'Connell, NYSDEC
A. Arker, Bedford Park Associates LLC
S. Arker, Bedford Park Associates LLC
C. Sosik, EBC
A. Czemerinski, AMC
J. Brooks, Phillips Nizer

34-11 BEACH CHANNEL DRIVE SITE
NYSDEC BCP Number C241141
Project Status Report
3rd Quarter 2018

Reporting Summary

Report Date:	October 9, 2018
Reporting Period:	3rd Quarter of 2018
Site Status:	Building is under construction, currently working on interior
Work Performed this Quarter:	September 19, 2018 – Groundwater sampling events performed on the three on-site monitoring wells.
Remediation Status:	No chemical oxidant events were performed during this period. A chemical oxidant injection was last performed on December 18, 2015, January 2, 2016 and July 5,2016.

Monitoring Program Summary

No. of Wells:	3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Gauging Frequency:	Quarterly for the three monitoring wells.
Sampling Frequency:	Quarterly, 3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Reporting Frequency:	Groundwater Sampling Report (Quarterly).
Groundwater Depth:	5.5 ft (sidewalk grade)
GW Flow Direction:	Historically groundwater flow direction was to the west, but during the second quarter groundwater sampling event the groundwater flow direction was inconclusive.
Monitoring Results:	No product was detected within any of the monitoring wells.
Sampling Results:	VOCs were detected above NYSDEC GQS in two of the three monitoring wells sampled during this event.

OXIDANT INJECTIONS:

No chemical oxidant injections were performed during this period. Chemical Oxidant Injections were last performed on July 5, 2016.

LIQUID LEVEL MONITORING:

Depths to water readings were taken from the 3 monitoring wells with an electronic interface meter prior to purging the wells for sampling. As previously noted, no Liquid Phase Hydrocarbons (LPH) was detected in any of the monitoring wells or injections points during this quarter.

Groundwater elevation as, determined from the depth to water readings and casing elevation, was used to approximate groundwater contours and the groundwater flow direction for the site (**Figure 2)**. Groundwater elevation details are provided in **Table 1.** Historically groundwater flow direction was to the west, but during the first quarter groundwater sampling event the groundwater flow direction was inconclusive (**Figure 3**).

GROUNDWATER SAMPLING:

The 3Q18 groundwater sampling event was performed on September 19, 2018. The groundwater samples were collected from 15MW1, 15MW2 and I5MW3 in accordance with the low-flow groundwater sampling procedures outlined within the SMP. See (**Figure 1)** for the location of all site monitoring wells and chemical oxidant injection wells. A copy of each of the Well Purging-Field Water Quality Measurements Form is attached as (**Appendix A)**. The groundwater samples were picked up by laboratory dispatched courier and delivered to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). The groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) via EPA Method 8260.

Copies of the laboratory reports are attached as (**Appendix B)**. The laboratory results are summarized and compared to their appropriate standards/criteria in (**Table 2)** and to previous sampling events in **(Table 3A-3C)**.

GROUNDWATER SAMPLING RESULTS:

15MW1 – The VOCs including cis-1,2-dichloroethene (13 µg/L) and vinyl chloride (7.9 µg/L) were reported above NYSDEC Groundwater Quality Standards. Total VOC concentrations within 15MW1 increased from 10.25 µg/L to 22.58 µg/L and CVOC concentrations have increase from 5.15 µg/L to 21.74 µg/L when compared to the 2Q18 sampling event.

15MW2 – No VOCs were reported above NYSDEC Groundwater Quality Standards. Total VOC concentrations within 15MW2 have decreased from 36.90 µg/L to 8.74 µg/L and CVOC concentrations have decreased from 17.96 µg/L to 2.47 µg/L when compared to the 2Q18 sampling event.

15MW3 - The VOC benzene (1.4 µg/L) was reported above NYSDEC Groundwater Quality Standards. Total VOC concentrations within 15MW3 decreased from 14.77 µg/L to 6.77 µg/L and CVOC concentrations have decreased from 11.24 µg/L to 3.84 µg/L when compared to the 2Q18 sampling event.

GROUNDWATER VOC CONCENTRATION TRENDS:

As depicted in the concentration graphs **(Graphs 1-3)**, remedial efforts from 2015 through 2016 resulted in a significant reduction in CVOC concentrations in the current focus area as defined by wells 15MW1, 15MW2 and 15MW3. The total VOC and CVOC concentrations within 15MW2 and 15MW3 decreased during this sampling event which followed the overall decreasing trend. The CVOC concentration within 15MW1 increased slightly during this sampling event, with cis-1,2-dichloroethene and vinyl chloride reported above NYSDEC GQS. Although the CVOC and total VOC concentrations increased when compared to the 2Q18 sampling event the overall VOC concentrations are significantly lower than the pre-treatment concentrations.

FUTURE PLANS / RECOMMENDATIONS:

Remedial efforts at the Site have been successful in significantly reducing the overall chlorinated VOCs in groundwater. Water quality is expected to continue to improve over time. The rebound of chlorinated VOCs that had been observed in 15MW3 during the 4Q16 and 1Q17 sampling has continued on a downward trend since the 1Q17 sampling event with no CVOCs reported above NYSDEC GQS during the 3Q18 sampling event.

No VOCs were detected above NYSDEC GQS in 15MW2. Benzene was the only VOC reported above NYSDEC GQS in 15MW3. Only two VOCs, cis-1,2-dichloroethene and vinyl chloride were reported above NYSDEC GQS in 15MW1. EBC therefore requests the termination of groundwater monitoring based on the low levels of VOC concentrations observed.

TABLES

34-11 Beach Channel Drive Site
34-11 Beach Chanel Drive, Far Rockaway, NY

Table 1
Well Survey Data

Well No.	Well Diameter (in)	Total Well Depth (ft)	Screened Interval (ft)	Survey Reading	Casing Elevation	DTW 9/19/2018	DTP	PT	GW ELV 9/19/2018
15MW1	1	30	15 to 30	**6.26**	**93.74**	**6.26**	**-**	**-**	**87.48**
15MW2	1	30	15 to 30	**5.40**	**94.6**	**5.40**	**-**	**-**	**89.20**
15MW3	1	30	15 to 30	**5.90**	**94.10**	**5.90**	**-**	**-**	**88.20**

TABLE 2
34-11 Beach Channel Drive, Far Rockaway, NY
Groundwater Sample Results
3rd Quarter 2018 - September 2018

COMPOUND	NYSDEC Ambient Water Quality Standards	15MW1		15MW2		15MW3		GW Duplicate	
		9/19/2018		9/19/2018		9/19/2018		9/19/2018	
	µg/L	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	5	< 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
1,1,2,2-Tetrachloroethane	5	< 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
1,1-Dichloroethane	5	< 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
1,1-Dichloropropene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 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
1,2-Dibromo-3-Chloropropane	0.04	< 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
1,2-Dichlorobenzene	5	< 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
1,2-Dichloropropane	1	< 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
1,3-Dichlorobenzene		< 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
1,4-Dichlorobenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		< 100	100	< 100	100	< 100	100	< 100	100
2-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Hexanone		< 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
2,2-Dichloropropane	5	< 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
4-Methyl-2-Pentanone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 10	10	< 10	10	< 10	10	< 10	10
Acrolein	5	< 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
Benzene	1	**0.84**	0.70	< 0.70	0.70	**1.4**	0.70	**0.9**	0.70
Bromobenzene	5	< 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
Bromodichloromethane		< 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
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 1.0	1.0	< 1.0	1.0	< 1.0	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
Chlorobenzene	5	< 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
Chloroform	7	< 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
cis-1,2-Dichloroethene	5	**13**	1.0	**0.87**	1.0	**1.4**	1.0	**6.1**	1.0
cis-1,3-Dichloropropene		< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane	5	< 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
Dichlorodifluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethyl Benzene	5	< 1.0	1.0	**0.67**	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m/p-Xylenes	5	< 1.0	1.0	**2.7**	1.0	< 1.0	1.0	< 1.0	1.0
Methyl ethyl ketone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl tert-butyl Ether	10	< 1.0	1.0	< 1.0	1.0	**0.43**	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
Naphthalene	10	< 1.0	1.0	**1.2**	1.0	**1.1**	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
n-Propylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 1.0	1.0	**1.7**	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
sec-Butylbenzene	5	< 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
Tert-butyl alcohol		< 50	50	< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 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
Tetrahydrofuran (THF)		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**0.84**	5.0	< 5.0	5.0	**2.1**	5.0	**0.76**	5.0
trans-1,3-Dichloropropene	0.4	< 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
Trichloroethene	5	< 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
Trichlorotrifluoroethane		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**7.9**	1.0	**1.6**	1.0	**0.34**	1.0	**6.6**	1.0
Total Chlorinated VOC		**21.74**		**2.47**		**3.84**		**13.46**	
Total Petroleum VOC		**0.84**		**6.27**		**2.93**		**0.90**	
Total VOCs		**22.58**		**8.74**		**6.77**		**14.36**	

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

TABLE 3A
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW1

Compound	NYSDEC Groundwater Quality Standards	15MW1																					
		12/18/2015		8/5/2016		9/20/2016		12/20/2016		3/27/2017		6/8/2017		9/18/2017		12/13/2017		3/23/2018		6/15/2018		9/19/2018	
	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Result	RL	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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethene	5	**8.2**	5.0	**1.1**	1.0	**0.78**	1.0	< 1.0	1.0	**1.4**	5.0	**0.58**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	0.29	1.0	0.29	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 4.7	4.7	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 2.5	2.5	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4**	1.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	**3.5**	5.0	**4.3**	5.0	< 5.0	5.0	< 25	25	**5.7**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**3.2**	5.0	< 10	10
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.1	0.70	**0.84**	0.70	**0.25**	0.70	< 1.3	1.3	**0.56**	0.70	**1.1**	0.70	**1.8**	0.70	**1.70**	0.70	**1.5**	0.70	**0.84**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 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	< 5.0	5.0	< 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	**0.29**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0	< 5.0	5.0	< 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	**0.74**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 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	**6,000**	400	**300**	20	**230**	10	**51**	5.0	**690**	13	**300**	20	**76**	10	**17**	1.0	**5.40**	1.0	**1.8**	1.0	**13**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 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)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 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	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.38**	1.0	**0.5**	1.0	**0.38**	1.0	**0.4**	1.0	< 1.0	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.32**	1.0	**0.43**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**220**	100	**22**	5.0	**9.7**	5.0	**4.7**	5.0	**11**	5.0	**6.7**	5.0	**3.3**	5.0	**4.3**	5.0	**2.10**	5.0	**2.4**	5.0	**0.84**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 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	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**11**	5.0	< 1.0	1.0	**0.3**	1.0	**0.37**	1.0	< 5.0	5.0	**0.26**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**4,900**	400	**420**	20	**130**	10	**80**	2.5	**320**	13	**160**	20	**100**	10	**27**	1.0	**17**	1.0	**0.66**	1.0	**7.9**	1.0
CVOCs		**11,139.20**		**743.10**		**371.52**		**140.07**		**1,022.40**		**467.83**		**179.30**		**48.65**		**24.79**		**5.15**		**21.74**	
PVOCs		**0.0**		**4.6**		**5.1**		**0.3**		**0.0**		**6.3**		**1.8**		**1.8**		**2.1**		**5.1**		**0.84**	
Total VOCs		**11,139.20**		**747.70**		**376.66**		**140.32**		**1,022.40**		**474.09**		**181.10**		**50.45**		**26.87**		**10.25**		**22.58**	

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

TABLE 3B
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW2

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW2																					
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L		6/15/2018 µg/L		9/19/2018 µg/L	
		Result	RL	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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 10	10	< 2.5	2.5	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 4.7	4.7	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 10	10	< 2.5	2.5	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4.40**	1.0	< 1.0	1.0	< 5.0	5.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	**17.00**	25	**16**	5.0	< 5.0	5.0	**15**	5.0	< 10	10
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.10	0.70	**0.80**	0.70	**0.77**	7.0	**0.74**	0.70	< 5.1	5.0	< 1.3	1.3	**0.38**	0.70	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 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	< 50	50	< 25	25	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 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	< 5.0	5.0	< 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	< 7.0	7.0	< 7.0	7.0	< 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	< 5.0	5.0	< 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	**1400**	5.0	**25**	1.0	**18**	1.0	**10**	5.0	**5.50**	1.0	**12**	20	**440**	20	**25**	1.0	**5.9**	1.0	**3.7**	1.0	**0.87**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**4600**	400	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	**0.67**	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**28**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	0.26	1.0	< 1.0	1.0	**28,000**	1000.00	< 5.0	5.0	**0.39**	1.0	**0.54**	1.0	**1.1**	1.0	**2.7**	1.0
Methyl Ethyl Ketone (2-Butanone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	**3**	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	**1.5**	1.0	**1.7**	1.0	**1.2**	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**1.7**	1.0
o-Xylene	5	< 5.0	5.0	**0.86**	1.0	**0.71**	1.0	**0.95**	1.0	< 1.0	1.0	**10,000**	400	< 5.0	5.0	**0.34**	1.0	**0.36**	1.0	**0.79**	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 25	25	< 5.0	5.0	**7**	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**32**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**14**	5.0	**5.50**	5.0	**4.60**	5.0	**5.10**	5.0	**5.10**	5.0	< 5.0	5.0	**6.40**	25	**1.9**	5.0	**0.37**	5.0	**0.26**	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**14**	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**570**	5.0	**240**	20	**160**	10	**43**	2.0	**1.10**	1.0	< 5.0	5.0	**480**	20	**39**	20	**27**	1.0	**14**	1.0	**1.6**	1.0
CVOCs		1,998.00		270.50		182.60		62.50		11.70		12.00		926.40		65.90		33.27		17.96		2.47	
PVOCs		0.0		2.0		1.5		2.0		0.7		42,660.0		17.0		0.7		9.4		18.9		6.3	
Total VOCs		1,998.00		272.46		184.11		64.48		12.44		42,672.00		943.40		66.63		42.67		36.90		8.74	

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

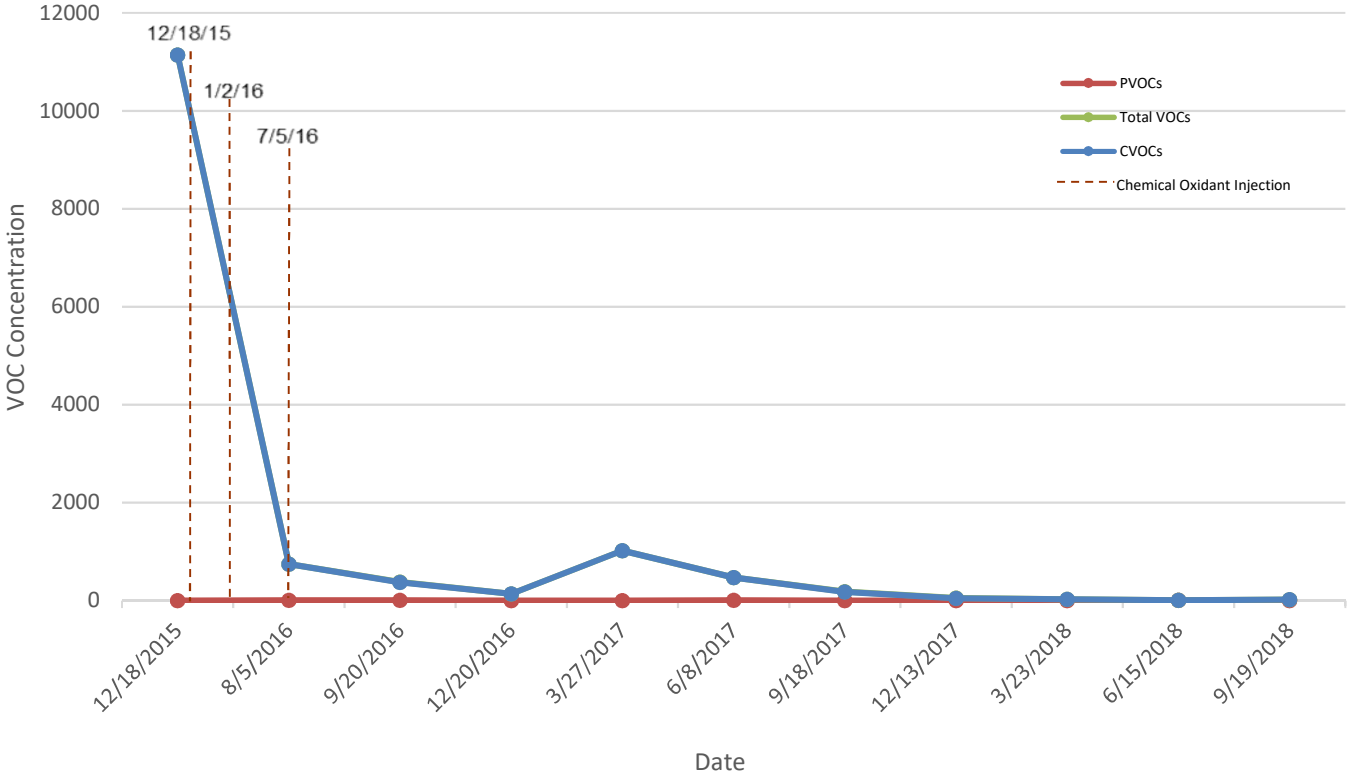
TABLE 3C
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW3

Compound	NYSDEC Groundwater Quality Standards	15MW3																					
		12/18/2015		8/5/2016		9/20/2016		12/20/2016		3/27/2017		6/8/2017		9/18/2017		12/13/2017		3/23/2018		6/15/2018		9/19/2018	
	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Result	RL	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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**51**	5.0	**110**	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2,4-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.32**	1.0	< 1.0	1.0	<0.5	0.50	<0.5	0.50	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 10	10	< 10	10	-	-	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25
1,2-Dichlorobenzene	5	< 4.0	4.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0
1,2-Dichloroethane	0.6	< 3.0	3.0	< 0.60	0.60	< 0.60	0.60	< 10	10	< 10	10	-	-	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
2-Hexanone (Methyl Butyl Ketone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		**15**	25	< 5.0	5.0	**2.7**	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**2.8**	5.0	< 10	10
Acrolein		< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	**7.5**	3.5	0.49	0.70	**0.75**	0.70	< 5.0	5.0	< 5.0	5.0	-	-	**2.2**	0.70	**1.1**	0.70	**0.6**	0.70	**0.73**	0.70	**1.4**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 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	< 50	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	**2.3**	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.29**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	**20**	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 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	< 7.0	7.0	< 7.0	7.0	-	-	< 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	0.3	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.41**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**430**	20	**72**	10	**24**	1.0	**11,000**	100	**21,000**	250	-	-	**29**	20	**26**	1.0	**9**	1.0	**6**	1.0	**1.4**	1.0
cis-1,3-Dichloropropene		< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.3**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 4.0	4.0	-	-	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.27**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.33**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methyl Ethyl Ketone (2-Butanone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**0.43**	1.0
Methylene chloride	5	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 20	20	-	-	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**1.7**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**1.1**	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.34**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	**2.5**	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**11**	25	**1**	5.0	**0.96**	5.0	**26**	5.0	**65**	5.0	-	-	**0.89**	5.0	**1**	5.0	**0.64**	5.0	**0.54**	5.0	**2.1**	5.0
trans-1,3-Dichloropropene	0.4	< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 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	< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**1,200**	100	**2,300**	50	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**150**	20	**49**	10	**18**	1.0	**3,900**	100	**5,600**	50	-	-	**24**	20	**43**	20	**18**	1.0	**5**	1.0	**0.34**	1.0
CVOCs		**611.0**		**122.3**		**43.0**		**16,177.0**		**29,075.0**		**-**		**54.3**		**70.0**		**28.0**		**11.2**		**3.8**	
PVOCs		**27.3**		**0.5**		**3.5**		**0.0**		**0.0**		**-**		**5.8**		**0.0**		**0.6**		**3.5**		**2.9**	
Total VOCs		**638.3**		**122.8**		**46.4**		**16,177.0**		**29,075.0**		**-**		**60.1**		**70.0**		**28.6**		**14.8**		**6.8**	

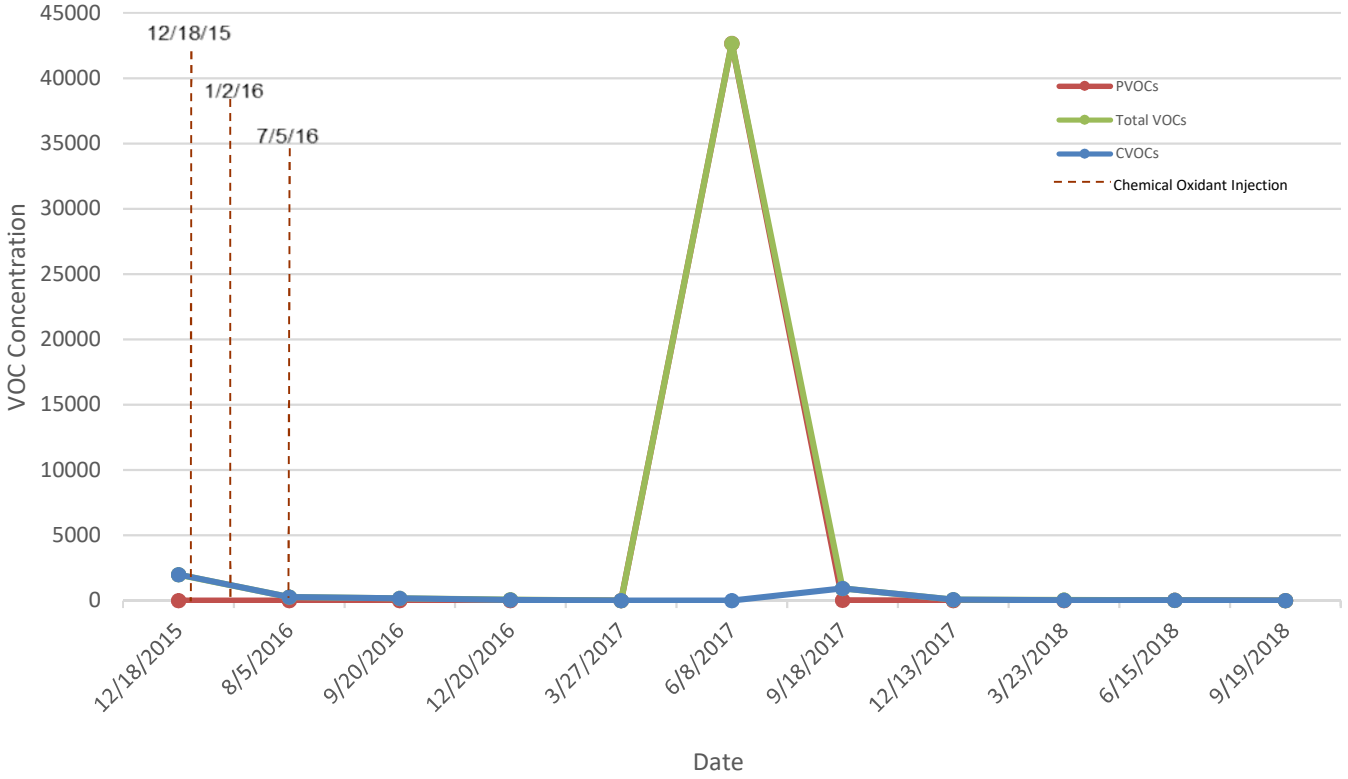
Notes:
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

GRAPHS

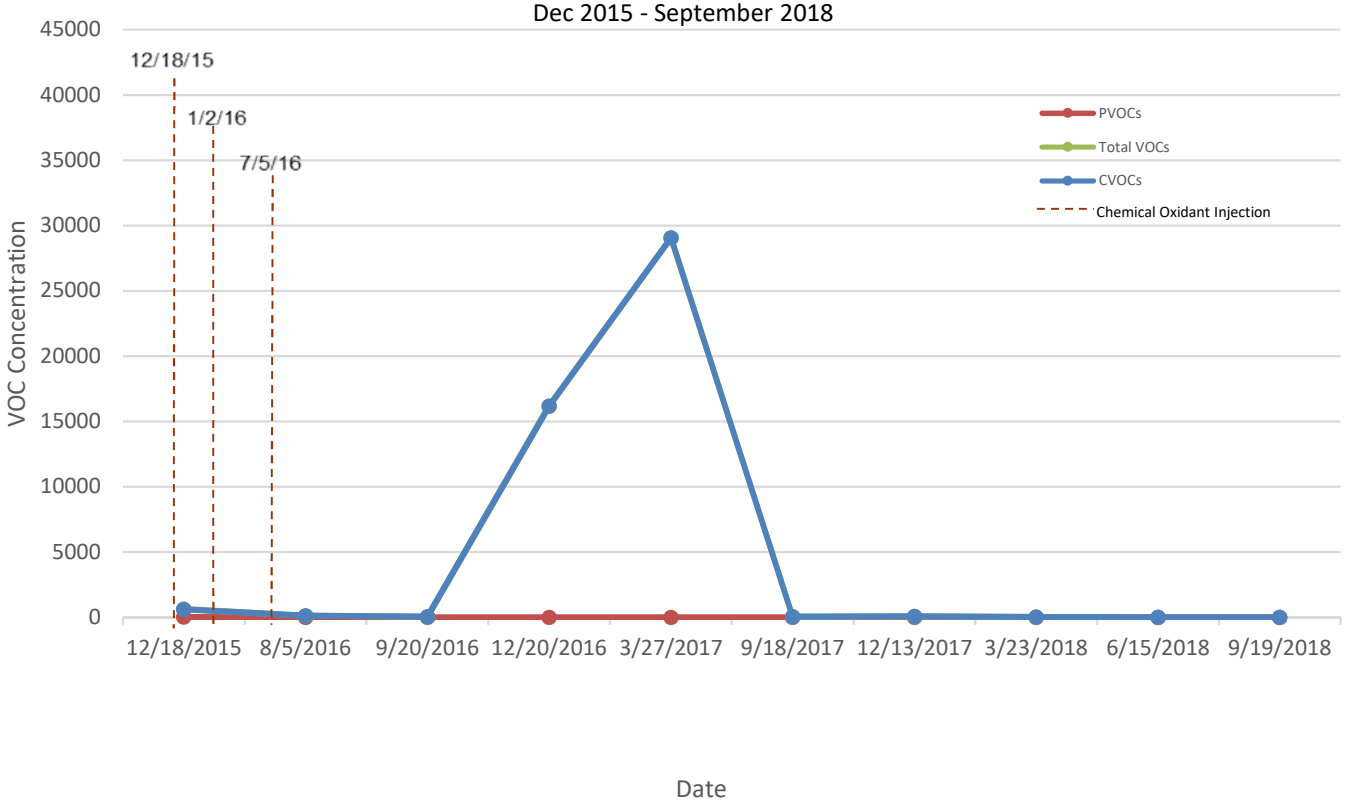
Graph 1
15MW1 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - September 2018



Graph 2
15MW2 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - September 2018

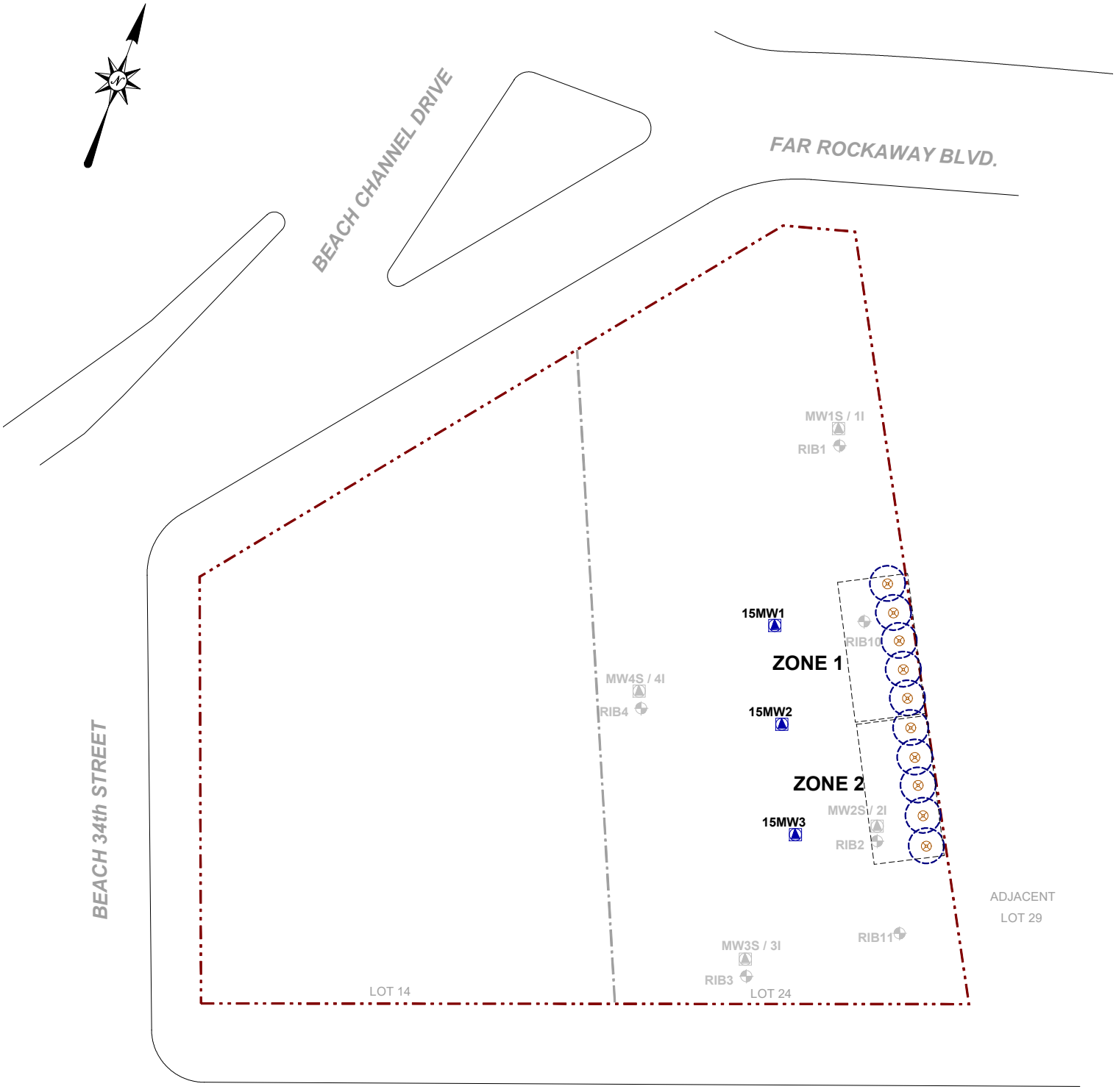


Graph 3
15MW3 VOCs
34-11 Beach Channel Drive, Queens, NY
Dec 2015 - September 2018



FIGURES

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



SCALE

0 20 40

1 inch = 40 feet

KEY

- Site Boundary
- MWx — RI Monitoring Well
- RIBx — RI Soil Boring
- 15MWx — ISCO Performance Monitoring Well
- ROI (5 ft) — Oxidant Injection Location

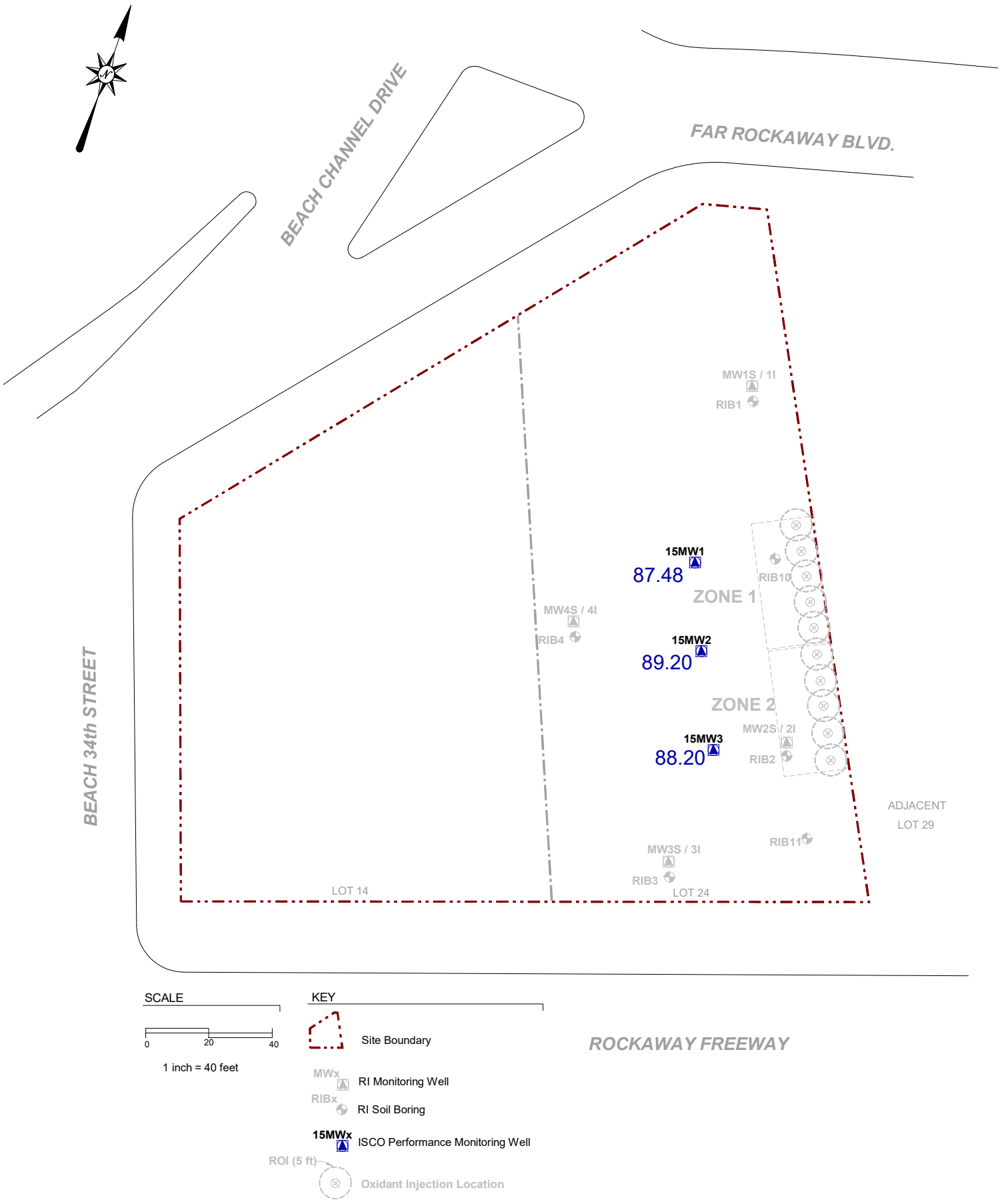
EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 1

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Injection and Monitoring Well Locations



EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 2

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Groundwater Elevation Map

LEGEND:

- SHALLOW WELLS WITH GROUNDWATER RELATIVE ELEVATION (FEET) — MW-1S (15.86)
- GROUNDWATER FLOW DIRECTION
- 16.0 — WATER TABLE CONTOURS (WESTERN WELLS)
- 16.1 — WATER TABLE CONTOURS (EASTERN WELLS)

FPM GROUP

FIGURE 3
JANUARY 2015
SHALLOW GROUNDWATER
RELATIVE ELEVATION CONTOURS

34-11 BEACH CHANNEL DRIVE SITE
FAR ROCKAWAY, QUEENS, NEW YORK

Drawn By: H.C.	Checked By: S.D.	Date 2/9/2015

H:\ALPROF\RI FIGURES\JANUARY 2015 SHALLOW GW ELEV.dwg, 2/9/2015 2:36:37 PM, Letter

APPENDIX A

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORMS

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive, Queens, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW1

Date: 9/19/2018

Well Depth (from TOC): 30'

Equipment: Peristaltic Pump, U-52 Horiba

Static Water Level (from TOC): 6.26

Height of Water in Well: 23.74

Gallons of Water per Well Volume: ~~0.827~~ 2.374

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
9:43	400 ml/min	0	7.83	3.93	21.36	5.57	-106	14.1		Clear
9:46	↓	.33	7.24	5.93	20.70	1.00	-155	21.1		Clear
9:51	↓	.88	7.12	6.95	18.94	0	-171	46.7		Clear
9:56	↓	1.43	7.09	7.33	18.46	0	-172	17.2		Clear
10:01	↓	1.98	7.08	7.36	18.34	0	-173	6.7		Clear
10:06	↓	2.53	7.08	7.32	18.42	0	-174	0		Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive, Queens, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW2

Date: 9/19/2018

Well Depth (from TOC): 30'

Equipment: Peristaltic Pump, U-52 Horiba

Static Water Level (from TOC): 5.4'

Height of Water in Well: 24.6'

Gallons of Water per Well Volume: ~~0.246~~ 2.46

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
9:02	400 ml/min	0	8.17	.824	20.91	5.03	-136	19.9		Clear
9:05	↓	.33	8.21	.801	20.60	1.42	-174	2.8		Clear
9:10		.88	8.02	.799	19.70	2.66	-219	0		Clear
9:15		1.43	8.08	.802	19.44	.83	-241	0		Clear
9:20		1.98	8.12	.801	19.28	.80	-252	0		Clear
9:25	↓	2.53	8.12	.802	19.17	.87	-257	0		Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive, Queens, NY

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW3

Date: 9/19/2018

Well Depth (from TOC): 30'

Equipment: Peristaltic Pump, U-52 Horiba

Static Water Level (from TOC): 5.9'

Height of Water in Well: 24.1'

Gallons of Water per Well Volume: ~~0.247~~ 2.41

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TDS	Comments
8:07	400 ml/min	0	~~7.24~~ 7.11	6.44	20.26	2.52	-89	16.2		Clear
8:10	↓	.33	7.17	6.35	19.68	.76	-97	16.0		Clear
8:15		.88	7.11	6.14	18.84	.07	-104	6.14		Clear
8:20		1.43	7.09	5.93	18.66	0	-110	0		Clear
8:25		1.98	7.09	5.75	18.40	0	-115	0		Clear
8:30	↓	2.53	7.08	5.66	18.21	0	-118	0		Clear

Note 400 ml = 0.11 gallons

APPENDIX B

Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Monday, October 01, 2018

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

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Sample ID#s: CB35613 - CB35617

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

October 01, 2018

SDG I.D.: GCB35613

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.

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

October 01, 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:		09/19/18	8:15
Location Code:	EBC	Received by:	CP	09/20/18	15:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB35613
Phoenix ID: CB35613

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW3

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	09/23/18	PS	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW3

Phoenix I.D.: CB35613

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		10	10	ug/L	1	09/23/18	PS	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Benzene	0.84		0.70	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	09/23/18	PS	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,2-Dichloroethene	0.84	J	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Vinyl chloride	7.9		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	09/23/18	PS	70 - 130 %	
% Bromofluorobenzene	97				%	1	09/23/18	PS	70 - 130 %	
% Dibromofluoromethane	95				%	1	09/23/18	PS	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW3

Phoenix I.D.: CB35613

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	09/23/18	PS	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	09/23/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	09/23/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	09/23/18	MH	SW8260C

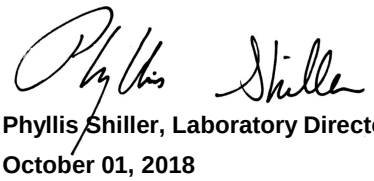
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

Comments:

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

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



Phyllis Shiller, Laboratory Director
October 01, 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

October 01, 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:		09/19/18	9:23
Location Code:	EBC	Received by:	CP	09/20/18	15:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB35613
Phoenix ID: CB35614

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW2

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	09/23/18	PS	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW2

Phoenix I.D.: CB35614

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		10	10	ug/L	1	09/23/18	PS	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Benzene	ND		0.70	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,2-Dichloroethene	0.87	J	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Ethylbenzene	0.67	J	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	09/23/18	PS	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
m&p-Xylene	2.7		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
Naphthalene	1.2		1.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
o-Xylene	1.7		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Vinyl chloride	1.6		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	09/23/18	PS	70 - 130 %	
% Bromofluorobenzene	95				%	1	09/23/18	PS	70 - 130 %	
% Dibromofluoromethane	86				%	1	09/23/18	PS	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW2

Phoenix I.D.: CB35614

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	09/23/18	PS	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	09/23/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	09/23/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	09/23/18	MH	SW8260C

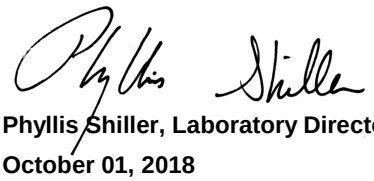
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

Comments:

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

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



Phyllis Shiller, Laboratory Director
October 01, 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

October 01, 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:		09/19/18	10:30
Location Code:	EBC	Received by:	CP	09/20/18	15:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB35613
Phoenix ID: CB35615

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW1

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	09/23/18	PS	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW1

Phoenix I.D.: CB35615

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		10	10	ug/L	1	09/23/18	PS	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Benzene	1.4		0.70	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloromethane	ND		5.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
cis-1,2-Dichloroethene	1.4		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	09/23/18	PS	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Methyl t-butyl ether (MTBE)	0.43	J	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
Naphthalene	1.1		1.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,2-Dichloroethene	2.1	J	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Vinyl chloride	0.34	J	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	96				%	1	09/23/18	PS	70 - 130 %	
% Bromofluorobenzene	97				%	1	09/23/18	PS	70 - 130 %	
% Dibromofluoromethane	93				%	1	09/23/18	PS	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: 15MW1

Phoenix I.D.: CB35615

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	09/23/18	PS	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	09/23/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	09/23/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	09/23/18	MH	SW8260C

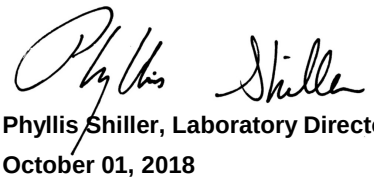
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

Comments:

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

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



Phyllis Shiller, Laboratory Director
October 01, 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

October 01, 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:		09/19/18	
Location Code:	EBC	Received by:	CP	09/20/18	15:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB35613
Phoenix ID: CB35616

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: DUPLICATES

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	09/23/18	PS	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: DUPLICATES

Phoenix I.D.: CB35616

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		10	10	ug/L	1	09/23/18	PS	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Benzene	0.90		0.70	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,2-Dichloroethene	6.1		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	09/23/18	PS	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,2-Dichloroethene	0.76	J	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Vinyl chloride	6.6		1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	92				%	1	09/23/18	PS	70 - 130 %	
% Bromofluorobenzene	91				%	1	09/23/18	PS	70 - 130 %	
% Dibromofluoromethane	75				%	1	09/23/18	PS	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: DUPLICATES

Phoenix I.D.: CB35616

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	96			%	1	09/23/18	PS	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	09/23/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	09/23/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	09/23/18	MH	SW8260C

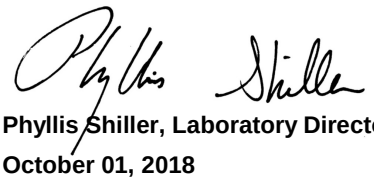
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

Comments:

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

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



Phyllis Shiller, Laboratory Director
October 01, 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

October 01, 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:		09/19/18	
Location Code:	EBC	Received by:	CP	09/20/18	15:50
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCB35613
Phoenix ID: CB35617

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: TRIP BLANKS

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	09/23/18	PS	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	09/23/18	PS	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: TRIP BLANKS

Phoenix I.D.: CB35617

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	10	10	ug/L	1	09/23/18	PS	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	09/23/18	PS	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	09/23/18	PS	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	09/23/18	PS	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	09/23/18	PS	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	09/23/18	PS	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	09/23/18	PS	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	99			%	1	09/23/18	PS	70 - 130 %	
% Bromofluorobenzene	99			%	1	09/23/18	PS	70 - 130 %	
% Dibromofluoromethane	96			%	1	09/23/18	PS	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DR, QUEENS NY
Client ID: TRIP BLANKS

Phoenix I.D.: CB35617

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	09/23/18	PS	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100		ug/l	1	09/23/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	09/23/18	MH	SW8260C
Acrolein	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Acrylonitrile	ND	5.0		ug/L	1	09/23/18	MH	SW8260C
Tert-butyl alcohol	ND	50		ug/L	1	09/23/18	MH	SW8260C

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

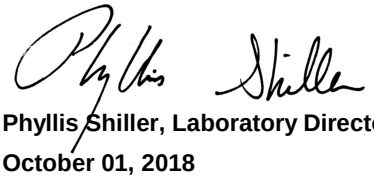
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine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

Comments:

TRIP BLANK INCLUDED.

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

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



Phyllis Shiller, Laboratory Director
October 01, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

October 01, 2018

QA/QC Data

SDG I.D.: GCB35613

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 448861 (ug/L), QC Sample No: CB35617 (CB35613, CB35614, CB35615, CB35616, CB35617)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	104	103	1.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	102	96	6.1				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	104	103	1.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	97	98	1.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	101	96	5.1				70 - 130	30
1,1-Dichloroethene	ND	1.0	101	94	7.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	102	96	6.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	102	120	16.2				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	101	101	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	101	110	8.5				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	101	96	5.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	105	121	14.2				70 - 130	30
1,2-Dibromoethane	ND	1.0	100	99	1.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	99	98	1.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	101	99	2.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	99	97	2.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	95	5.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	101	97	4.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	98	97	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	100	98	2.0				70 - 130	30
1,4-dioxane	ND	100	89	100	11.6				70 - 130	30
2,2-Dichloropropane	ND	1.0	100	91	9.4				70 - 130	30
2-Chlorotoluene	ND	1.0	101	95	6.1				70 - 130	30
2-Hexanone	ND	5.0	94	101	7.2				70 - 130	30
2-Isopropyltoluene	ND	1.0	105	99	5.9				70 - 130	30
4-Chlorotoluene	ND	1.0	101	95	6.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	97	99	2.0				70 - 130	30
Acetone	ND	5.0	91	109	18.0				70 - 130	30
Acrolein	ND	5.0	88	88	0.0				70 - 130	30
Acrylonitrile	ND	5.0	101	105	3.9				70 - 130	30
Benzene	ND	0.70	100	97	3.0				70 - 130	30
Bromobenzene	ND	1.0	101	97	4.0				70 - 130	30
Bromochloromethane	ND	1.0	100	99	1.0				70 - 130	30
Bromodichloromethane	ND	0.50	99	99	0.0				70 - 130	30
Bromoform	ND	1.0	110	111	0.9				70 - 130	30
Bromomethane	ND	1.0	113	106	6.4				70 - 130	30
Carbon Disulfide	ND	1.0	104	97	7.0				70 - 130	30
Carbon tetrachloride	ND	1.0	103	97	6.0				70 - 130	30
Chlorobenzene	ND	1.0	100	97	3.0				70 - 130	30
Chloroethane	ND	1.0	104	97	7.0				70 - 130	30
Chloroform	ND	1.0	99	95	4.1				70 - 130	30

QA/QC Data

SDG I.D.: GCB35613

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	1.0	96	91	5.3				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	103	98	5.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	98	96	2.1				70 - 130	30
Dibromochloromethane	ND	0.50	109	110	0.9				70 - 130	30
Dibromomethane	ND	1.0	102	101	1.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	102	95	7.1				70 - 130	30
Ethylbenzene	ND	1.0	103	96	7.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	103	102	1.0				70 - 130	30
Isopropylbenzene	ND	1.0	102	95	7.1				70 - 130	30
m&p-Xylene	ND	1.0	102	96	6.1				70 - 130	30
Methyl ethyl ketone	ND	5.0	90	96	6.5				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	105	105	0.0				70 - 130	30
Methylene chloride	ND	1.0	98	97	1.0				70 - 130	30
Naphthalene	ND	1.0	102	122	17.9				70 - 130	30
n-Butylbenzene	ND	1.0	102	96	6.1				70 - 130	30
n-Propylbenzene	ND	1.0	103	96	7.0				70 - 130	30
o-Xylene	ND	1.0	102	99	3.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	102	96	6.1				70 - 130	30
sec-Butylbenzene	ND	1.0	108	99	8.7				70 - 130	30
Styrene	ND	1.0	102	98	4.0				70 - 130	30
tert-butyl alcohol	ND	10	100	100	0.0				70 - 130	30
tert-Butylbenzene	ND	1.0	103	96	7.0				70 - 130	30
Tetrachloroethene	ND	1.0	103	97	6.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	98	97	1.0				70 - 130	30
Toluene	ND	1.0	100	96	4.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	104	95	9.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	96	97	1.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	102	103	1.0				70 - 130	30
Trichloroethene	ND	1.0	101	95	6.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	104	97	7.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	102	96	6.1				70 - 130	30
Vinyl chloride	ND	1.0	108	100	7.7				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0				70 - 130	30
% Bromofluorobenzene	100	%	101	100	1.0				70 - 130	30
% Dibromofluoromethane	102	%	98	101	3.0				70 - 130	30
% Toluene-d8	98	%	100	100	0.0				70 - 130	30

Comment:

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

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

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

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

Phyllis Shiller, Laboratory Director
October 01, 2018

Monday, October 01, 2018

Criteria: NY: 375GWP, GW

State: NY

Sample Criteria Exceedances Report

GCB35613 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB35613	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	0.84	0.70	0.7	0.7	ug/L
CB35613	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	7.9	1.0	2	2	ug/L
CB35613	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CB35613	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CB35613	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	13	1.0	5	5	ug/L
CB35613	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	7.9	1.0	2	2	ug/L
CB35613	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CB35614	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CB35614	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CB35614	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CB35615	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.4	0.70	0.7	0.7	ug/L
CB35615	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CB35615	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CB35615	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.4	0.70	1	1	ug/L
CB35615	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CB35616	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	0.90	0.70	0.7	0.7	ug/L
CB35616	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	6.6	1.0	2	2	ug/L
CB35616	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CB35616	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CB35616	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CB35616	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	6.1	1.0	5	5	ug/L
CB35616	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	6.6	1.0	2	2	ug/L
CB35617	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CB35617	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CB35617	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L

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

Analysis Comments

October 01, 2018 SDG I.D.: GCB35613

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

VOA Narration

CHEM02 09/23/18-1: CB35613, CB35614, CB35615, CB35616, CB35617

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 23% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.025 (0.05), 2-Hexanone 0.052 (0.1), 4-Methyl-2-pentanone 0.061 (0.1), Acetone 0.029 (0.1), Acrolein 0.019 (0.05), Acrylonitrile 0.038 (0.05), Bromoform 0.069 (0.1), Methyl ethyl ketone 0.041 (0.1), Tetrahydrofuran (THF) 0.027 (0.05)
The following Initial Calibration compounds did not meet minimum response factors: None.

The following Continuing Calibration compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.262 (0.3), 1,2-Dibromo-3-chloropropane 0.025 (0.05), Acrolein 0.016 (0.05), Acrylonitrile 0.037 (0.05), Bromoform 0.069 (0.1), Tetrahydrofuran (THF) 0.025 (0.05)
The following Continuing Calibration compounds did not meet minimum response factors: None.

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

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

October 01, 2018

SDG I.D.: GCB35613

The samples in this delivery group were received at 1.6°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp 0°C Pg 1 of 1

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Project: 34-11 Beach Channel Drive, Queens, NY Project P.O:
Report to: Environmental Business Consultants
Invoice to: Environmental Business Consultants

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: David Rukh Date: 9-19-18

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

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: VOC's 8260	Soil VOA Vials [ ]	GL Soil container [ ] methanol [ ] H2O	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
356013	15MW3	GW	9-19-18	8:15	X				3						
356014	15MW2	GW		9:23	X				3						
356015	15MW1	GW		10:30	X				3						
356016	Duplicates	GW			X				3						
356017	Trip blanks				X				2						

Relinquished by:	Accepted by:	Date:	Time:
David Rukh	[illegible]	9-20-18	12:30
	[illegible]	9-20-18	15:50

Comments, Special Requirements or Regulations:
Compare to GWP 375

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
[X] [redacted]
[X] NY EZ EDD (ASP)
[ ] Other

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

State where samples were collected: NY

January 22, 2019

Ms. Alicia A Barraza
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
Division of Spill Prevention and Response Programs
47-40 21st Street, Long Island City, New York 11101

Re: Quarterly Groundwater Sampling Report
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Queens, New York
NYSDEC BCP Number: C241141

Dear Ms. Barraza:

Please find the enclosed Quarterly Groundwater Sampling Report for the above referenced project for the fourth quarter of 2018. In accordance with the Site Management Plan (SMP), a round of groundwater sampling was performed on December 10, 2018 for 15MW1, 15MW2 and 15MW3.

If you have any questions or comments regarding the attached report, please do not hesitate to contact me.

Very truly yours,

Thomas Gallo
Environmental Geologist

Kevin Waters
Project Manager

Cc: J. O'Connell, NYSDEC
A. Arker, Bedford Park Associates LLC
S. Arker, Bedford Park Associates LLC
C. Sosik, EBC
A. Czemerinski, AMC
J. Brooks, Phillips Nizer

34-11 BEACH CHANNEL DRIVE SITE
NYSDEC BCP Number C241141
Project Status Report
4th Quarter 2018

Reporting Summary

Report Date:	December 28, 2018
Reporting Period:	4th Quarter of 2018
Site Status:	Building is under construction, currently working on interior
Work Performed this Quarter:	December 10, 2018 – Groundwater sampling events performed on the three on-site monitoring wells.
Remediation Status:	No chemical oxidant events were performed during this period. A chemical oxidant injection was last performed on December 18, 2015, January 2, 2016 and July 5,2016.

Monitoring Program Summary

No. of Wells:	3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Gauging Frequency:	Quarterly for the three monitoring wells.
Sampling Frequency:	Quarterly, 3 on-site monitoring wells (15MW1, 15MW2, 15MW3).
Reporting Frequency:	Groundwater Sampling Report (Quarterly).
Groundwater Depth:	5.5 ft (sidewalk grade)
GW Flow Direction:	Historically groundwater flow direction was to the west, but during the second quarter groundwater sampling event the groundwater flow direction was inconclusive.
Monitoring Results:	No product was detected within any of the monitoring wells.
Sampling Results:	VOCs were detected above NYSDEC GQS in all of the monitoring wells sampled during this event.

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OXIDANT INJECTIONS:

No chemical oxidant injections were performed during this period. Chemical Oxidant Injections were last performed on July 5, 2016.

LIQUID LEVEL MONITORING:

Depths to water readings were taken from the 3 monitoring wells with an electronic interface meter prior to purging the wells for sampling. As previously noted, no Liquid Phase Hydrocarbons (LPH) was detected in any of the monitoring wells or injections points during this quarter.

Groundwater elevation, as determined from the depth to water readings and casing elevation, was used to approximate groundwater contours and the groundwater flow direction for the site (**Figure 2)**. Groundwater elevation details are provided in **Table 1.** Historically groundwater flow direction was to the west, but during the fourth quarter groundwater sampling event the groundwater flow direction was inconclusive (**Figure 3**).

GROUNDWATER SAMPLING:

The 4Q18 groundwater sampling event was performed on December 10, 2018. The groundwater samples were collected from 15MW1, 15MW2 and I5MW3 in accordance with the low-flow groundwater sampling procedures outlined within the SMP. See (**Figure 1)** for the location of all site monitoring wells and chemical oxidant injection wells. A copy of each of the Well Purging-Field Water Quality Measurements Form is attached as (**Appendix A)**. The groundwater samples were picked up by laboratory dispatched courier and delivered to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). The groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) via EPA Method 8260.

Copies of the laboratory reports are attached as (**Appendix B)**. The laboratory results are summarized and compared to their appropriate standards/criteria in (**Table 2)** and to previous sampling events in **(Table 3A-3C)**.

GROUNDWATER SAMPLING RESULTS:

15MW1 – The VOC benzene (1.4 µg/L) was reported above NYSDEC Groundwater Quality Standards. Total VOC concentrations within 15MW1 decreased from 22.58 µg/L to 9.13 µg/L and CVOC concentrations have decreased from 21.74 µg/L to 2.70 µg/L when compared to the 3Q18 sampling event.

15MW2 – The VOC vinyl chloride (6 µg/L) was reported above NYSDEC Groundwater Quality Standards. Total VOC concentrations within 15MW2 have increased from 8.74 µg/L to 22.66 µg/L and CVOC concentrations have increased from 2.47 µg/L to 8.81 µg/L when compared to the 3Q18 sampling event.

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15MW3 - The VOC vinyl chloride (2 µg/L) was reported above NYSDEC Groundwater Quality Standards. Total VOC concentrations within 15MW3 increased from 6.77 µg/L to 9.88 µg/L and CVOC concentrations have increased from 3.84 µg/L to 5.90 µg/L when compared to the 3Q18 sampling event.

GROUNDWATER VOC CONCENTRATION TRENDS:

As depicted in the concentration graphs **(Graphs 1-3)**, remedial efforts from 2015 through 2016 resulted in a significant reduction in CVOC concentrations in the current focus area as defined by wells 15MW1, 15MW2 and 15MW3. The total VOC and CVOC concentration within 15MW1 decreased during this sampling event, with only benzene reported above NYSDEC GQS. The total VOC and CVOC concentrations within 15MW2 and 15MW3 increased during this sampling event. Although the CVOC and total VOC concentrations increased when compared to the 3Q18 sampling event the overall VOC concentrations are significantly lower than the pre-treatment concentrations.

FUTURE PLANS / RECOMMENDATIONS:

Remedial efforts at the Site have been successful in significantly reducing the overall chlorinated VOCs in groundwater. Water quality is expected to continue to improve over time. The rebound of chlorinated VOCs that had been observed in 15MW3 during the 4Q16 and 1Q17 sampling has continued on a downward trend since the 1Q17 sampling event with vinyl chloride being reported at or above the NYSDEC GQS during the 4Q18 sampling event.

Vinyl chloride was the only CVOC reported at or above NYSDEC GQS in 15MW2 and 15MW3. Benzene was reported just above the NYSDEC GQS in 15MW1. Although VOCs were detected above NYSDEC GQS in all of the wells during this sampling event, the levels reported were either detected slightly above or at their respective GQS. EBC therefore requests the termination of groundwater monitoring based on the low levels of VOC concentrations observed during the 3Q18 and the 4Q18 sampling events.

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TABLES

34-11 Beach Channel Drive Site
34-11 Beach Chanel Drive, Far Rockaway, NY

Table 1
Well Survey Data

Well No.	Well Diameter (in)	Total Well Depth (ft)	Screened Interval (ft)	Survey Reading	Casing Elevation	DTW 12/10/2018	DTP	PT	GW ELV 12/10/2018
15MW1	1	30	15 to 30	**6.26**	**93.74**	**5.82**	**-**	**-**	**87.92**
15MW2	1	30	15 to 30	**5.40**	**94.6**	**4.75**	**-**	**-**	**89.85**
15MW3	1	30	15 to 30	**5.90**	**94.10**	**6.70**	**-**	**-**	**87.40**

TABLE 3A
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW1

COMPOUND	NYSDEC Ambient Water Quality Standards	15MW1		15MW2		15MW3	
		12/10/2018		12/10/2018		12/10/2018	
	µg/L	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 1.0	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
1,2-Dibromoethane		< 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
1,2-Dichloroethane	0.6	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 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
1,3-Dichloropropane	5	< 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
1,4-dioxane		< 100	100	< 100	100	< 100	100
2-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Hexanone		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Isopropyltoluene	5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
2,2-Dichloropropane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		**4.6**	5.0	**8.9**	5.0	**3.4**	5.0
Acrolein	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	**1.4**	0.70	**0.35**	0.70	**0.58**	0.70
Bromobenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 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
Bromomethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon Tetrachloride	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Chlorobenzene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloromethane	60	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	**1.1**	1.0	**2.5**	1.0	**3.3**	1.0
cis-1,3-Dichloropropene		< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethyl Benzene	5	< 1.0	1.0	**0.36**	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m/p-Xylenes	5	< 1.0	1.0	**1.4**	1.0	< 1.0	1.0
Methyl ethyl ketone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl tert-butyl Ether	10	**0.43**	1.0	< 1.0	1.0	< 1.0	1.0
Methylene Chloride	5	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 1.0	1.0	**1.9**	1.0	< 1.0	1.0
n-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 1.0	1.0	**0.94**	1.0	< 1.0	1.0
p-Isopropyltoluene		< 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
Styrene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**1.6**	5.0	**0.31**	5.0	**0.6**	5.0
trans-1,3-Dichloropropene	0.4	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	< 1.0	1.0	**6**	1.0	**2**	1.0
Total Chlorinated VOC		**2.70**		**8.81**		**5.90**	
Total Petroleum VOC		**6.43**		**13.85**		**3.98**	
Total VOCs		**9.13**		**22.66**		**9.88**	

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

TABLE 3A
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW1

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW1																							
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L		6/15/2018 µg/L		9/19/2018 µg/L		12/10/2018 µg/L	
		Result	RL	Result	RL	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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	**8.2**	5.0	**1.1**	1.0	**0.78**	1.0	< 1.0	1.0	**1.4**	5.0	**0.58**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	0.29	1.0	0.29	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.3	1.3	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 4.7	4.7	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 2.5	2.5	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.3	1.3	< 1.0	1.0	< 1.0	1.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4**	1.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	**3.5**	5.0	**4.3**	5.0	< 5.0	5.0	< 25	25	**5.7**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**3.2**	5.0	< 10	10	**4.6**	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.1	0.70	**0.84**	0.70	**0.25**	0.70	< 1.3	1.3	**0.56**	0.70	**1.1**	0.70	**1.8**	0.70	**1.70**	0.70	**1.5**	0.70	**0.84**	0.70	**1.4**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 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	< 5.0	5.0	< 5.0	5.0	< 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	**0.29**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroform	7	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 7.0	7.0	< 5.0	5.0	< 5.0	5.0	< 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	**0.74**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 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	**6,000**	400	**300**	20	**230**	10	**51**	5.0	**690**	13	**300**	20	**76**	10	**17**	1.0	**5.40**	1.0	**1.8**	1.0	**13**	1.0	**1.1**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 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)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 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	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.38**	1.0	**0.5**	1.0	**0.38**	1.0	**0.4**	1.0	< 1.0	1.0	**0.43**	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.32**	1.0	**0.43**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 25	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**220**	100	**22**	5.0	**9.7**	5.0	**4.7**	5.0	**11**	5.0	**6.7**	5.0	**3.3**	5.0	**4.3**	5.0	**2.10**	5.0	**2.4**	5.0	**0.84**	5.0	**1.6**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 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	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**11**	5.0	< 1.0	1.0	**0.3**	1.0	**0.37**	1.0	< 5.0	5.0	**0.26**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**4,900**	400	**420**	20	**130**	10	**80**	2.5	**320**	13	**160**	20	**100**	10	**27**	1.0	**17**	1.0	**0.66**	1.0	**7.9**	1.0	< 1.0	1.0
CVOCs		**11,139.20**		**743.10**		**371.52**		**140.07**		**1,022.40**		**467.83**		**179.30**		**48.65**		**24.79**		**5.15**		**21.74**		**2.70**	
PVOCs		**0.0**		**4.6**		**5.1**		**0.3**		**0.0**		**6.3**		**1.8**		**1.8**		**2.1**		**5.1**		**0.84**		**6.43**	
Total VOCs		**11,139.20**		**747.70**		**376.66**		**140.32**		**1,022.40**		**474.09**		**181.10**		**50.45**		**26.87**		**10.25**		**22.58**		**9.13**	

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

TABLE 3B
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW2

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW2																							
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L		6/15/2018 µg/L		9/19/2018 µg/L		12/10/2018 µg/L	
		Result	RL	Result	RL	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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 1.0	1.0	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 10	10	< 1.0	1.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 10	10	< 2.5	2.5	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 5.0	5.0	< 1.3	1.3	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 4.7	4.7	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 5.0	5.0	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 10	10	< 2.5	2.5	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.3	1.3	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**4.40**	1.0	< 1.0	1.0	< 5.0	5.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	**17.00**	25	**16**	5.0	< 5.0	5.0	**15**	5.0	< 10	10	**8.9**	5.0
Acrolein		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 13	13	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	< 5.0	5.0	1.10	0.70	**0.80**	0.70	**0.77**	7.0	**0.74**	0.70	< 5.1	5.0	< 1.3	1.3	**0.38**	0.70	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70	**0.35**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 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	< 50	50	< 25	25	< 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	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 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	< 5.0	5.0	< 5.0	5.0	< 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	< 7.0	7.0	< 7.0	7.0	< 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	< 5.0	5.0	< 5.0	5.0	< 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	**1400**	5.0	**25**	1.0	**18**	1.0	**10**	5.0	**5.50**	1.0	**12**	20	**440**	20	**25**	1.0	**5.9**	1.0	**3.7**	1.0	**0.87**	1.0	**2.5**	1.0
cis-1,3-Dichloropropene		< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**4600**	400	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**0.35**	1.0	**0.67**	1.0	**0.36**	1.0
Hexachlorobutadiene	0.5	< 5.0	5.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 1.0	1.0	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**28**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 20	20	< 1.0	1.0	< 1.0	1.0	0.26	1.0	< 1.0	1.0	**28,000**	######	< 5.0	5.0	**0.39**	1.0	**0.54**	1.0	**1.1**	1.0	**2.7**	1.0	**1.4**	1.0
Methyl Ethyl Ketone (2-Butanone)		< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	**3**	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Methylene chloride	5	< 20	20	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 20	20	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 5.0	5.0	< 1.0	1.0	**1.5**	1.0	**1.7**	1.0	**1.2**	1.0	**1.9**	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**1.7**	1.0	**0.94**	1.0
o-Xylene	5	< 5.0	5.0	**0.86**	1.0	**0.71**	1.0	**0.95**	1.0	< 1.0	1.0	**10,000**	400	< 5.0	5.0	**0.34**	1.0	**0.36**	1.0	**0.79**	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 50	50	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 50	50	< 25	25	< 5.0	5.0	**7**	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**32**	20	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**14**	5.0	**5.50**	5.0	**4.60**	5.0	**5.10**	5.0	**5.10**	5.0	< 5.0	5.0	**6.40**	25	**1.9**	5.0	**0.37**	5.0	**0.26**	5.0	< 5.0	5.0	**0.31**	5.0
trans-1,3-Dichloropropene	0.4	< 5.0	5.0	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 1.3	1.3	< 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	< 50	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 50	50	< 13	13	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	**14**	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**570**	5.0	**240**	20	**160**	10	**43**	2.0	**1.10**	1.0	< 5.0	5.0	**480**	20	**39**	20	**27**	1.0	**14**	1.0	**1.6**	1.0	**6**	1.0
CVOCs		**1,998.00**		**270.50**		**182.60**		**62.50**		**11.70**		**12.00**		**926.40**		**65.90**		**33.27**		**17.96**		**2.47**		**8.81**	
PVOCs		**0.0**		**2.0**		**1.5**		**2.0**		**0.7**		**42,660.0**		**17.0**		**0.7**		**9.4**		**18.9**		**6.3**		**13.9**	
Total VOCs		**1,998.00**		**272.46**		**184.11**		**64.48**		**12.44**		**42,672.00**		**943.40**		**66.63**		**42.67**		**36.90**		**8.74**		**22.66**	

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

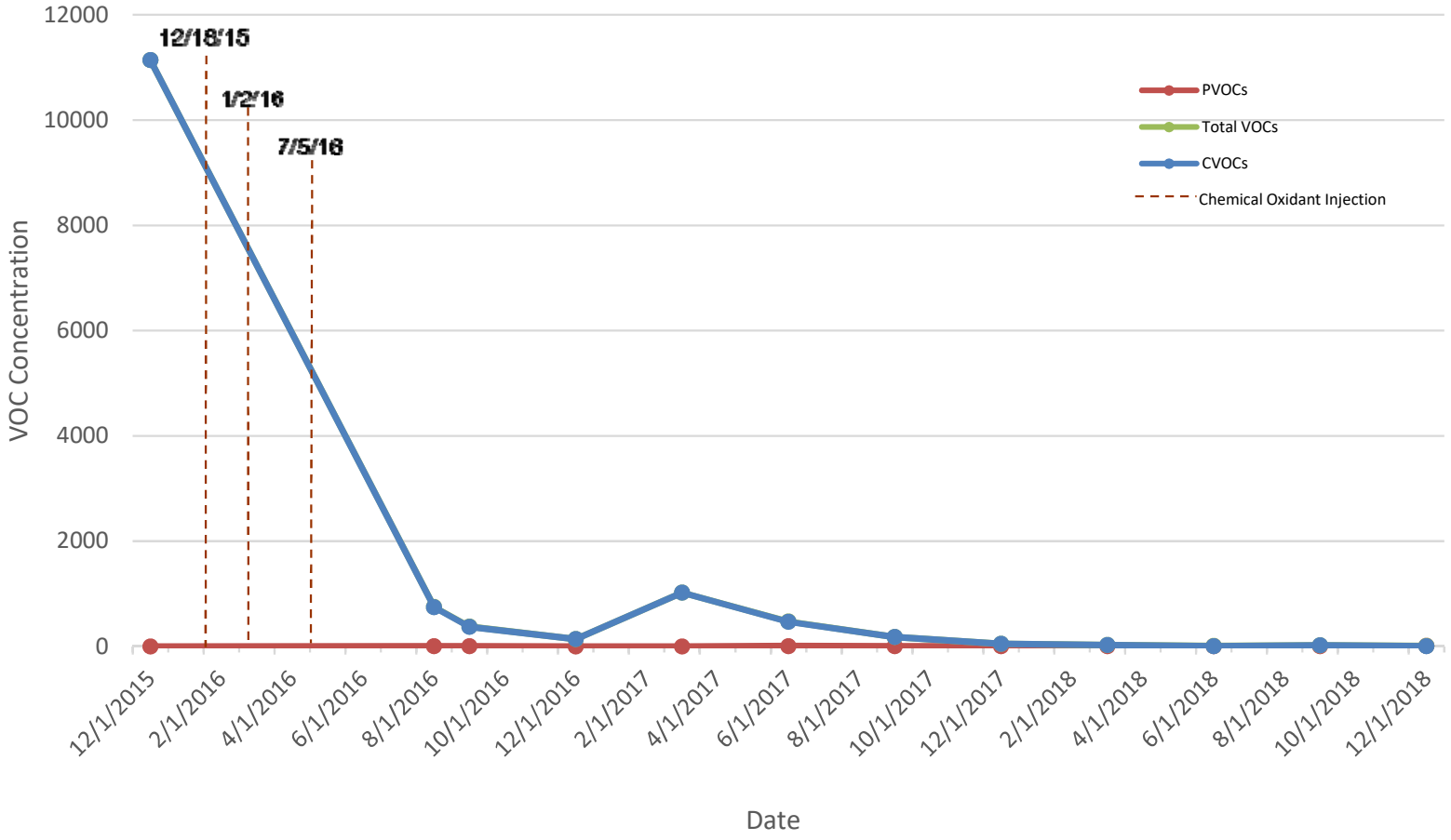
TABLE 3C
34-11 Beach Channel Drive Site
34-11 Beach Channel Drive, Far Rockaway, New York
Groundwater Analytical Results
Volatile Organic Compounds
15MW3

Compound	NYSDEC Groundwater Quality Standards µg/L	15MW3																							
		12/18/2015 µg/L		8/5/2016 µg/L		9/20/2016 µg/L		12/20/2016 µg/L		3/27/2017 µg/L		6/8/2017 µg/L		9/18/2017 µg/L		12/13/2017 µg/L		3/23/2018 µg/L		6/15/2018 µg/L		9/19/2018 µg/L		12/10/2018 µg/L	
		Result	RL	Result	RL	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	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0
1,1-Dichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**51**	5.0	**110**	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.32**	1.0	< 1.0	1.0	<0.5	0.50	<0.5	0.50	< 1.0	1.0	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 10	10	< 10	10	-	-	< 0.50	0.50	< 0.50	0.50	< 0.25	0.25	< 0.25	0.25	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene	5	< 4.0	4.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 3.0	3.0	< 0.60	0.60	< 0.60	0.60	< 10	10	< 10	10	-	-	< 0.60	0.60	< 0.60	0.60	< 1.0	1.0	< 1.0	1.0	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	0.94	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	5	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-dioxane		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
2-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 1.0	1.0
2-Hexanone (Methyl Butyl Ketone)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5.0	5.0	< 1.0	1.0	< 2.5	2.5
2-Isopropyltoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Chlorotoluene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone		**15**	25	< 5.0	5.0	**2.7**	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	**2.8**	5.0	< 10	10	**3.4**	5.0
Acrolein		< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Acrylonitrile	5	< 13	13	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Benzene	1	**7.5**	3.5	0.49	0.70	**0.75**	0.70	< 5.0	5.0	< 5.0	5.0	-	-	**2.2**	0.70	**1.1**	0.70	**0.6**	0.70	**0.73**	0.70	**1.4**	0.70	**0.58**	0.70
Bromobenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromochloromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromodichloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Bromoform		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 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	< 50	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Carbon Disulfide	60	**2.3**	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.29**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Carbon tetrachloride	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 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	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Chloroethane	5	**20**	25	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	< 5.0	5.0	< 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	< 7.0	7.0	< 7.0	7.0	-	-	< 5.0	5.0	< 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	0.3	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.41**	5.0	< 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	**430**	20	**72**	10	**24**	1.0	**11,000**	100	**21,000**	250	-	-	**29**	20	**26**	1.0	**9**	1.0	**6**	1.0	**1.4**	1.0	**3.3**	1.0
cis-1,3-Dichloropropene		< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
Dibromochloromethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dibromomethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Dichlorodifluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Ethylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.3**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Hexachlorobutadiene	0.5	< 2.5	2.5	< 0.50	0.50	< 0.50	0.50	< 4.0	4.0	< 4.0	4.0	-	-	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.27**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
m&p-Xylenes	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**0.33**	1.0	< 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)		< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 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	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**0.43**	1.0	< 1.0	1.0
Methylene chloride	5	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 20	20	< 20	20	-	-	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 20	20	< 20	20	-	-	**1.7**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	**1.1**	1.0	< 1.0	1.0
n-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
n-Propylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
o-Xylene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	**0.34**	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
sec-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Styrene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tert-butyl alcohol		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 50	50	< 50	50	< 50	50	< 50	50
tert-Butylbenzene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrachloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Tetrahydrofuran (THF)		< 25	25	< 5.0	5.0	< 5.0	5.0	< 50	50	< 50	50	-	-	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Toluene	5	**2.5**	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	**11**	25	**1**	5.0	**0.96**	5.0	**26**	5.0	**65**	5.0	-	-	**0.89**	5.0	**1**	5.0	**0.64**	5.0	**0.54**	5.0	**2.1**	5.0	**0.6**	5.0
trans-1,3-Dichloropropene	0.4	< 2.0	2.0	< 0.40	0.40	< 0.40	0.40	< 5.0	5.0	< 5.0	5.0	-	-	< 0.40	0.40	< 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	< 13	13	< 2.5	2.5	< 2.5	2.5	< 50	50	< 50	50	-	-	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	**1,200**	100	**2,300**	50	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane		< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	-	-	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Vinyl Chloride	2	**150**	20	**49**	10	**18**	1.0	**3,900**	100	**5,600**	50	-	-	**24**	20	**43**	1.0	**18**	1.0	**5**	1.0	**0.34**	1.0	**2**	1.0
CVOCs		**611.0**		**122.3**		**43.0**		**16,177.0**		**29,075.0**		**-**		**54.30**		**70.0**		**28.04**		**11.24**		**3.84**		**5.90**	
PVOCs		**27.3**		**0.5**		**3.5**		**0.0**		**0.0**		**-**		**5.75**		**0.0**		**0.60**		**3.53**		**2.93**		**3.98**	
Total VOCs		**638.3**		**122.8**		**46.4**		**16,177.0**		**29,075.0**		**-**		**60.05**		**70.0**		**28.64**		**14.77**		**6.77**		**9.88**	

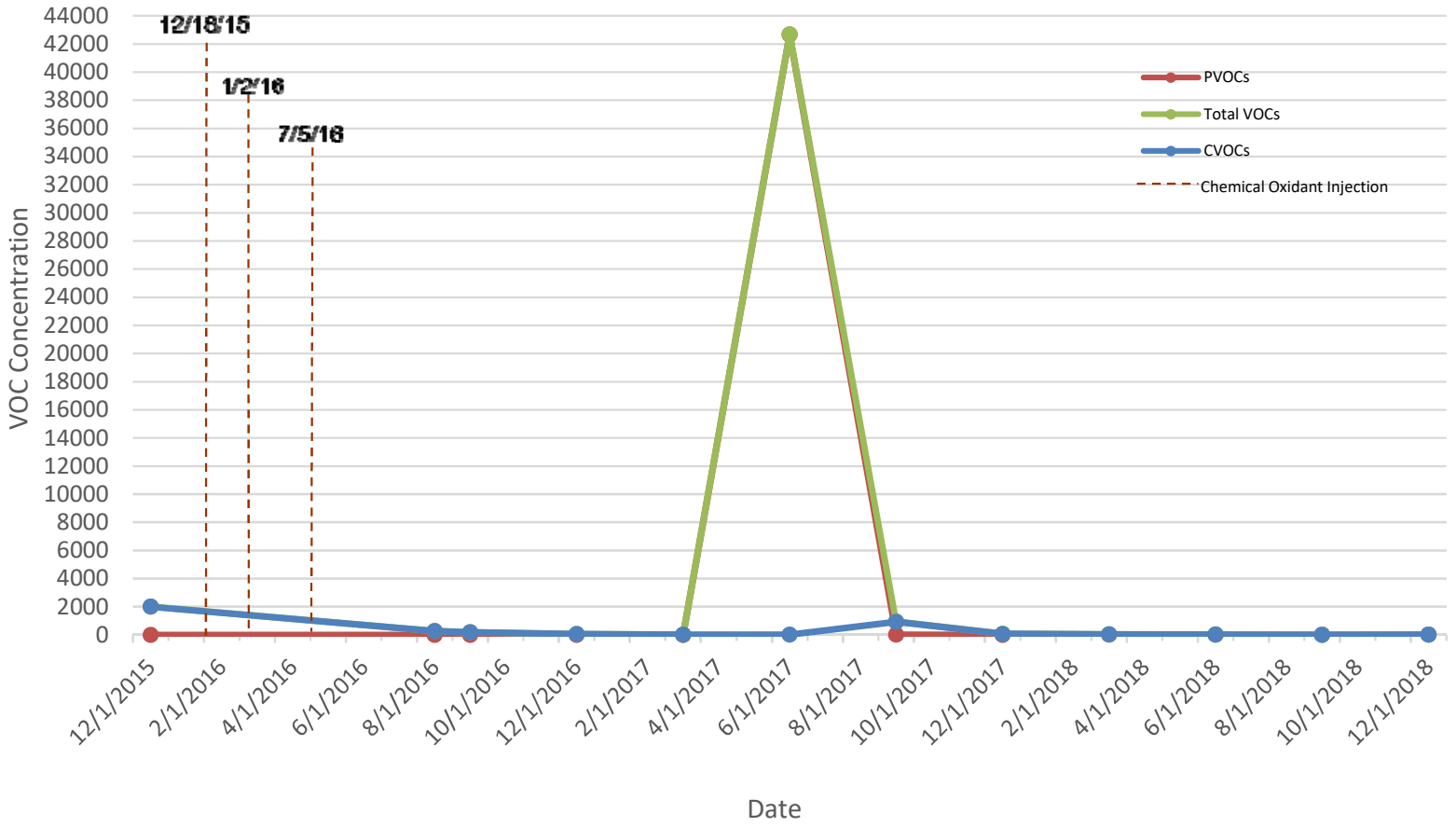
Notes:
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

GRAPHS

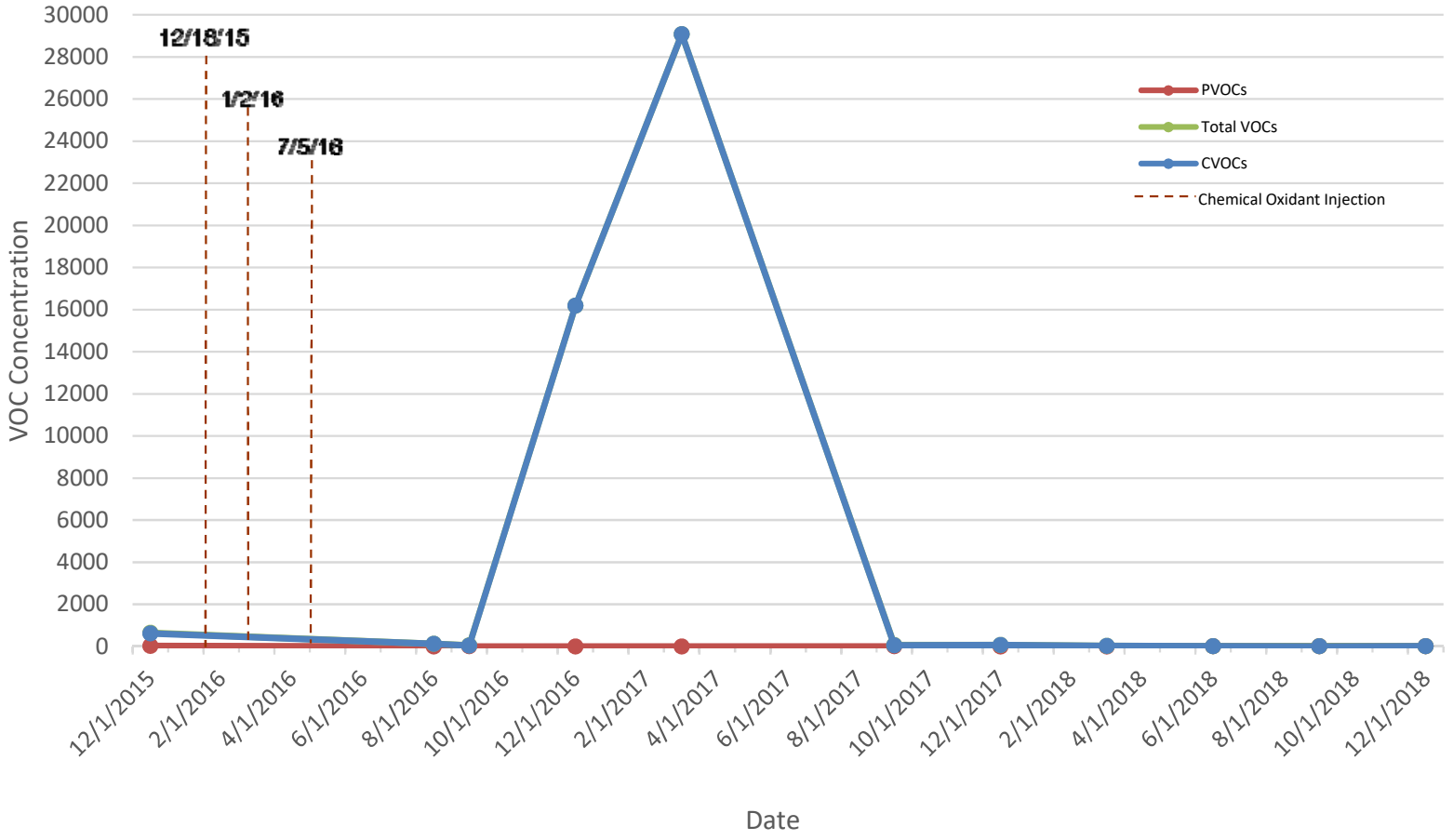
Graph 1
15MW1 VOCs
34-11 Beach Channel Drive, Queens, NY
December 2015 - December 2018



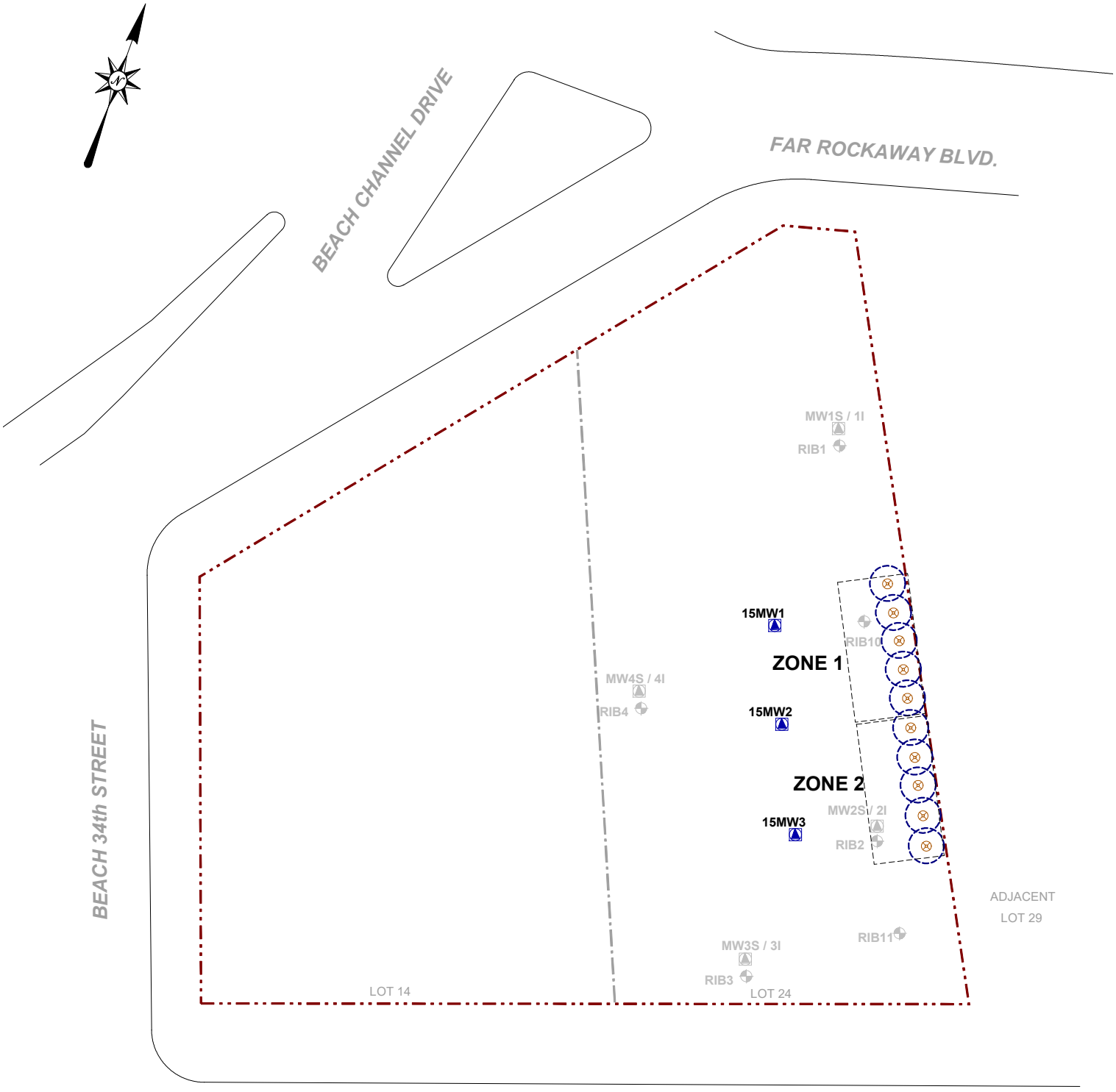
Graph 2
15MW2 VOCs
34-11 Beach Channel Drive, Queens, NY
December 2015 - December 2018



Graph 3
15MW3 VOCs
34-11 Beach Channel Drive, Queens, NY
December 2015 - December 2018



FIGURES



SCALE

0 20 40

1 inch = 40 feet

KEY

- Site Boundary
- MWx — RI Monitoring Well
- RIBx — RI Soil Boring
- 15MWx — ISCO Performance Monitoring Well
- ROI (5 ft) — Oxidant Injection Location

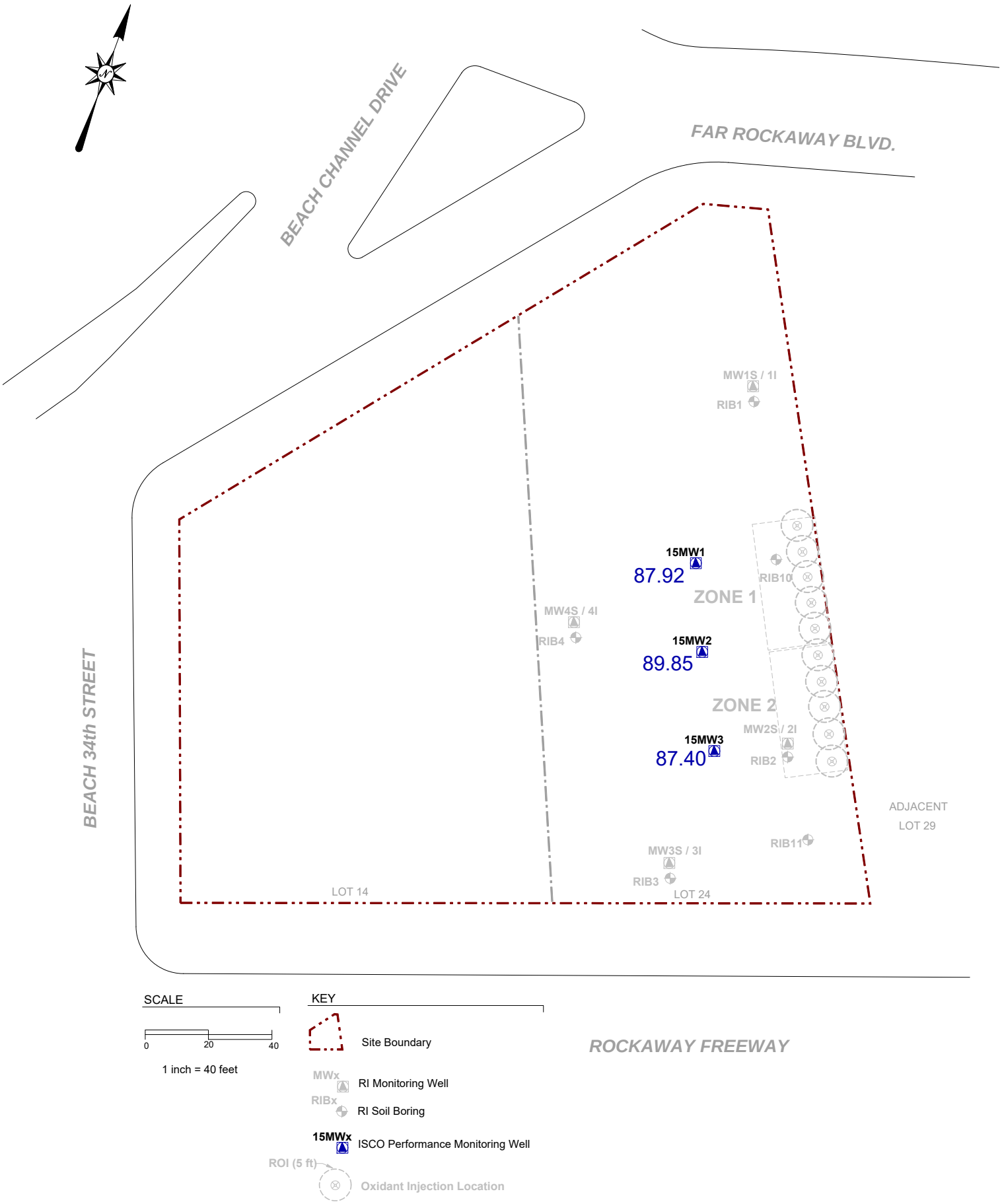
EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 1

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Injection and Monitoring Well Locations



EBC
Environmental Business Consultants
Phone 631.504.6000
Fax 631. 924 .2870

Figure No. 2

Site Name: 34-11 Beach Channel Drive Site

Site Address: 34-11 Beach Channel Drive, Far Rockaway, NY

Drawing Title: Groundwater Elevation Map

LEGEND:

- SHALLOW WELLS WITH GROUNDWATER RELATIVE ELEVATION (FEET) — MW-1S (15.86)
- GROUNDWATER FLOW DIRECTION
- 16.0 — WATER TABLE CONTOURS (WESTERN WELLS)
- 16.1 — WATER TABLE CONTOURS (EASTERN WELLS)

FPM GROUP

FIGURE 3
JANUARY 2015
SHALLOW GROUNDWATER
RELATIVE ELEVATION CONTOURS

34-11 BEACH CHANNEL DRIVE SITE
FAR ROCKAWAY, QUEENS, NEW YORK

Drawn By: H.C.	Checked By: S.D.	Date 2/9/2015

H:\ALPROF\RI FIGURES\JANUARY 2015 SHALLOW GW ELEV.dwg, 2/9/2015 2:36:37 PM, Letter

APPENDIX A

WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORMS

GROUNDWATER PURGE / SAMPLE LOGS

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW1

Date: 12-10-18

Well Depth (from TOC): 29.5 ft

Equipment:

Static Water Level (from TOC): 5.82 ft

Geo Pump, Horiba

Height of Water in Well: 23.68 ft

Gallons of Water per Well Volume: 0

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Turbidity (NTU)	Comments
12.30pm		0.0	6.96	6.57	13.57	3.24	326	Turbid, light brown.
12.33pm		0.4	6.84	7.17	14.37	2.07	153	Turbid, light brown.
12.38pm		1.1	6.82	7.23	14.58	1.21	136	Turbid, light brown.
12.43pm		2.0	6.51	7.06	14.53	0.80	38.9	Clear
12.48pm		3.0	6.31	6.94	14.58	0.55	67.1	Clear
12.53pm		3.8	6.80	6.85	14.55	0.66	49.3	Clear
12.58pm		4.5	6.80	6.87	14.53	0.67	42.3	Clear / Sample d

GROUNDWATER PURGE / SAMPLE LOGS

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW2

Date: 12-10-18

Well Depth (from TOC): 28.6ft

Equipment:

Static Water Level (from TOC): 4.75 ft

GeoPump, Horiba

Height of Water in Well: 23.85 ~~ft~~ 0

Gallons of Water per Well Volume: 0

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Turbidity NTU	Comments
01.18pm		0.0	7.39	1.81	14.19	1.37	43.3	Turbid, light brown
01.21pm		0.5	7.45	1.59	15.03	0.17	33.7	Turbid, light brown
01.26pm		1.1	7.51	1.69	14.99	0.33	32.1	Clear
01.31pm		2.4	7.49	1.62	14.98	0.30	17.7	Clear
01.36pm		3.8	7.50	1.65	14.96	0.27	6.0	Clear
01.41pm		4.5	7.50	1.62	14.97	0.28	5.9	Clear
01.46pm		5.6	7.51	1.62	14.95	0.25	6.1	Clear/Sampled

GROUNDWATER PURGE / SAMPLE LOGS

34-11 Beach Channel Drive

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: 15MW3

Date: 12-10-18

Well Depth (from TOC): 28.4 ft

Equipment:

Static Water Level (from TOC): 6.7 ft

GeoPump, Horiba

Height of Water in Well: 21.7 ft 0

Gallons of Water per Well Volume: 0

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Turbidity NTU	Comments
02.10 pm		0.0	6.90	5.98	13.08	1.50	191	Turbid, Brown
02.13 pm		0.5	6.84	5.77	14.09	0.0	172	Turbid, light brown
02.18 pm		1.1	6.83	5.41	14.42	0.0	163	Turbid, light brown
02.23 pm		2.0	6.84	5.21	14.40	0.0	155	Clear
02.28 pm		3.1	6.84	5.23	14.39	0.0	88.1	clear
02.33 pm		3.9	6.84	5.21	14.27	0.0	65.5	clear
02.38 pm		4.8	6.85	5.10	14.26	0.0	42.0	Clear
02.43 pm		5.6	6.84	5.12	14.27	0.0	45.2	Clear / sampled

APPENDIX B

Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Monday, December 17, 2018

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

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Sample ID#s: CC12366 - CC12369

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

December 17, 2018

SDG I.D.: GCC12366

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

December 17, 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:	TC	12/10/18	
Location Code:	EBC	Received by:	CP	12/11/18	16:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC12366
Phoenix ID: CC12366

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW1

Phoenix I.D.: CC12366

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	4.6	JS	5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Benzene	1.4		0.70	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
cis-1,2-Dichloroethene	1.1		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/13/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	0.43	J	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/13/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/13/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,2-Dichloroethene	1.6	J	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Vinyl chloride	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	100				%	1	12/13/18	MH	70 - 130 %	
% Bromofluorobenzene	97				%	1	12/13/18	MH	70 - 130 %	
% Dibromofluoromethane	99				%	1	12/13/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW1

Phoenix I.D.: CC12366

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/13/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	12/13/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/13/18	MH	SW8260C
Acrylonitrile	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	12/13/18	MH	SW8260C

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

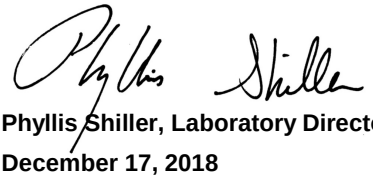
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab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

Comments:

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director
December 17, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 17, 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:	TC	12/10/18	
Location Code:	EBC	Received by:	CP	12/11/18	16:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC12366
Phoenix ID: CC12367

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW2

Phoenix I.D.: CC12367

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	8.9	S	5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Benzene	0.35	J	0.70	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
cis-1,2-Dichloroethene	2.5		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Ethylbenzene	0.36	J	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/13/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
m&p-Xylene	1.4		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/13/18	MH	SW8260C	
Naphthalene	1.9		1.0	1.0	ug/L	1	12/13/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
o-Xylene	0.94	J	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,2-Dichloroethene	0.31	J	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Vinyl chloride	6.0		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	12/13/18	MH	70 - 130 %	
% Bromofluorobenzene	97				%	1	12/13/18	MH	70 - 130 %	
% Dibromofluoromethane	99				%	1	12/13/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW2

Phoenix I.D.: CC12367

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98			%	1	12/13/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	12/13/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/13/18	MH	SW8260C
Acrylonitrile	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	12/13/18	MH	SW8260C

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

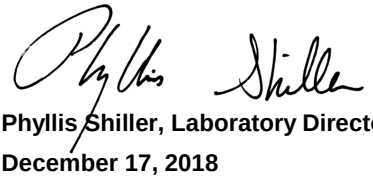
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab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

Comments:

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director
December 17, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 17, 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:	TC	12/10/18	
Location Code:	EBC	Received by:	CP	12/11/18	16:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC12366
Phoenix ID: CC12368

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/13/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW3

Phoenix I.D.: CC12368

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	3.4	JS	5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Acrolein	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Acrylonitrile	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	
Benzene	0.58	J	0.70	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromobenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromochloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromoform	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Bromomethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chlorobenzene	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloroethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloroform	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Chloromethane	ND		5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
cis-1,2-Dichloroethene	3.3		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dibromomethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Ethylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	12/13/18	MH	SW8260C	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
m&p-Xylene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Methylene chloride	ND		3.0	1.0	ug/L	1	12/13/18	MH	SW8260C	
Naphthalene	ND		1.0	1.0	ug/L	1	12/13/18	MH	SW8260C	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
o-Xylene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Styrene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	12/13/18	MH	SW8260C	1
Toluene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,2-Dichloroethene	0.60	J	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	12/13/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	12/13/18	MH	SW8260C	
Trichloroethene	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
Vinyl chloride	2.0		1.0	0.25	ug/L	1	12/13/18	MH	SW8260C	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	12/13/18	MH	70 - 130 %	
% Bromofluorobenzene	95				%	1	12/13/18	MH	70 - 130 %	
% Dibromofluoromethane	97				%	1	12/13/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: 15MW3

Phoenix I.D.: CC12368

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	12/13/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	12/13/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/13/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/13/18	MH	SW8260C
Acrylonitrile	ND	5.0	0.25	ug/L	1	12/13/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	12/13/18	MH	SW8260C

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

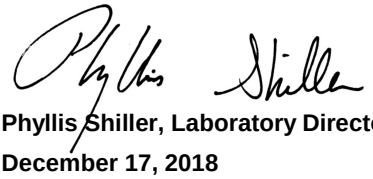
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab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

Comments:

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

S - Laboratory solvent, contamination is possible.

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



Phyllis Shiller, Laboratory Director
December 17, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

December 17, 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:	TC	12/10/18	
Location Code:	EBC	Received by:	CP	12/11/18	16:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC12366
Phoenix ID: CC12369

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: TRIP BLANKS

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	12/11/18	MH	SW8260C	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	12/11/18	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
2-Hexanone	ND	2.5	2.5	ug/L	1	12/11/18	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	12/11/18	MH	SW8260C	

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: TRIP BLANKS

Phoenix I.D.: CC12369

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	5.0	2.5	ug/L	1	12/11/18	MH	SW8260C	
Acrolein	ND	5.0	2.5	ug/L	1	12/11/18	MH	SW8260C	
Acrylonitrile	ND	5.0	2.5	ug/L	1	12/11/18	MH	SW8260C	
Benzene	ND	0.70	0.25	ug/L	1	12/11/18	MH	SW8260C	
Bromobenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Bromochloromethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Bromoform	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Bromomethane	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Chlorobenzene	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Chloroethane	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Chloroform	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Chloromethane	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/18	MH	SW8260C	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Dibromomethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Ethylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	12/11/18	MH	SW8260C	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
m&p-Xylene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	12/11/18	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Methylene chloride	ND	3.0	1.0	ug/L	1	12/11/18	MH	SW8260C	
Naphthalene	ND	1.0	1.0	ug/L	1	12/11/18	MH	SW8260C	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
o-Xylene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Styrene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	12/11/18	MH	SW8260C	1
Toluene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/11/18	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	12/11/18	MH	SW8260C	
Trichloroethene	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
Vinyl chloride	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	100			%	1	12/11/18	MH	70 - 130 %	
% Bromofluorobenzene	93			%	1	12/11/18	MH	70 - 130 %	
% Dibromofluoromethane	102			%	1	12/11/18	MH	70 - 130 %	

Ver 1

Project ID: 34-11 BEACH CHANNEL DRIVE, QUEENS
Client ID: TRIP BLANKS

Phoenix I.D.: CC12369

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102			%	1	12/11/18	MH	70 - 130 %
1,4-dioxane								
1,4-dioxane	ND	100	50	ug/l	1	12/11/18	MH	SW8260C
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	12/11/18	MH	SW8260C
Acrolein	ND	5.0	2.5	ug/L	1	12/11/18	MH	SW8260C
Acrylonitrile	ND	5.0	0.25	ug/L	1	12/11/18	MH	SW8260C
Tert-butyl alcohol	ND	50	10	ug/L	1	12/11/18	MH	SW8260C

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

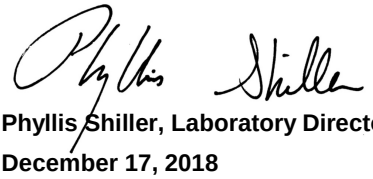
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis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

Comments:

TRIP BLANK INCLUDED.

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

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



Phyllis Shiller, Laboratory Director
December 17, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Monday, December 17, 2018

Criteria: NY: 375GWP, GW

State: NY

Sample Criteria Exceedances Report

GCC12366 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC12366	$8260DP25R	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.4	0.70	0.7	0.7	ug/L
CC12366	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC12366	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC12366	$8260DP25R	Benzene	NY / TOGS - Water Quality / GA Criteria	1.4	0.70	1	1	ug/L
CC12366	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC12367	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	6.0	1.0	2	2	ug/L
CC12367	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC12367	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC12367	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	6.0	1.0	2	2	ug/L
CC12367	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC12368	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC12368	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CC12368	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC12369	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CC12369	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CC12369	$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

December 17, 2018

SDG I.D.: GCC12366

The samples in this delivery group were received at 3.8°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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
[✓] Email: File

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

Project: 34-11 Beach Channel Drive, Queens
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: Lenzen Chwejing Date: 12-10-18

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	Soil VOA Vials [ ]	GL Soil container [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
123160	15 MW1	GW	12-10-18		X					3						
123167	15 MW2	↓	↓		X					3						
123168	15 MW3				X					3						
123169	Trip blanks				X					2						

Relinquished by:	Accepted by:	Date:	Time:
		12-11-18	12:30
		12-11-18	16:40

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] 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
[ ] 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