

69-02 QUEENS BOULEVARD

46-09 69th Street and 46-10 70th Street
WOODSIDE, NEW YORK
Block 2432, Lots 8 and 9

SITE MANAGEMENT PLAN

NYSDEC Site Number: C241235

Prepared for:

QB Development Owner LLC
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New York, NY 10012

Prepared by:



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Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date

NOVEMBER 2021

CERTIFICATION STATEMENT

I, Ariel Czemerinski, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

076508

NYS Professional Engineer #

11/30/2021

Date

Signature



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Woodside, Queens

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LIST OF ACRONYMS

Acronym	Definition
AMC	AMC Engineering
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
CAMP	Community Air Monitoring Plan
CFR	Code of Federal Regulation
COC	Certificate of Completion
CQMP	Construction Quality Management Plan
DER	Division of Environmental Remediation
DUSR	Data Usability Statement Report
EBC	Environmental Business Consultants
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
EWP	Excavation Work Plan
FER	Final Engineering Report
HASP	Health and Safety Plan
HDPE	High Density Polyethylene
IC	Institutional Control
IRM	Interim Remedial Measure
NYC	New York City
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PID	Photo-Ionization Detector
PRR	Periodic Review Report
PS	Public School
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
RSCOs	Recommended Site Cleanup Objectives
SCO	Soil Cleanup Objectives
SMP	Site Management Plan
SMMP	Soil/Materials Management Plan

SSDS	Sub-slab Depressurization System
SWPPP	Stormwater Pollution Prevention Plan
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

ES EXECUTIVE SUMMARY

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance and reporting activities required by this Site Management Plan:

Site Identification	Site No: C241235 – 69-02 Queens Boulevard 46-09 69 th Street and 46-10 70 th Street, Woodside, New York 11377
Institutional Controls:	1. The portions of the property covered by the environmental easement may be used for restricted residential, commercial, and industrial uses as indicated in the easement and in the detailed sections below (subject to applicable zoning). The balance of the Site that is not covered by the environmental easement has been remediated to Track 1 Unrestricted Use standards and no use restrictions apply (see environmental easement); 2. IC - An Environmental Easement will be recorded for the Track 4 portion of the Site that requires the following: • The Track 4 portion of the Site may be used for: restricted residential, commercial, or industrial use; • All ECs on the Track 4 portion of the Site must be operated and maintained as specified in this SMP; • All ECs on the Track 4 portion of the Site must be inspected at a frequency and in a manner defined in this SMP; • The use of groundwater underlying the Track 4 portion of the Site is prohibited without necessary water quality treatment as determined by the NYSDOH to render it safe for its intended purpose, and the user must first notify and obtain written approval to do so from the Department; • Groundwater and other environmental or public health monitoring for the Track 4 portion of the Site must be performed as defined in this SMP; • Compliance with the Environmental Easement by the Grantee and the Grantee's successors is required; • Data and information pertinent to site management for the Track 4 portion of the Site must be reported at a frequency and in a manner defined in this SMP; • All future activities that will disturb remaining contaminated material under the Track 4 portion of the Site must be conducted in accordance with this SMP; • Monitoring to assess the performance and effectiveness of the remedy for the Track 4 portion of the Site must be performed as defined in this SMP; • Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy for the Track 4 portion of the Site shall be performed as defined in this SMP; • The potential for vapor intrusion must be evaluated upon a change in use of the property and for any newly constructed on-Site buildings prior to initial occupancy, and any potential impacts that are identified must be monitored or mitigated. A separate work plan will be submitted to the DEC for the post-construction soil vapor intrusion evaluation; and • The Owner of the Track 4 portion of the Site must, on the frequency required in Table 22 of this SMP, submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed on the Track 4 portion of the Site are unchanged from the previous certification or that any changes to the controls were approved by DEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and the environment or that constitute a violation or failure to comply with the control; • Access to the Track 4 portion of the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement; and • Vegetable gardens and farming on the Track 4 portion of the Site are prohibited. However, vegetable garden and farming on the roof/terrace is permitted.

Engineering Controls:	1. Cover system for the Track 4 Portion of the Site 2. Groundwater Monitoring	
Inspections:		Frequency
1. Cover inspection – Inspection of the cover system over the Track 4 portion of the Site.		Annually
Monitoring:		Frequency
1. Groundwater Monitoring Monitoring Wells 19MW9, 20MW10 and 20MW11.		Annually
2. Soil Vapor Intrusion Evaluation for New Buildings		As Needed, Upon Change in Use
Evaluations:		Frequency
Climate Change Vulnerability Assessment		As needed
Reporting:		Frequency
1. Groundwater Monitoring Data		Quarterly
2. Periodic Review Report		Annually, or as otherwise determined by the Department

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan.

1.0 INTRODUCTION

1.1 General

This Site Management Plan (SMP) is a required element of the remedial program for the 69-02 Queens Boulevard Site located in Queens, New York (hereinafter referred to as the “Site”). See Figure 1. The Site is currently in the New York State (NYS) Brownfield Cleanup Program (BCP), Site No. C241235 which is administered by New York State Department of Environmental Conservation (NYSDEC).

An application for acceptance into the New York State Brownfield Cleanup Program (BCP) was submitted to the New York State Department of Environmental Conservation (DEC). On September 19, 2019, QB Development Owner LLC was notified that the Site was accepted into the BCP with QB Development Owner LLC classified as a Volunteer. The Brownfield Cleanup Agreement (BCA) was fully executed on October 11, 2019. A figure showing the site location and boundaries of this site is provided in Figure 2. The boundaries of the site are more fully described in the metes and bounds site description that is part of the Environmental Easement provided in Appendix A.

After completion of the remedial work, some contamination was left in the Track 4 portion of the Site, which is hereafter referred to as “remaining contamination”. Institutional and Engineering Controls (ICs and ECs) have been incorporated into the site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the NYC Office of the City Register, requires compliance with this SMP and all ECs and ICs placed on the Track 4 portion of the Site. The environmental easement for the Site was executed by the Department on November 4, 2021, and filed with the Queens County Office of the City Register on November 26, 2021. The City Register File Number (CRFN) for this filing is 2021000466432.

This SMP was prepared to manage remaining contamination at the Track 4 portion of the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan is required by the grantor of the Environmental Easement and the grantor’s successors and

assigns. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the BCA (Index #C224284-11-18, Site #C224284) for the Site, and thereby subject to applicable penalties.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the Site is provided in Appendix B of this SMP.

This SMP was prepared AMC Engineering, PLLC (AMC), on behalf of QB Development Owner LLC in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs that are required by the Environmental Easement for the Site.

1.2 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. The NYSDEC can also make changes to the SMP or request revisions from the remedial party. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shut-down of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the site conditions. In accordance with the Environmental Easement for the site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.3 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER – 10 for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the BCA, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Notice within 48 hours of any non-routine maintenance activities.
- Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the Brownfield Cleanup Agreement (BCA), and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1 provided below includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix B.

Table 1: Notifications*

Name	Contact Information
NYSDEC Project Manager Rafi Alam	rafi.alam@dec.ny.gov; (518) 402-8606
NYSDEC Regional Chief, Superfund and Brownfield Cleanup Section Heidi Dudek	Heidi.dudek@dec.ny.gov <u>518-402-0193</u>
NYSDEC Site Control Chief Kelly Lewandowski	<u>Kelly.Lewandowski@dec.ny.gov</u> ; (518) 402-9553
NYSDOH Project Manager Arunesh Ghosh	arunesh.ghosh@health.ny.gov (518) 402- 7860

* Note: Notifications are subject to change and will be updated as necessary.

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

2.1 Site Location and Description

The Site is located in the Woodside section of Queens County (Figure 1) and is comprised of two irregular-shaped tax parcels identified as Block 2432, Lots 8 and 9. The Site is located between Queens Boulevard to the north, 70th Street to the east, 47th Avenue to the south and 69th Street to the west (Figure 2). The Site is approximately 1.65 acres (71,862 sf). (see Figure 2 – Site Layout Map). The boundaries of the Site are more fully described in Appendix A – Environmental Easement. The owner(s) of the Site parcel(s) at the time of issuance of this SMP is/are:

QB Development Owner LLC
520 Madison Avenue, Suite 3501
New York, NY 10012

2.2 Physical Setting

2.2.1 Land Use

The redevelopment project for the Site consists of the construction of a new 15-story mixed residential/commercial building and one 12 story residential building totaling approximately 547,668 gross square feet. The Project would comprise approximately 409,787 gsf of mixed-income residential space, of which approximately 30 percent (144 dwelling units) would be allocated as permanently affordable for residents with incomes averaging 80 percent Area Median Income (AMI). There will also be approximately 10,896 gsf of ground floor retail space and approximately 45,853 gsf of at-grade accessory parking Street (246 parking spaces). Additionally, approximately 81,483 gsf will be utilized as community space for a K-5, 476 student school.

The Site is zoned R7X with a C2-3 commercial overlay.

The area surrounding the property is highly urbanized and predominantly consists of commercial (retail) businesses along the Queens Boulevard corridor with community buildings, mixed-use (retail / office / contractor / residential) buildings south of the corridor and predominantly residential homes on the north side.

Adjacent land use includes commercial (retail) businesses to the west, Queens Boulevard and commercial (retail) to the north, a new multi-story mixed used building, residential and mixed use buildings to the east and a church, school (St Illuminator) and LIRR to the south.

There are three schools located within 1,200 feet of the Site, including the St. Illuminator Armenian School, located approximately 70 feet to the southeast, the Tiegerman Middle School, located approximately 375 feet to the southeast and PS 12, located approximately 1,150 feet to the northeast. There were no nursing homes or hospitals identified within 1,200 feet of the Site.

2.2.2 Geology

Soil borings on the site have not encountered bedrock and it is presumed to lie more than 100 feet below ground surface. Unconsolidated sediments overlie the bedrock and consist of Pleistocene-aged sand, gravel, and silt clays deposited by glacial-fluvial activity. Non-native fill materials consisting of dredge spoils, rubble and/or other materials have historically been used to reinforce and extend shoreline areas and to raise and improve the drainage of low-lying areas.

Subsurface soil at the Site consists of a mixture of a fill material consisting of bricks and other rubble in a silty-soil matrix. The thickness of the fill material extends to a depth of approximately 7 ft below grade. The historic fill material is underlain by a native silty-sand and clay.

2.2.3 Hydrogeology

The elevation of the property is approximately 41 feet above mean sea level. The topography within the immediate area slopes gradually to the southeast. Groundwater is present under water table conditions at a depth of approximately 10.5 to 19.5 feet below the surface. Based upon on-site measurements, groundwater flow was determined to flow to the south-southeast (Figure 3A) during the Remedial Investigation.

A groundwater contour map based on measurements collected in August of 2021 is shown in Figure 3B. Groundwater elevation data is provided in Table 25 below. Groundwater monitoring well construction logs are provided in Appendix I.

2.3 Investigation and Remedial History

Environmental investigations performed at the Site include the following:

- Phase I Environmental Site Assessment - EBC (August 2019)
- Phase II Subsurface Investigation - EBC (March 2019)

August 2018 – Phase I Environmental Site Assessment (EBC)

Based on the results of the site inspection, records review and interviews, it was determined that there were several RECs identified for the subject property. These RECs are summarized as follows:

- The historic use of Lot 9 as an auto repair shop and gasoline filling station from 1932 until 2015;
- The former presence of 8 USTs on Lot 9, with no documentation regarding their removal;
- The current presence of one UST on Lot 44, with no documentation provided including no recent tank tightness testing; and
- One active NYSPILLS case (Spill No. 9304343) on Lot 9.

The Phase I concluded the following:

Lot 9 has been the subject of several previous environmental investigations and remedial activity. A total of approximately 5,270.8 tons of petroleum-impacted soil have been removed from the area with on-going quarterly groundwater monitoring. EBC identified several historic recognized environmental condition (HRECs), environmental concerns (ASTM Non-Scope issues)/Business Environmental Risks (BERs). The HRECs, environmental concerns/BERs and EBC's recommendations are summarized as follows:

- The presence of one closed LTANKS case (Spill No. 0312172) and five closed NYSPILLS cases (Spill Nos. 0312172, 0404768, 9811087, 0901267, 0404766) on Lot 9 represent a HREC for which no further action is required.
- Historical fill (noted at varying depths) with elevated SVOCs and metals was noted in the Phase II investigation conducted by EBC in February and April 2018.
- Lot 21, Tax Block 2432, 69-20 Queens Boulevard, and Lot 9, Tax Block 2432, 69-02 Queens Boulevard are listed on the E-Designation database as having a HazMat,

Noise and Air restriction (E-163), which was determined during the Maspeth/Woodside Rezoning completed by the City in June 2006 (CEQR 060294ZMQ).

- A visual inspection of painted surfaces conducted during the site inspection indicated the interior paints were generally in fair condition. The building exterior walls were finished with painted aluminum siding and painted and unpainted brick. The lead contents of the paints are unknown; however, due to the age of the subject property buildings, the presence of LBP is possible.
- Observed suspect asbestos-containing materials included vinyl tiles, ceiling tiles and pipe insulation within the subject property buildings on Lots 41 and 44. In addition, due to the age of the subject property buildings, it is likely that inaccessible building materials may contain asbestos.

March 2019 – Phase II Subsurface Investigation Report (EBC)

Field work for the Subsurface Investigation was performed February and April 2018. Field work consisted of the installation of fourteen soil borings (B1 through B14) and five monitoring wells. The depth to groundwater ranged from 15 to 16 feet below surface.

Thirteen soil samples were analyzed for SVOCs, pesticides, metals and TCLP lead. Five groundwater samples were collected from the monitoring wells and submitted for VOC analysis.

The Report concluded the following:

The shallow soil sample retained from B3 exhibited an odor and staining. Several VOCs were detected in groundwater samples collected at the Site. No petroleum-related VOCs were identified.

The soil samples collected from the historic fill layer contained elevated concentrations of SVOCs and metals above the intended residential use of the Site. In addition some of the soil failed the TCLP analysis for lead which will result in a hazardous classification for at least some of the fill. All soil removed from the Site for excavation will require proper classification, handling and disposal under an approved Remedial Action Work Plan,

Construction Health and Safety Plan and Community Air Monitoring Plan. Soil of this quality is not suitable for disposal at most facilities in NYC and on Long Island and will require transport to facilities in NJ, PA or DE.

April 2019 – Soil Gas / Subslab Vapor Sampling (EBC)

On March 29, 2019, two sub-slab soil gas implants (SS1 and SS2) and three soil vapor implants (SG1, SG2, SG3) were installed and five soil vapor samples were collected for chemical analysis. The samples were collected to evaluate the potential for vapor intrusion into the planned Tower II building at the site, which is the location of a planned school. The NYC School Construction Authority requested the evaluation.

Soil vapor samples collected during the Soil Vapor Intrusion Assessment showed low concentrations of petroleum-related VOCs (BTEX) and chlorinated VOCs (CVOCs). The total concentration of BTEX ranged from 22.13 $\mu\text{g}/\text{m}^3$ to 45.90 $\mu\text{g}/\text{m}^3$. Total CVOCs ranged from 1.57 $\mu\text{g}/\text{m}^3$ to 3.81 $\mu\text{g}/\text{m}^3$. Tetrachloroethene (PCE), trichloroethene (TCE), carbon tetrachloride and vinyl chloride were not reported at elevated concentrations in any of the samples.

Petroleum related VOCs were generally reported at low concentrations within the sub-slab soil gas and soil vapor samples. Elevated levels of heptane and hexane were reported in the SG2 sample. Heptane and hexane represent lighter end petroleum VOCs typically associated with gasoline; however, elevated levels of other gasoline components were not reported in the sample.

Low levels of CVOCs including carbon tetrachloride, PCE and vinyl chloride were detected in four of the five samples, but at concentrations well below applicable regulatory criteria.

Remedial Investigation Report (EBC, July 2019, Revised December 10, 2019)

A supplemental investigation was performed from November 2019 through December 2019, under the NYSDEC-approved Remedial Investigation Work Plan. During the remedial investigation, samples of soil and groundwater were collected and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals,

pesticides and PCBs, and the 21 PFAS compounds by EPA Method 537 modified. Soil vapor samples were collected and analyzed for VOCs. Based on investigations conducted to date, the primary contaminants of concern are metals, petroleum related VOCs and SVOCs in soil, and petroleum-related VOCs in groundwater. Results are summarized below. PCBs, pesticides and emerging contaminants were not detected above SCGs.

Soil - Several petroleum related VOCs were detected in the subsurface that exceeded their applicable protection of groundwater soil cleanup objectives (PGSCOs); 1,2,4-trimethylbenzene was detected up to 110 parts per million (ppm) (PGSCO is 3.6 ppm) and m&p-xylenes were detected up to 110 ppm (PGSCO for total xylenes is 1.6 ppm).

Several SVOCs detected in the subsurface exceeded their respective Unrestricted Use SCOs (UUSCOs): benzo(a)anthracene was detected up to 12 ppm (UUSCO is 1 ppm); benzo(a)pyrene up to 10 ppm (UUSCO is 1 ppm); benzo(b)fluoranthene up to 11 ppm (UUSCO is 1 ppm); chrysene up to 11 ppm (UUSCO is 1 ppm); indeno(1,2,3-c,d)pyrene up to 8.2 ppm (UUSCO is 0.5 ppm); and benzo(k)fluoranthene up to 7.7 ppm (UUSCO is 0.8 ppm). Several metals exceeded their respective UUSCOs, including barium up to 1,340 ppm (UUSCO is 350 ppm), arsenic up to 19.6 ppm (UUSCO is 13 ppm), copper up to 305 ppm (UUSCO is 50 ppm), lead up to 7,780 ppm (UUSCO is 63 ppm). Lead was also detected at a concentration above the hazardous waste regulatory threshold in three soil borings, with a maximum Toxicity Characteristic Leaching Procedure (TCLP) concentration of 107 ppm (hazardous waste threshold for lead is 5 ppm).

Based on the sampling results, there is no indication that these contaminants have migrated offsite in soil.

Groundwater - Several petroleum related VOCs were detected in on-site groundwater at levels exceeding their respective groundwater quality standards (GWQS); 1,2,4-trimethylbenzene up to 500 parts per billion (ppb), (GWQS is 5 ppb), 1,3,5-trimethylbenzene up to 120 ppb (GWQS is 5 ppb), ethylbenzene up to 200 ppb (GWQS is 5 ppb), o-xylene up to 190 ppb (GWQS is 5 ppb). Several SVOCs were also detected; 2,4-Dimethylphenol up to 34 ppb (GWQS is 1 ppb), naphthalene up to 82 ppb (WGQS is 10

ppb), benzo(a)anthracene up to 0.04 (GWQS is 0.002 ppb).

Based on the sampling results, there is no indication that these contaminants have migrated offsite in groundwater.

Compounds detected above AWQS are posted on Figure 6.

Soil Vapor - Based upon the remedial investigation results, petroleum-related VOCs such as benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in soil vapor samples. The level of total BTEX compounds ranged from about 7.15 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to $14.82 \mu\text{g}/\text{m}^3$. Chlorinated VOCs (CVOCs) were reported in all of the soil vapor samples at relatively low concentrations, with carbon tetrachloride ranging from about $0.26 \mu\text{g}/\text{m}^3$ to $0.51 \mu\text{g}/\text{m}^3$, tetrachloroethene (PCE) ranging from $0.58 \mu\text{g}/\text{m}^3$ to $37.1 \mu\text{g}/\text{m}^3$, and trichloroethene (TCE) reported in five samples ranging from $0.24 \mu\text{g}/\text{m}^3$ to $27.6 \mu\text{g}/\text{m}^3$. During the Phase II investigation, heptane and hexane were detected in soil vapor at elevated concentrations of $7,040 \mu\text{g}/\text{m}^3$ and $21,600 \mu\text{g}/\text{m}^3$, respectively.

Based on the soil vapor sampling results, soil vapor intrusion does not appear to be a concern for off-site buildings.

Soil vapor detections are posted on Figure 5.

Sub-Slab Soil Vapor - Based upon the remedial investigation and Phase II investigation results, BTEX and CVOCs were reported in all of three sub-slab vapor samples at relatively low concentrations. Total BTEX compounds ranged from about $8.29 \mu\text{g}/\text{m}^3$ to $45.9 \mu\text{g}/\text{m}^3$. PCE reported in all samples ranging from $1.62 \mu\text{g}/\text{m}^3$ to $4.34 \mu\text{g}/\text{m}^3$ and TCE reported in one sample at $0.24 \mu\text{g}/\text{m}^3$.

Based on the sub-slab vapor sampling results, soil vapor intrusion does not appear to be a concern for off-site buildings.

A Remedial Action Work Plan (RAWP) prepared by AMC in February 2020 (revised June 2020), was approved by the NYSDEC on June 22, 2020. The remedy recommended for the Site within the RAWP was a Track 1 / Track 4 alternative (Alternative 3) which consists

of capping the residual petroleum areas on Lot 9, treating groundwater in the vicinity of MW9 with in-situ chemical oxidation, and by excavating the remainder of the Site to a minimum depth of 5 feet and the two lead hotspot areas to a minimum depth of 13 feet to remove all soil/fill with parameters above Unrestricted Use SCOs.

Implementation of the remedy for the Track 1 portion of the Site included the following:

1. Excavation of all D008 Hazardous Lead soil/fill from within the lead hotspot areas to depths as great as 13ft below grade;
2. Collection and analysis of endpoint samples from each of the hotspot areas to evaluate the performance of the remedy with respect to removal of D008 Hazardous Lead soil/fill;
3. Removal of one 1,000-gallon No. 2 fuel oil underground storage tank and collection an analysis of endpoint soil samples to evaluate the performance of the remedy with respect to attainment of Track 1 Unrestricted Use SCOs;
4. Excavation of soil/fill exceeding Track 1 Unrestricted Use SCOs to a minimum depth of 5 feet across the Track 1 portion of the Site to remove all non-hazardous historic fill material to meet Track 1 Unrestricted Use SCOs;
5. Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work;
6. Collection and analysis of endpoint samples from across the Track 1 area to evaluate the performance of the remedy with respect to attainment of Track 1 Unrestricted Use SCOs;
7. Appropriate off-Site disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
8. Import of $\frac{3}{4}$ " RCA for use as backfill below the building slab in compliance with: (1) chemical limitations and other specifications listed in the RAWP, and (2) all Federal, State, and local rules and regulations for handling and transport of material;
9. Import of clean native soil tested to meet Track 1 Unrestricted Use SCOs to backfill behind the cellar walls in compliance with: (1) chemical limitations and other

specifications listed in the RAWP, and (2) all Federal, State, and local rules and regulations for handling and transport of material; and

10. A post-construction soil vapor intrusion evaluation will be performed which will consist of the collection and laboratory analysis of indoor air samples. The post-construction soil vapor intrusion evaluation will include a provision for implementing actions recommended to address exposures related to soil vapor intrusion within the new building;

Implementation of the remedy for the Track 4 portion of the Site included the following:

1. Excavation of non-hazardous historic fill material to a depth of 2 ft;
2. Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work;
3. Appropriate off-Site disposal of all material removed from the Track 4 portion of the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
4. Import of $\frac{3}{4}$ " RCA for use as backfill below the concrete building slab in compliance with: (1) chemical limitations and other specifications listed in the RAWP, and (2) all Federal, State, and local rules and regulations for handling and transport of material;
5. ISCO treatment of groundwater in the vicinity of MW9;
6. Groundwater sampling to evaluate effectiveness of ISCO treatment;
7. Installation of a vapor barrier below the building slab and behind cellar walls to grade;
8. A post-construction soil vapor intrusion evaluation will be performed within the new building and will consist of the collection and laboratory analysis indoor air samples. The post-construction soil vapor intrusion evaluation will include a provision for implementing actions recommended to address exposures related to soil vapor intrusion within the new building;
9. Construction of a site cover system consisting of:
 - a. Concrete cellar slab - A 30 to 48 inch thick concrete cellar level mat slab;
 - and

- b. Concrete slab along Queens Blvd – A 2 inch thick concrete slab.
- 10. Development and implementation of a Site Management Plan for long term management of remaining contamination at the Site which includes plans for: (1) Institutional Controls, (2) inspections and (3) reporting; and
- 11. An Environmental Easement recorded against the Site will ensure implementation of the SMP.

2.4 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site as listed in the Decision Document dated June 2020, are as follows:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

2.5 Remaining Contamination

2.5.1 Soil

The results of sampling performed during the Remedial Investigation identified residual petroleum VOCs at two locations (19B1 and 19B18) on the former gas station property (Track 4 portion of the Site) to a depth of approximately 15 to 25 ft below grade. This area of the property previously underwent substantial remediation, including surfactant-enhanced multi-phase extraction, the long-term operation of an air sparging / soil vapor extraction system, full excavation to depths of 25 ft and in-situ chemical oxidant injections. The concentrations of petroleum related VOCs detected within 19B1 and 19B18 are presented below:

19B1 (20-22) – 1,2,4-trimethylbenzene (7 mg/Kg), benzene (0.34 mg/Kg), ethylbenzene (6 mg/Kg), m&p-xylenes (5.1 mg/Kg), o-xylene (0.54 mg/Kg)

19B18 (18-20) - 1,3,5-trimethylbenzene (35 mg/Kg), ethylbenzene (38 mg/Kg), naphthalene (16 mg/Kg), n-propylbenzene (22 mg/Kg), o-xylene (33 mg/Kg), toluene (7.9 mg/Kg)

Installation of the foundation and building slabs for the new building required excavation/removal of historic fill material and soil on the Track 4 portion of the Site to a minimum depth of 2 ft below grade. Additional excavation was performed for construction purposes. Soil immediately below the foundation consists of native soil and/or soil previously utilized as backfill when the area was over excavated. Residual petroleum contaminated soil above Unrestricted Use and/or Restricted Residential Use SCOs is capped in place by a composite cover system.

Table 2 and Figure 4 summarize the results of all soil samples collected that exceed the Unrestricted Use SCOs and the Restricted Residential Use SCOs at the Track 4 portion of the Site after completion of remedial action.

2.5.2 Groundwater

Gasoline related VOCs were detected above AWQS in groundwater in the area of MW9 during the RI and treated via in-situ chemical oxidant injections. VOCs detected in groundwater following treatment based on the September 22, 2021, groundwater sampling event include 1,2,4-trimethylbenzene (max. of 8.3 ppb – duplicate), ethylbenzene (max. of 9 ppb), isopropylbenzene (max. of 16 ppb), n-propylbenzene (max. of 49 ppb), sec-butylbenzene (max. of 14 ppb). Based on the Remedial Investigation sampling, concentrations of naturally occurring metals were detected in groundwater at concentrations exceeding the ambient water quality standards (AWQS). The maximum concentration of magnesium was 46,900 parts per billion (ppb) (AWQS is 300 ppb), manganese was 2,940 ppb (AWQS is 300 ppb), and sodium was 163,000 ppb (AWQS is 20,000 ppb). ECs were also detected in groundwater samples during the Remedial Investigation. The maximum combined concentrations of PFOA and PFOS was 392 parts per trillion (ppt). SVOCs detected above AWQS included benz(a)anthracene (0.04 µg/L), benzo(a)pyrene (0.02 µg/L), benzo(b)fluoranthene (0.02 µg/L), chrysene (0.04 µg/L). No PCBs or pesticides were detected at concentrations exceeding the applicable AWQS during the Remedial Investigation.

Table 27 and Figure 6 summarize the results of all samples of groundwater that exceed the SCGs after completion of the remedial action.

2.5.3 Soil Vapor

Based upon the Remedial Investigation results, petroleum-related VOCs such as benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in soil vapor samples. The level of total BTEX compounds ranged from about 7.15 µg/m³ to 14.82 µg/m³. CVOCs were reported in all of the soil vapor samples at relatively low concentrations, with carbon tetrachloride ranging from about 0.26 µg/m³ to 0.51 µg/m³, PCE ranging from 0.58 µg/m³ to 37.1 µg/m³, and TCE reported in five samples ranging from 0.24 µg/m³ to 27.6 µg/m³. During the Phase II investigation, heptane and hexane were detected in soil vapor at elevated concentrations of 7,040 µg/m³ and 21,600 µg/m³, respectively.

Table 28 and Figure 5 summarize the results of all samples of soil vapor that exceed the SCGs after completion of the remedial action.

A soil vapor intrusion evaluation (see Section 5.2 of this SMP) must be performed upon a change in use of the property that will result in initial occupancy of a new building. The breadth of this evaluation will be determined based upon discussion with the NYSDEC Project manager and NYSDOH. Based upon these discussion and agency requirements, a work plan may need to be developed that requires that sampling be performed upon a change in use or as deemed necessary by the aforementioned entities. Upon completion of the evaluation, if an action is required, any actions taken or to be taken must be reflected in an updated SMP.

2.5.4 Sub-Slab Soil Vapor

Based upon the Remedial Investigation and Phase II investigation results, BTEX and CVOCs were reported in all of three sub-slab vapor samples at relatively low concentrations. Total BTEX compounds ranged from about 8.29 $\mu\text{g}/\text{m}^3$ to 45.9 $\mu\text{g}/\text{m}^3$. PCE reported in all samples ranging from 1.62 $\mu\text{g}/\text{m}^3$ to 4.34 $\mu\text{g}/\text{m}^3$ and TCE reported in one sample at 0.24 $\mu\text{g}/\text{m}^3$.

Table 28 and Figure 5 summarize the results of all samples of Sub-Slab soil vapor that exceed the SCGs after completion of the remedial action.

A soil vapor intrusion evaluation (see Section 5.2 of this SMP) must be performed upon a change in use of the property that will result in initial occupancy of a new building. The breadth of this evaluation will be determined based upon discussion with the NYSDEC Project manager and NYSDOH. Based upon these discussion and agency requirements, a work plan may need to be developed that requires that sampling be performed upon a change in use or as deemed necessary by the aforementioned entities. Upon completion of the evaluation, if an action is required, any actions taken or to be taken must be reflected in an updated SMP.

3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN

3.1 General

Since remaining contamination exists at the Track 4 portion of the Site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC.

This plan provides:

- A description of all IC/ECs on the site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP) (as provided in Appendix C) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC.

3.2 Institutional Controls

A series of ICs is required by the RAWP for the Track 4 portion of the Site to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the site to restricted residential, commercial, or industrial uses only. Adherence to these ICs on the Track 4 portion of the Site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The IC boundaries (Track 4 portion of the Site) are shown on Figure 2. These ICs are:

- The Track 4 portions of the Site may be used for: restricted residential; commercial, industrial use;
- All ECs on the Track 4 portion of the Site must be operated and maintained as specified in this SMP;
- All ECs on the Track 4 portion of the Site must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property the Track 4 portion of the Site is prohibited without necessary water quality treatment as determined by the NYSDOH or the NYCDOHMH to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring for the Track 4 portion of the Site must be performed as defined in this SMP;
- Compliance with the Environmental Easement by the Grantee and the Grantee's successors is required;
- Data and information pertinent to site management for the Track 4 portion of the Site must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material on the Track 4 portion of the Site must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy for the Track 4 portion of the Site must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy for the Track 4 portion of the Site shall be performed as defined in this SMP;
- The potential for vapor intrusion must be evaluated upon a change in use of the property and for any newly constructed on-Site buildings prior to initial occupancy, and any potential impacts that are identified must be monitored or mitigated. A separate work plan will be submitted to the DEC for the post-construction soil vapor intrusion evaluation; and
- The Owner of the Track 4 portion of the Site must, on the frequency required in Table 22 of this SMP, submit to NYSDEC a written statement that certifies, under

- penalty of perjury, that: (1) controls employed on the Track 4 portion of the Site are unchanged from the previous certification or that any changes to the controls were approved by DEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and the environment or that constitute a violation or failure to comply with the control;
- Access to the Track 4 portion of the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement; and
 - Vegetable gardens and farming on the Track 4 portion of the Site are prohibited. However, vegetable garden and farming on the roof/terrace is permitted.
 - An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.

3.3 Engineering Controls

3.3.1 Site Cover System

Exposure to remaining contamination at the Track 4 portion of the Site is prevented by a cover system placed over the Site. The cover system is comprised of the following:

- Concrete cellar slab - A 30 to 48 inch thick concrete cellar level mat slab; and
- Concrete slab along Queens Blvd – A 2 inch thick concrete slab.

Figure 7 presents the location of the cover system. The Excavation Work Plan (EWP) provided in Appendix C outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and associated Community Air Monitoring Plan (CAMP) prepared for the Site and provided in Appendix E and Appendix F. Any disturbance of the site's cover system must be overseen by a qualified environmental professional as defined in 6 NYCRR Part 375, a Professional Engineer (PE)

who is licensed and registered in New York State.

Procedures for operating and maintaining the site cover system are documented in the Maintenance and Inspection Plan (Section 4.0 of this SMP). Figure 7 is an as-built drawing signed and sealed by a professional engineer that shows the location of the ECs (site cover system) for the Track 4 portion of the Site. The elements of the cover system will change as development of the property progresses. This SMP will be revised periodically to include updated as-built drawings documenting the changes to the cover system over time.

3.3.2 Monitored Natural Attenuation

Gasoline related VOCs were detected above AWQS in groundwater in the area of MW9 during the RI and treated via in-situ chemical oxidant injections. The chemical oxidant injections performed at the Site delivered oxidant to the subsurface allowing it to flow south with groundwater treating both residual contaminants in soil and the groundwater. The monitored natural attenuation program utilizes three existing monitoring wells (19MW9, 20MW10, 20MW11). The location of each of the three monitoring wells within the cellar of the new building is shown on Figure 8. Each of the monitoring wells are constructed of 2-inch PVC with a 10 ft 0.010-inch slot screened section installed 8 to 9 ft below the water table. A No. 1 morie gravel pack is placed around the screen to a depth of approximately 1 ft above the screen followed by a 1 ft hydrated bentonite pellet seal. The three monitoring wells are finished at the top of the cellar slab, which is approximately 12 ft below grade.

3.3.3 Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC DER-10. Unless waived by the NYSDEC, confirmation samples of applicable environmental media are required before terminating any remedial actions at the Site. Confirmation samples require Category B deliverables and a Data Usability Summary Report (DUSR).

As discussed below, the NYSDEC may approve termination of a groundwater monitoring program. When a remedial party receives this approval, the remedial party will decommission all site-related monitoring, injection and recovery wells as per the NYSDEC CP-43 policy.

The remedial party will also conduct any needed site restoration activities, such as asphalt patching and decommissioning treatment system equipment. In addition, the remedial party will conduct any necessary restoration of vegetation coverage, trees and wetlands, and will comply with NYSDEC and United States Army Corps of Engineers regulations and guidance. Also, the remedial party will ensure that no ongoing erosion is occurring on the site.

3.3.3.1 – Site Cover System

The site cover system over the Track 4 portion of the Site is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity.

3.3.3.2 – Monitoring Wells Associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation will continue, as determined by the NYSDEC project manager in consultation with NYSDOH project manager, until residual groundwater concentrations are found to be consistently below ambient water quality standards, the site SCGs, or have become asymptotic at an acceptable level over an extended period. In the event that monitoring data indicates that monitoring for natural attenuation may no longer be required, a proposal to discontinue the monitoring will be submitted by the remedial party. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC project manager. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional source removal, treatment and/or control measures will be evaluated.

4.0 MONITORING AND SAMPLING PLAN

4.1 General

This Monitoring and Sampling Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring and Sampling Plan may only be revised with the approval of the NYSDEC project manager. Details regarding the sampling procedures, data quality usability objectives, analytical methods, etc. for all samples collected as part of site management for the site are included in the Quality Assurance Project Plan provided in Appendix K.

This Monitoring and Sampling Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance (SCGs), particularly groundwater standards and Part 375 SCOs for soil; and
- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment.

To adequately address these issues, this Monitoring and Sampling Plan provides information on:

- Sampling locations, protocol and frequency;
- Information on all designed monitoring systems;
- Analytical sampling program requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Reporting requirements are provided in Section 6.0 of this SMP.

4.2 Site Cover Inspection

Site cover inspections for the Track 4 portion of the Site will be performed at a minimum of once per year. Modification to the frequency of the inspections will require approval from the NYSDEC. Site inspections will also be performed after all severe weather conditions. During these inspections, an inspection form will be completed as provided in

Appendix D – Site Management Forms. The form will compile sufficient information to assess the following:

- Compliance with all ICs;
- An evaluation of the condition and continued effectiveness of the site cover;
- General site conditions at the time of the inspection;
- The site inspection activities being conducted; and
- Confirm that site records are up to date.

Site cover inspections for the Track 4 portion of the Site will be conducted and documented annually, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether the site cover system continues to perform as designed;
- If the site cover continues to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria; and
- If site records are complete and up to date.

Reporting requirements are outlined in Section 6.0 of this SMP.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of the site cover system occurs that reduces or has the potential to reduce the effectiveness of the composite cover in place at the Site, verbal notice to the NYSDEC must be given by noon of the following day. In addition, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the composite cover by a qualified environmental professional, as determined by the NYSDEC. Written confirmation must be provided to the NYSDEC within 7 days of the event, and include a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

Unscheduled inspections may take place when a suspected failure of the site cover system has been reported or an emergency occurs that is deemed likely to affect the Site. The site cover system components to be inspected include, but are not limited to, the components

included in Table 22 below.

Table 22 – Site Cover System Inspection Requirements and Schedule

Cover Component	Inspection Parameter	Inspection Schedule
Concrete cellar slab - A 30 to 48 inch thick concrete cellar level mat slab	Inspect for cracks, openings or other damage, and determine if repair/replacement is required.	Annual
Concrete slab along Queens Blvd - A 2 inch thick concrete slab	Inspect for cracks, openings or other damage, and determine if repair/replacement is required.	Annual

**Note: this table will be revised as the cover system components change during site development activities.*

A complete list of inspection activities is provided in the Inspection Checklist, provided in Appendix D - Site Management Forms. If any penetrations, holes, cracks or other disturbances are noted within the composite cover system repairs must be made immediately under a Corrective Measures Work Plan.

4.3 Monitoring Well Inspection

Inspection of the three monitoring wells will be performed on a quarterly basis as identified in **Table 23** Monitoring Requirements and Schedule (see below). Modification to the frequency or sampling requirements will require approval from the NYSDEC. A visual inspection of the monitoring wells will be conducted during each monitoring event. Unscheduled inspections and/or sampling may take place when an emergency occurs that is deemed likely to affect the operation of the system. Monitoring well parameters to be monitored include, but are not limited to, the components included in **Table 23** below.

Table 23 – Monitoring Requirements and Schedule

ISCO System Component	Monitoring Parameter	Monitoring Schedule
Monitoring Wells	Condition, PID Screen, Depth to water, depth to bottom.	Quarterly

A complete list of components to be inspected is provided in the Inspection Checklist, provided in **Attachment H** - Site Management Forms. If the monitoring wells have been damaged, lost, or require redevelopment, maintenance and repair, as per the Operation and Maintenance Plan, is required immediately.

4.3 Post-Remediation Media Monitoring and Sampling

Groundwater monitoring activities to assess bulk asymptotic attenuation will continue, as determined by the NYSDEC with consultation with NYSDOH, until residual groundwater concentrations are found to be consistently below ambient water quality standards, the site SCGs, or have become asymptotic at an acceptable level over an extended period. In the event that monitoring data indicates that monitoring for bulk asymptotic attenuation may no longer be required, a proposal to discontinue monitoring will be submitted by the remedial party. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional control measures will be evaluated.

Groundwater samples will be collected from monitoring wells 19MW9, 20MW10, and 20MW11 on a routine quarterly basis until a bulk reduction to asymptotic concentrations has been demonstrated. The network of monitoring wells was installed immediately down-gradient of all volatile organic carbon remediation areas for the purpose of evaluation of the effectiveness of the chemical oxidant injections. Sampling locations, required analytical parameters and schedule are provided in Table 24 – Groundwater Sampling Requirements and Schedule below. Modification to the frequency or sampling requirements will require approval from the NYSDEC.

Table 24 – Groundwater Sampling Requirements and Schedule

Sampling Location	Analytical Parameters	Schedule
19MW9	VOCs (EPA Method 8260C)	Quarterly
20MW1	VOCs (EPA Method 8260C)	Quarterly
20MW2	VOCs (EPA Method 8260C)	Quarterly
Container	(3) 40mL VOAs preserved with HCL	

Detailed sample collection and analytical procedures and protocols are provided in Attachment D – Field Sampling Plan and Attachment E – Quality Assurance Project Plan. Health and Safety Procedures for groundwater sampling are provided in Attachment F – Health and Safety Plan. Community Air Monitoring procedures during groundwater sampling are provided in Attachment G – Community Air Monitoring Plan.

Table 25 summarizes the wells identification number, as well as the purpose, location, depths, diameter, and screened intervals of the wells. As part of the groundwater monitoring, the existing monitoring wells are sampled to evaluate the natural attenuation of the groundwater contamination. Monitoring well construction logs are included in **Attachment D** of this document.

Table 25 – Monitoring Well Construction Details

Monitoring Well ID	Well Location	Well Diameter (inches)	Elevation (above mean sea level)			
			Casing Top	Screen Top	Screen Bottom	GW Elevation
19MW9	Cellar of Track 4 Area	2	28.94'	23.9'	13.9'	22.53'
20MW10	Cellar of Track 4 Area	2	30.05'	25.0'	15.0'	21.98'
20MW11	Cellar of Track 4 Area	2	28.84	23.8'	13.8'	23.70'

The results of the quarterly groundwater sampling events will be indicated in Periodic Review Reports (PRR). As part of the PRR submittal, a graph showing the change in VOCs concentrations, specifically BTEX compounds, will be attached. Detailed sample collection and analytical procedures and protocols are provided in **Attachment E – Field Sampling Plan** and **Attachment F – Quality Assurance Project Plan**.

In accordance with the RAWP, three monitoring wells are located within the cellar of the new building to monitor groundwater quality following injections of a chemical oxidant. All three monitoring wells are constructed of 2-inch PVC casing with a 10-ft 0.010 screened section set to approximately 8 to 9 feet below the water table. The wells were completed with a No. 01 morie gravel pack paced to a depth of approximately 1 foot above the screen followed by a hydrated bentonite seal.

If biofouling or silt accumulation occurs in the monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced, if an event renders the wells unusable. Repairs

and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of any monitoring well for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent Periodic Review Report. Well decommissioning without replacement will be done only with the prior approval of the NYSDEC. Well abandonment will be performed in accordance with NYSDEC's guidance entitled "CP-43: Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be replaced in kind in the nearest available location, unless otherwise approved by the NYSDEC. The sampling frequency may only be modified with the approval of the NYSDEC. This SMP will be modified to reflect changes in sampling plans approved by the NYSDEC. Deliverables for the groundwater monitoring program are specified in Section 7.0 – Reporting Requirements.

All sampling activities will be recorded in a field book and associated sampling log as provided in Attachment D - Site Management Forms. Other observations (e.g., groundwater monitoring well integrity, etc.) will be noted on the sampling log. The sampling log will serve as the inspection form for the monitoring network. Additional detail regarding monitoring and sampling protocols are provided in the site-specific Field Sampling Plan provided as Attachment J of this document.

Groundwater Sampling Protocol

Groundwater samples will be collected from all wells (19MW9, 20MW1, 20MW2). Sample procurement will be achieved through the use of dedicated polyethylene tubing, a and a peristaltic pump.

All groundwater sampling activities will be recorded in the project dedicated field book.

This will include a description of:

- Date and time of sample collection
- Sample location

- Purging time, duration and volume;
- Sample appearance
- Analytical methodology:

Groundwater samples will be collected using a peristaltic pump and dedicated polyethylene tubing in accordance with standard low-flow sampling procedures as follows:

- Record pump make & model on sampling form.
- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan
- Inspect each well for any damage or evidence of tampering and note condition in field logbook.
- Remove the well cap.
- Lay out plastic sheeting and place the monitoring, purging and sampling equipment on the sheeting.
- To avoid cross-contamination, do not let any downhole equipment touch the ground.
- Measure well headspace with a PID or FID and record the reading in the field logbook.
- A synoptic water level measurement round should be performed (in the shortest possible time) before any purging and sampling activities begin. Measure and record the depth to water using a water level meter or interface probe to the nearest 0.01 ft. Record the measurement in the field logbook. Do not measure the depth to the bottom of the well at this time (to avoid disturbing any sediment that may have accumulated). Obtain depth to bottom information from installation information in the field logbook or soil boring logs.
- Collect samples in order from wells with lowest contaminant concentration to highest concentration.
- Connect the polyethylene tubing to the peristaltic pump and lower the tubing into the well to approximately the middle of the screen. Tubing should be a minimum of 2 feet above the bottom of the well as this may cause mobilization of any sediment present in the bottom of the well.

- Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet but remains stable, continue purging until indicator field parameters stabilize.
- There should be at least 1 foot of water over the end of the tubing so there is no risk of entrapment of air in the sample. Pumping rates should be reduced to the minimum capabilities of the pump, if needed, to avoid purging the well dry. However, if the recharge rate of the well is very low and the well is purged dry, then wait until the well has recharged to a sufficient level and collect the appropriate volume of sample.
- During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance and pH) every three to five minutes (or less frequently, if appropriate). Sample will not be collected until the turbidity is less than 50 NTUs. Note: during the early phase of purging emphasis should be put on minimizing and stabilizing pumping stress, and recording those adjustments. Purging is considered complete and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings, taken at three (3) to five (5) minute intervals, are within the following limits:
 - specific conductance (3%),
 - temperature (3%),
 - pH (± 0.1 unit)
- VOC samples should be collected directly into pre-preserved sample containers. Fill all sample containers by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. Fill each container with sample to just overflowing so that no air bubbles are entrapped inside. Cap each bottle as it is filled.
- Label the samples, and record them on the chain of custody form. Place immediately into a cooler for shipment and maintain at 4°C.

- Remove the tubing from the well. The polyethylene tubing must either be dedicated to each well or discarded. If dedicated the tubing should be placed in a large plastic garbage bag, sealed, and labeled with the appropriate well identification number.
- Close and lock the well.
- Decontaminate pump either by changing the surgical pump tubing between wells or as follows:
 1. Flush the equipment/pump with potable water.
 2. Flush with non-phosphate detergent solution. If the solution is recycled, the solution must be changed periodically.
 3. Flush with potable or distilled/deionized water to remove all of the detergent solution. If the water is recycled, the water must be changed periodically.
 4. Flush with isopropyl alcohol (pesticide grade). If equipment blank data from the previous sampling event show that the level of contaminants is insignificant, then this step may be skipped.
 5. Flush with distilled/deionized water. The final water rinse must not be recycled.

Samples will be collected in pre-cleaned laboratory supplied glassware, stored in a cooler with ice and submitted to a New York State ELAP certified environmental laboratory. Groundwater samples from monitoring well locations will be submitted for analysis of TCL VOCs by EPA Method 8260.

All monitoring wells will be surveyed to determine relative casing elevation to the nearest 0.01 ft and horizontal position to the nearest 0.1 ft.

4.7 Soil Vapor Intrusion Evaluation

Since post-remedial soil vapor sampling was not completed to verify that the remedial objective for soil vapor was attained, a soil vapor intrusion evaluation will be conducted within the completed building prior occupancy. A separate work plan will be submitted to the DEC for the post-construction soil vapor intrusion evaluation. Details for this evaluation will be determined upon completion of the on-Site building.

5.0 PERIODIC ASSESSMENTS/EVALUATIONS

5.1 Remedial System Optimization

A Remedial Site Optimization (RSO) study will be conducted any time that the NYSDEC or the remedial party requests in writing that an in-depth evaluation of the remedy is needed. An RSO may be appropriate if any of the following occur:

- The remedial actions have not met or are not expected to meet RAOs in the time frame estimated in the Decision Document;
- The management and operation of the remedial system is exceeding the estimated costs;
- The remedial system is not performing as expected or as designed;
- Previously unidentified source material may be suspected;
- Plume shift has potentially occurred;
- Site conditions change due to development, change of use, change in groundwater use, etc.;
- There is an anticipated transfer of the site management to another remedial party or agency; and
- A new and applicable remedial technology becomes available.

An RSO will provide a critique of a site's conceptual model, give a summary of past performance, document current cleanup practices, summarize progress made toward the site's cleanup goals, gather additional performance or media specific data and information and provide recommendations for improvements to enhance the ability of the present system to reach RAOs or to provide a basis for changing the remedial strategy.

The RSO study will focus on overall site cleanup strategy, process optimization and management with the intent of identifying impediments to cleanup and improvements to site operations to increase efficiency, cost effectiveness and remedial time frames.

5.2 Climate Change Vulnerability Assessment

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns

and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness and protectiveness of a given site and associated remedial systems. Vulnerability assessments provide information so that the site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

This section provides a summary of vulnerability assessments that will be conducted for the site during periodic assessments, and briefly summarizes the vulnerability of the site and/or engineering controls to severe storms/weather events and associated flooding.

The Site is not located within a designated flood zone area. The Site is served by the NYC Municipal sewer system and the completed buildings will meet all NYC building codes for drainage.

5.3 Soil Vapor Intrusion Evaluation

A soil vapor intrusion evaluation must be performed upon a change in use of the property and for any newly constructed on-Site buildings prior to initial occupancy. The breadth of this evaluation will be determined based upon discussion with the NYSDEC Project manager and NYSDOH. Based upon these discussion and agency requirements, a work plan will be developed that requires that sampling be performed upon a change in use or as deemed necessary by the aforementioned entities. Upon completion of the evaluation, if an action is required, any actions taken or to be taken must be reflected in an updated SMP.

During the RI, soil vapor samples were collected from a depth of approximately 15 ft. As part of the Site remediation, the majority of the Site was excavated to a depth at least 8 ft along the south half of the Site and 15ft along the north half of the Site. As part of construction, a waterproofing membrane/vapor barrier was installed below the building slab to mitigate against the potential for soil vapor intrusion. The results of the post-construction soil vapor intrusion to be performed within the new buildings prior to initial occupancy will determine if mitigation or monitoring is required. A separate work plan will be submitted to the DEC for the post-construction soil vapor intrusion evaluation.

5.4 Green Remediation Evaluation

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. This section of the SMP provides a summary of any green remediation evaluations to be completed for the site during site management, and as reported in the Periodic Review Report (PRR).

5.4.1 Timing of Green Remediation Evaluations

For major remedial system components, green remediation evaluations and corresponding modifications will be undertaken as part of a formal Remedial System Optimization (RSO), or at any time that the Project Manager feels appropriate, e.g. during significant maintenance events or in conjunction with storm recovery activities.

Modifications resulting from green remediation evaluations will be routinely implemented and scheduled to occur during planned/routine operation and maintenance activities. Reporting of these modifications will be presented in the PRR.

Transportation to and from the Site and use of consumables in relation to visiting the Site in order to inspect the site cover system have direct and/or inherent energy costs. The schedule and/or means of these periodic activities have been prepared so that these tasks can be accomplished in a manner that does not impact remedy protectiveness but reduces expenditure of energy or resources.

As part of this effort, consideration shall be given to:

- Reduced site visits;
- Coordination/consolidation of activities to maximize foreman/labor time; and
- Use of mass transit for site visits, where available.

6.0 REPORTING REQUIREMENTS

6.1 Site Management Reports

All site management inspection, maintenance and monitoring events will be recorded on the appropriate site management forms provided in Appendix D. These forms are subject to NYSDEC revision.

All applicable inspection forms and other records, including media sampling data and system maintenance reports, generated for the site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 22 and Table 23 and summarized in the Periodic Review Report.

Table 26: Schedule of Monitoring/Inspection Reports

Task/Report	Reporting Frequency*
Site Inspection	Annually, and as needed.
Groundwater Monitoring	Quarterly
Periodic Review Report	Annually, or as otherwise determined by the Department

* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC.

All interim monitoring/inspections reports will include, at a minimum:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting monitoring/inspection activities;
- Description of the activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);
- Type of samples collected (e.g., sub-slab vapor, indoor air, outdoor air, etc);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;

- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);
- Any observations, conclusions, or recommendations; and
- A determination as to whether contaminant conditions have changed since the last reporting event.

Routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting maintenance activities;
- Description of maintenance activities performed;
- Any modifications to the system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and,
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

Non-routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Description of non-routine activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and
- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

Data will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQUIS™ database in accordance with the requirements found at this link:

<http://www.dec.ny.gov/chemical/62440.html>.

6.2 Periodic Review Report

A Periodic Review Report (PRR) will be submitted to the Department beginning sixteen (16) months after the Certificate of Completion is issued. After submittal of the initial Periodic Review Report, the next PRR shall be submitted annually to the Department or at another frequency as may be required by the Department. In the event that the Track 4 portion of the Site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses all Track 4 portions of the Site described in Appendix A - Environmental Easement. The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site.
- Results of the required annual site inspections and severe condition inspections, if applicable.
- All applicable site management forms and other records generated for the Site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- A summary of any discharge monitoring data and/or information generated during the reporting period, with comments and conclusions.
- Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These will include a presentation of past data as part of an evaluation of contaminant concentration trends.
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQuIS™ database in

accordance with the requirements found at this link:
<http://www.dec.ny.gov/chemical/62440.html>.

- A site evaluation, which includes the following:
 - The compliance of the remedy with the requirements of the site-specific RAWP and Decision Document;
 - The operation and the effectiveness of all engineering controls, including identification of any needed repairs or modifications;
 - Any new conclusions or observations regarding Site contamination based on inspections;
 - Recommendations regarding any necessary changes to the remedy; and
 - The overall performance and effectiveness of the remedy.

6.2.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a Professional Engineer licensed to practice in New York State will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

“For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- *The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*
- *The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;*
- *Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*

- *If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the site is compliant with the environmental easement;*
- *The engineering control systems are performing as designed and are effective;*
- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program [and generally accepted engineering practices]; and*
- *The information presented in this report is accurate and complete.*

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as [Owner/Remedial Party or Owner's/Remedial Party's Designated Site Representative] (and if the site consists of multiple properties): [I have been authorized and designated by all site owners/remedial parties to sign this certification] for the site."

If the remedy requires only an institutional control, include the following:

At the end of each certifying period, as determined by the NYSDEC, the following certification will be provided to the Department:

"For each institutional identified for the site, I certify that all of the following statements are true:

- *The Institutional Control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;*
- *Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*

- *If a financial assurance mechanism is required under the oversight document for the site, the mechanism remains valid and sufficient for the intended purpose under the document;*
- *Use of the site is compliant with the environmental easement.*
- *The information presented in this report is accurate and complete.*

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, [name], of [business address], am certifying as [Owner or Owner's Designated Site Representative] (and if the site consists of multiple properties): [and I have been authorized and designated by all site owners to sign this certification] for the site."

For BCP projects which the Department has determined do not represent a significant threat to public health or the environment, but where contaminants in groundwater exceed drinking water standards, the following should also be included for both IC/EC and IC scenarios listed above:

- *No new information has come to my attention, including groundwater monitoring data from wells located at the site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and*

For BCP projects, every five years the following certification will be added:

- *The assumptions made in the qualitative exposure assessment remain valid.*

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the site is located and the NYSDOH Bureau of Environmental Exposure Investigation. The Periodic Review Report may need to be submitted in hard-copy format, as requested by the NYSDEC project manager.

6.3 Corrective Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC.

6.4 Remedial Site Optimization Report

In the event that an RSO is to be performed (see Section 5.2.1) upon completion of an RSO, an RSO report must be submitted to the Department for approval. A general outline for the RSO report is provided in Appendix G. The RSO report will document the research/investigation and data gathering that was conducted, evaluate the results and facts obtained, present a revised conceptual site model and present recommendations. RSO recommendations are to be implemented upon approval from the NYSDEC. Additional work plans, design documents, HASPs etc., may still be required to implement the recommendations, based upon the actions that need to be taken. A final engineering report and update to the SMP may also be required.

The RSO report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the site is located, Site Control and the NYSDOH Bureau of Environmental Exposure Investigation.

7.0 REFERENCES

69-02 Queens Boulevard - BCP No. C241235. Remedial Action Work Plan, prepared by ACM Engineering, dated February 2020, Revised June 2020.

69-02 Queens Boulevard - BCP No. C241235. Remedial Investigation Report, prepared by Environmental Business Consultants, dated February 2020, Revised April 2020.

Decision Document, 69-02 Queens Blvd, Brownfield Cleanup Program Site No. C241235, prepared by NYSDEC Division of Environmental Remediation, dated June 2020.

6NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.

NYSDEC DER-10 – “Technical Guidance for Site Investigation and Remediation”.

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum).

TABLES

Table 2
69-02 Queens Blvd.
Queens, New York
Remaining Soil Sample Exceedances

COMPOUND	Range in Exceedances	Frequency of Detection	19B1	19B18
			(20-22')	(18-20)
			11/7/2019	11/6/2019
Sample Results in ug/kg				
1,2,4-Trimethylbenzene	7000-110000	2	7,000	110,000
1,3,5-Trimethylbenzene	35000-35000	1	-	35,000
Benzene	340-340	1	340	-
Ethylbenzene	6000-38000	2	6,000	38,000
m&p-Xylenes	5100-110000	2	5,100	110,000
Naphthalene	16000-16000	1	-	16,000
n-Propylbenzene	22000-22000	1	-	22,000
o-Xylene	540-33000	2	540	33,000
Toluene	7900-7900	1	-	7,900

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

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

Table 3
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Laboratory Results									
			19B1						19B2			
			(0-2')		(20-22')		(36')		(0-2')		(18-20')	
			11/7/2019		11/7/2019		11/7/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 19	19	< 900	900	< 17	17	< 4.2	4.2	< 4.5	4.5
1,1,1-Trichloroethane	680	100,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,1,2,2-Tetrachloroethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,1,2-Trichloroethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,1-Dichloroethane	270	26,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,1-Dichloroethene	330	100,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,1-Dichloropropene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2,3-Trichlorobenzene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2,3-Trichloropropane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2,4-Trichlorobenzene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2,4-Trimethylbenzene	3,600	52,000	< 4.7	4.7	7,000	230	1.9	4.4	< 4.2	4.2	< 4.5	4.5
1,2-Dibromo-3-chloropropane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2-Dibromoethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2-Dichlorobenzene	1,100	100,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2-Dichloroethane	20	3,100	< 4.7	4.7	< 23	23	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,2-Dichloropropane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,3,5-Trimethylbenzene	8,400	52,000	< 4.7	4.7	2,100	230	0.55	4.4	< 4.2	4.2	< 4.5	4.5
1,3-Dichlorobenzene	2,400	4,900	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,3-Dichloropropane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,4-Dichlorobenzene	1,800	13,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
1,4-Dioxane			< 100	100	< 100	100	< 100	100	< 69	69	< 73	73
2,2-Dichloropropane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
2-Chlorotoluene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
2-Hexanone (Methyl Butyl Ketone)			< 24	24	< 1100	1,100	< 22	22	< 21	21	< 23	23
2-Isopropyltoluene			< 4.7	4.7	40	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
4-Chlorotoluene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
4-Methyl-2-Pentanone			< 24	24	< 1100	1,100	< 22	22	< 21	21	< 23	23
Acetone	50	100,000	< 24	24	< 230	230	13	22	< 21	21	< 23	23
Acrolein			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Acrylonitrile			< 19	19	< 900	900	< 17	17	< 8.4	8.4	< 9.0	9.0
Benzene	60	4,800	< 4.7	4.7	340	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Bromobenzene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Bromochloromethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Bromodichloromethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Bromoforn			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Bromomethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Carbon Disulfide			< 4.7	4.7	< 230	230	2.1	4.4	< 4.2	4.2	< 4.5	4.5
Carbon tetrachloride	760	2,400	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Chlorobenzene	1,100	100,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Chloroethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Chloroform	370	49,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Chloromethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
cis-1,2-Dichloroethene	250	100,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
cis-1,3-Dichloropropene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Dibromochloromethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Dibromomethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Dichlorodifluoromethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Ethylbenzene	1,000	41,000	< 4.7	4.7	6,000	230	0.67	4.4	0.48	4.2	< 4.5	4.5
Hexachlorobutadiene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Isopropylbenzene			< 4.7	4.7	720	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
m&p-Xylenes	260	100,000	< 4.7	4.7	5,100	230	0.92	4.4	1.2	4.2	< 4.5	4.5
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 28	28	< 120	120	< 26	26	< 25	25	< 27	27
Methyl t-butyl ether (MTBE)	930	100,000	< 9.5	9.5	< 450	450	< 8.7	8.7	< 8.4	8.4	< 9.0	9.0
Methylene chloride	50	100,000	< 4.7	4.7	< 90	90	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Naphthalene	12,000	100,000	< 4.7	4.7	3,900	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
n-Butylbenzene	12,000	100,000	< 4.7	4.7	530	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
n-Propylbenzene	3,900	100,000	< 4.7	4.7	2,400	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
o-Xylene	260	100,000	< 4.7	4.7	540	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
p-Isopropyltoluene			< 4.7	4.7	140	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
sec-Butylbenzene	11,000	100,000	< 4.7	4.7	250	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Styrene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
tert-Butyl alcohol			< 95	95	< 4500	4,500	110	87	< 84	84	< 90	90
tert-Butylbenzene	5,900	100,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Tetrachloroethene	1,300	19,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Tetrahydrofuran (THF)			< 9.5	9.5	< 450	450	< 8.7	8.7	< 8.4	8.4	< 9.0	9.0
Toluene	700	100,000	< 4.7	4.7	42	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
trans-1,2-Dichloroethene	190	100,000	< 4.7	4.7	< 190	190	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
trans-1,3-Dichloropropene			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
trans-1,4-dichloro-2-butene			< 9.5	9.5	< 450	450	< 8.7	8.7	< 8.4	8.4	< 9.0	9.0
Trichloroethene	470	21,000	< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Trichlorofluoromethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Trichlorotrifluoroethane			< 4.7	4.7	< 230	230	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Vinyl Chloride	20	900	< 4.7	4.7	< 23	23	< 4.4	4.4	< 4.2	4.2	< 4.5	4.5
Total BTEX Concentration			0.0		12022.0		1.6		1.7		0.0	
Total VOCs Concentration			0.0		29102.0		129.1		1.7		0.0	

Notes:

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

RL - Reporting Limit

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

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

Table 3
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Laboratory Results											
			19B3				19B4				19B5			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 20	20	< 5.0	5.0	< 21	21	< 16	16	< 25	25	< 5.1	5.1
1,1,1-Trichloroethane	680	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,1,2,2-Tetrachloroethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,1,2-Trichloroethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,1-Dichloroethane	270	26,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,1-Dichloroethene	330	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,1-Dichloropropene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2,3-Trichlorobenzene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2,3-Trichloropropane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2,4-Trichlorobenzene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2,4-Trimethylbenzene	3,600	52,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2-Dibromo-3-chloropropane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2-Dibromoethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2-Dichlorobenzene	1,100	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2-Dichloroethane	20	3,100	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,2-Dichloropropane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,3,5-Trimethylbenzene	8,400	52,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,3-Dichlorobenzene	2,400	4,900	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,3-Dichloropropane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,4-Dichlorobenzene	1,800	13,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
1,4-Dioxane			< 100	100	< 100	100	< 100	100	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
2-Chlorotoluene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
2-Hexanone (Methyl Butyl Ketone)			< 25	25	< 25	25	< 26	26	< 21	21	< 31	31	< 26	26
2-Isopropyltoluene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
4-Chlorotoluene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
4-Methyl-2-Pentanone			< 25	25	< 25	25	< 26	26	< 21	21	< 31	31	< 26	26
Acetone	50	100,000	< 25	25	6.5	25	< 26	26	5.7	21	11	31	5.6	26
Acrolein			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Acrylonitrile			< 20	20	< 10	10	< 21	21	< 16	16	< 25	25	< 20	20
Benzene	60	4,800	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Bromobenzene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Bromochloromethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Bromodichloromethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Bromoform			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Bromomethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Carbon Disulfide			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Carbon tetrachloride	760	2,400	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Chlorobenzene	1,100	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Chloroethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Chloroform	370	49,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Chloromethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
cis-1,2-Dichloroethene	250	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
cis-1,3-Dichloropropene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Dibromochloromethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Dibromomethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Dichlorodifluoromethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Ethylbenzene	1,000	41,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	1.1	6.1	< 5.1	5.1
Hexachlorobutadiene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Isopropylbenzene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
m&p-Xylenes	260	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	2.9	6.1	< 5.1	5.1
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 30	30	< 30	30	< 31	31	< 25	25	< 37	37	< 31	31
Methyl t-butyl ether (MTBE)	930	100,000	< 10	10	< 10	10	< 10	10	< 8.2	8.2	< 12	12	< 10	10
Methylene chloride	50	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Naphthalene	12,000	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
n-Butylbenzene	12,000	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
n-Propylbenzene	3,900	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
o-Xylene	260	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
p-Isopropyltoluene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
sec-Butylbenzene	11,000	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Styrene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
tert-Butyl alcohol			< 100	100	< 100	100	< 100	100	< 82	82	< 120	120	< 100	100
tert-Butylbenzene	5,900	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Tetrachloroethene	1,300	19,000	1.2	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Tetrahydrofuran (THF)			< 10	10	< 10	10	< 10	10	< 8.2	8.2	< 12	12	< 10	10
Toluene	700	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
trans-1,2-Dichloroethene	190	100,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
trans-1,3-Dichloropropene			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
trans-1,4-dichloro-2-butene			< 10	10	< 10	10	< 10	10	< 8.2	8.2	< 12	12	< 10	10
Trichloroethene	470	21,000	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Trichlorofluoromethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Trichlorotrifluoroethane			< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Vinyl Chloride	20	900	< 5.0	5.0	< 5.0	5.0	< 5.2	5.2	< 4.1	4.1	< 6.1	6.1	< 5.1	5.1
Total BTEX Concentration			0.0		0.0		0.0		0.0		4.0		0.0	
Total VOCs Concentration			1.2		6.5		0.0		5.7		15.0		5.6	

Notes:

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

RL - Reporting Limit

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

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

Table 3
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Laboratory Results											
			19B6				19B7				19B8			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20)	
			11/7/2019		11/7/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 20	20	< 16	16	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,1,1-Trichloroethane	680	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,1,2,2-Tetrachloroethane			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,1,2-Trichloroethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,1-Dichloroethane	270	26,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,1-Dichloroethene	330	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,1-Dichloropropene			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2,3-Trichlorobenzene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2,3-Trichloropropane			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2,4-Trichlorobenzene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2,4-Trimethylbenzene	3,600	52,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2-Dibromo-3-chloropropane			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2-Dibromoethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2-Dichlorobenzene	1,100	100,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2-Dichloroethane	20	3,100	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,2-Dichloropropane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,3,5-Trimethylbenzene	8,400	52,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,3-Dichlorobenzene	2,400	4,900	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,3-Dichloropropane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,4-Dichlorobenzene	1,800	13,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
1,4-Dioxane			< 100	100	< 100	100	< 75	75	< 74	74	< 73	73	< 70	70
2,2-Dichloropropane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
2-Chlorotoluene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
2-Hexanone (Methyl Butyl Ketone)			< 25	25	< 20	20	< 17	17	< 27	27	< 24	24	< 23	23
2-Isopropyltoluene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
4-Chlorotoluene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
4-Methyl-2-Pentanone			< 25	25	< 20	20	< 17	17	< 27	27	< 24	24	< 23	23
Acetone	50	100,000	< 25	25	12	20	4.8	17	11	27	< 24	24	< 23	23
Acrolein			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Acrylonitrile			< 20	20	< 16	16	< 6.8	6.8	< 11	11	< 9.8	9.8	< 9.1	9.1
Benzene	60	4,800	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	1.2	4.9	< 4.6	4.6
Bromobenzene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Bromochloromethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Bromodichloromethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Bromoform			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Bromomethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Carbon Disulfide			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Carbon tetrachloride	760	2,400	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Chlorobenzene	1,100	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Chloroethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Chloroform	370	49,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Chloromethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
cis-1,2-Dichloroethene	250	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
cis-1,3-Dichloropropene			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Dibromochloromethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Dibromomethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Dichlorodifluoromethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Ethylbenzene	1,000	41,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Hexachlorobutadiene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Isopropylbenzene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
m&p-Xylenes	260	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	1	4.9	< 4.6	4.6
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 30	30	< 24	24	< 20	20	< 32	32	< 29	29	< 27	27
Methyl t-butyl ether (MTBE)	930	100,000	< 10	10	< 8.1	8.1	< 6.8	6.8	< 11	11	< 9.8	9.8	< 9.1	9.1
Methylene chloride	50	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Naphthalene	12,000	100,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
n-Butylbenzene	12,000	100,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
n-Propylbenzene	3,900	100,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
o-Xylene	260	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
p-Isopropyltoluene			< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
sec-Butylbenzene	11,000	100,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Styrene			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
tert-Butyl alcohol			< 100	100	< 81	81	< 68	68	< 110	110	< 98	98	< 91	91
tert-Butylbenzene	5,900	100,000	< 5.0	5.0	< 4.1	4.1	< 190	190	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Tetrachloroethene	1,300	19,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Tetrahydrofuran (THF)			< 10	10	< 8.1	8.1	< 6.8	6.8	< 11	11	< 9.8	9.8	< 9.1	9.1
Toluene	700	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	0.51	4.9	< 4.6	4.6
trans-1,2-Dichloroethene	190	100,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
trans-1,3-Dichloropropene			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
trans-1,4-dichloro-2-butene			< 10	10	< 8.1	8.1	< 380	380	< 11	11	< 9.8	9.8	< 9.1	9.1
Trichloroethene	470	21,000	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Trichlorofluoromethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Trichlorotrifluoroethane			< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Vinyl Chloride	20	900	< 5.0	5.0	< 4.1	4.1	< 3.4	3.4	< 5.3	5.3	< 4.9	4.9	< 4.6	4.6
Total BTEX Concentration			0.0		0.0		0.0		0.0		2.7		0.0	
Total VOCs Concentration			0.0		12.0		4.8		11.0		2.7		0.0	

Notes:

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

RL - Reporting Limit

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

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

Table 3
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Laboratory Results											
			19B9				19B10				19B11			
			(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20')	
			11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,1,1-Trichloroethane	680	100,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,1,2,2-Tetrachloroethane			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,1,2-Trichloroethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,1-Dichloroethane	270	26,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,1-Dichloroethene	330	100,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,1-Dichloropropene			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,2,3-Trichlorobenzene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,2,3-Trichloropropane			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,2,4-Trichlorobenzene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,2,4-Trimethylbenzene	3,600	52,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,2-Dibromo-3-chloropropane			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,2-Dibromoethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,2-Dichlorobenzene	1,100	100,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,2-Dichloroethane	20	3,100	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,2-Dichloropropane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,3,5-Trimethylbenzene	8,400	52,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,3-Dichlorobenzene	2,400	4,900	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,3-Dichloropropane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
1,4-Dichlorobenzene	1,800	13,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
1,4-Dioxane			< 71	71	< 74	74	< 75	75	< 73	73	< 75	75	< 74	74
2,2-Dichloropropane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
2-Chlorotoluene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
2-Hexanone (Methyl Butyl Ketone)			< 30	30	< 36	36	< 36	36	< 23	23	< 35	35	< 23	23
2-Isopropyltoluene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
4-Chlorotoluene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
4-Methyl-2-Pentanone			< 30	30	< 36	36	< 36	36	< 23	23	< 35	35	< 23	23
Acetone	50	100,000	< 30	30	11	36	9.1	36	< 23	23	7.8	35	6.8	23
Acrolein			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Acrylonitrile			< 12	12	< 14	14	< 14	14	< 9.2	9.2	< 14	14	< 9.1	9.1
Benzene	60	4,800	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Bromobenzene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
Bromochloromethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Bromodichloromethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Bromoform			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Bromomethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Carbon Disulfide			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Carbon tetrachloride	760	2,400	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Chlorobenzene	1,100	100,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Chloroethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Chloroform	370	49,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Chloromethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
cis-1,2-Dichloroethene	250	100,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
cis-1,3-Dichloropropene			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Dibromochloromethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Dibromomethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Dichlorodifluoromethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Ethylbenzene	1,000	41,000	< 6.0	6.0	< 7.2	7.2	96	650	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Hexachlorobutadiene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
Isopropylbenzene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
m&p-Xylenes	260	100,000	< 6.0	6.0	< 7.2	7.2	450	650	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 36	36	< 43	43	< 43	43	< 28	28	< 42	42	< 27	27
Methyl t-butyl ether (MTBE)	930	100,000	< 12	12	< 14	14	< 14	14	< 9.2	9.2	< 14	14	< 9.1	9.1
Methylene chloride	50	100,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Naphthalene	12,000	100,000	< 230	230	< 7.2	7.2	280	650	< 4.6	4.6	< 280	280	< 4.6	4.6
n-Butylbenzene	12,000	100,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
n-Propylbenzene	3,900	100,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
o-Xylene	260	100,000	< 6.0	6.0	< 7.2	7.2	3.7	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
p-Isopropyltoluene			< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
sec-Butylbenzene	11,000	100,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
Styrene			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
tert-Butyl alcohol			< 120	120	< 140	140	< 140	140	< 92	92	< 140	140	< 91	91
tert-Butylbenzene	5,900	100,000	< 230	230	< 7.2	7.2	< 650	650	< 4.6	4.6	< 280	280	< 4.6	4.6
Tetrachloroethene	1,300	19,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Tetrahydrofuran (THF)			< 12	12	< 14	14	< 14	14	< 9.2	9.2	< 14	14	< 9.1	9.1
Toluene	700	100,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
trans-1,2-Dichloroethene	190	100,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
trans-1,3-Dichloropropene			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
trans-1,4-dichloro-2-butene			< 450	450	< 14	14	< 1300	1,300	< 9.2	9.2	< 560	560	< 9.1	9.1
Trichloroethene	470	21,000	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Trichlorofluoromethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Trichlorotrifluoroethane			< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Vinyl Chloride	20	900	< 6.0	6.0	< 7.2	7.2	< 7.2	7.2	< 4.6	4.6	< 7.0	7.0	< 4.6	4.6
Total BTEX Concentration			0.0		0.0		549.7		0.0		0.0		0.0	
Total VOCs Concentration			0.0		11.0		838.8		0.0		7.8		6.8	

Notes:

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

RL - Reporting Limit

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

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

Table 3
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Laboratory Results											
			19B12				19B13				19B14			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/22/2019		11/22/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,1,1-Trichloroethane	680	100,000	< 25	25	< 4.7	4.7	< 21	21	< 20	20	< 21	21	< 4.6	4.6
1,1,2,2-Tetrachloroethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,1,2-Trichloroethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,1-Dichloroethane	270	26,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,1-Dichloroethene	330	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,1-Dichloropropene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2,3-Trichlorobenzene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2,3-Trichloropropane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2,4-Trichlorobenzene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2,4-Trimethylbenzene	3,600	52,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2-Dibromo-3-chloropropane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2-Dibromoethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2-Dichlorobenzene	1,100	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2-Dichloroethane	20	3,100	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,2-Dichloropropane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,3,5-Trimethylbenzene	8,400	52,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,3-Dichlorobenzene	2,400	4,900	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,3-Dichloropropane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
1,4-Dichlorobenzene	1,800	13,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	1.6	5.1	< 5.2	5.2	< 4.6	4.6
1,4-Dioxane			< 74	74	< 73	73	< 72	72	< 74	74	< 74	74	< 72	72
2,2-Dichloropropane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
2-Chlorotoluene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
2-Hexanone (Methyl Butyl Ketone)			< 32	32	< 24	24	< 26	26	< 25	25	< 26	26	< 23	23
2-Isopropyltoluene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
4-Chlorotoluene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
4-Methyl-2-Pentanone			< 32	32	< 24	24	< 26	26	< 25	25	< 26	26	< 23	23
Acetone	50	100,000	< 32	32	< 24	24	9.8	26	7.1	25	9.4	26	6	23
Acrolein			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Acrylonitrile			< 25	25	< 9.4	9.4	< 21	21	< 20	20	< 21	21	< 9.2	9.2
Benzene	60	4,800	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Bromobenzene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Bromochloromethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Bromodichloromethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Bromoform			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Bromomethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Carbon Disulfide			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Carbon tetrachloride	760	2,400	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Chlorobenzene	1,100	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Chloroethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Chloroform	370	49,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Chloromethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
cis-1,2-Dichloroethene	250	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	3.5	5.1	< 5.2	5.2	< 4.6	4.6
cis-1,3-Dichloropropene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Dibromochloromethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Dibromomethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Dichlorodifluoromethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Ethylbenzene	1,000	41,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Hexachlorobutadiene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Isopropylbenzene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
m&p-Xylenes	260	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 38	38	< 28	28	< 32	32	< 30	30	< 31	31	< 28	28
Methyl t-butyl ether (MTBE)	930	100,000	< 13	13	< 9.4	9.4	< 11	11	< 10	10	< 10	10	< 9.2	9.2
Methylene chloride	50	100,000	< 6.4	6.4	5.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Naphthalene	12,000	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
n-Butylbenzene	12,000	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
n-Propylbenzene	3,900	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
o-Xylene	260	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
p-Isopropyltoluene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
sec-Butylbenzene	11,000	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Styrene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
tert-Butyl alcohol			< 130	130	< 94	94	< 110	110	< 100	100	< 100	100	< 92	92
tert-Butylbenzene	5,900	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Tetrachloroethene	1,300	19,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	620	5.1	1.8	5.2	1.5	4.6
Tetrahydrofuran (THF)			< 13	13	< 9.4	9.4	< 11	11	< 10	10	< 10	10	< 9.2	9.2
Toluene	700	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
trans-1,2-Dichloroethene	190	100,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
trans-1,3-Dichloropropene			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
trans-1,4-dichloro-2-butene			< 13	13	< 9.4	9.4	< 11	11	< 10	10	< 10	10	< 9.2	9.2
Trichloroethene	470	21,000	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	10	5.1	< 5.2	5.2	< 4.6	4.6
Trichlorofluoromethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Trichlorotrifluoroethane			< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Vinyl Chloride	20	900	< 6.4	6.4	< 4.7	4.7	< 5.3	5.3	< 5.1	5.1	< 5.2	5.2	< 4.6	4.6
Total BTEX Concentration			0.0		0.0		0.0		0.0		0.0		0.0	
Total VOCs Concentration			0.0		5.7		9.8		642.2		11.2		7.5	

Notes:

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

RL - Reporting Limit

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

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

Table 3
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Laboratory Results											
			19B15				19B16				19B17			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/7/2019		11/7/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 16	16
1,1,1-Trichloroethane	680	100,000	< 25	25	< 16	16	< 32	32	< 20	20	< 4.2	4.2	< 3.9	3.9
1,1,2,2-Tetrachloroethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,1,2-Trichloroethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,1-Dichloroethane	270	26,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,1-Dichloroethene	330	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,1-Dichloropropene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2,3-Trichlorobenzene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2,3-Trichloropropane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2,4-Trichlorobenzene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2,4-Trimethylbenzene	3,600	52,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	0.71	4.2	< 3.9	3.9
1,2-Dibromo-3-chloropropane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2-Dibromoethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2-Dichlorobenzene	1,100	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2-Dichloroethane	20	3,100	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,2-Dichloropropane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,3,5-Trimethylbenzene	8,400	52,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	0.65	4.2	< 3.9	3.9
1,3-Dichlorobenzene	2,400	4,900	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,3-Dichloropropane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,4-Dichlorobenzene	1,800	13,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
1,4-Dioxane			< 73	73	< 71	71	< 71	71	< 78	78	< 100	100	< 100	100
2,2-Dichloropropane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
2-Chlorotoluene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
2-Hexanone (Methyl Butyl Ketone)			< 31	31	< 20	20	< 40	40	< 24	24	< 21	21	< 20	20
2-Isopropyltoluene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
4-Chlorotoluene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
4-Methyl-2-Pentanone			< 31	31	< 20	20	< 40	40	< 24	24	< 21	21	< 20	20
Acetone	50	100,000	< 31	31	< 20	20	< 40	40	< 24	24	6.6	21	6.6	20
Acrolein			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Acrylonitrile			< 25	25	< 16	16	< 32	32	< 20	20	< 8.4	8.4	< 16	16
Benzene	60	4,800	< 6.3	6.3	< 4.1	4.1	0.84	8.0	< 4.9	4.9	1.6	4.2	< 3.9	3.9
Bromobenzene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Bromochloromethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Bromodichloromethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Bromoform			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Bromomethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Carbon Disulfide			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	1.1	3.9
Carbon tetrachloride	760	2,400	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Chlorobenzene	1,100	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Chloroethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Chloroform	370	49,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Chloromethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
cis-1,2-Dichloroethene	250	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
cis-1,3-Dichloropropene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Dibromochloromethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Dibromomethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Dichlorodifluoromethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Ethylbenzene	1,000	41,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	0.48	4.2	< 3.9	3.9
Hexachlorobutadiene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Isopropylbenzene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
m&p-Xylenes	260	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	1.6	4.2	< 3.9	3.9
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 38	38	< 24	24	< 48	48	< 29	29	< 25	25	< 24	24
Methyl t-butyl ether (MTBE)	930	100,000	< 13	13	< 8.1	8.1	< 16	16	< 9.8	9.8	< 8.4	8.4	< 7.9	7.9
Methylene chloride	50	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Naphthalene	12,000	100,000	< 6.3	6.3	< 4.1	4.1	5.1	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
n-Butylbenzene	12,000	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
n-Propylbenzene	3,900	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
o-Xylene	260	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	0.86	4.2	< 3.9	3.9
p-Isopropyltoluene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
sec-Butylbenzene	11,000	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Styrene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
tert-Butyl alcohol			< 130	130	< 81	81	< 160	160	< 98	98	< 84	84	< 79	79
tert-Butylbenzene	5,900	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Tetrachloroethene	1,300	19,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Tetrahydrofuran (THF)			< 13	13	< 8.1	8.1	< 16	16	< 9.8	9.8	< 8.4	8.4	< 7.9	7.9
Toluene	700	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	1.9	4.2	< 3.9	3.9
trans-1,2-Dichloroethene	190	100,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
trans-1,3-Dichloropropene			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
trans-1,4-dichloro-2-butene			< 13	13	< 8.1	8.1	< 16	16	< 9.8	9.8	< 8.4	8.4	< 7.9	7.9
Trichloroethene	470	21,000	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Trichlorofluoromethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Trichlorotrifluoroethane			< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Vinyl Chloride	20	900	< 6.3	6.3	< 4.1	4.1	< 8.0	8.0	< 4.9	4.9	< 4.2	4.2	< 3.9	3.9
Total BTEX Concentration			0.0		0.0		0.8		0.0		6.4		0.0	
Total VOCs Concentration			0.0		0.0		5.9		0.0		14.4		7.7	

Notes:

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

RL - Reporting Limit

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

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

Table 3
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	RI Laboratory Results					
			19B18					
			(0-2')		(18-20)		(28')	
			11/6/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,1,1-Trichloroethane	680	100,000	< 5.9	5.9	< 680	680	< 4.0	4.0
1,1,2,2-Tetrachloroethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,1,2-Trichloroethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,1-Dichloroethane	270	26,000	< 5.9	5.9	< 960	960	< 4.0	4.0
1,1-Dichloroethene	330	100,000	< 5.9	5.9	< 480	480	< 4.0	4.0
1,1-Dichloropropene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,2,3-Trichlorobenzene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,2,3-Trichloropropane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,2,4-Trichlorobenzene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,2,4-Trimethylbenzene	3,600	52,000	< 5.9	5.9	110,000	4,800	< 4.0	4.0
1,2-Dibromo-3-chloropropane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,2-Dibromoethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,2-Dichlorobenzene	1,100	100,000	< 5.9	5.9	< 1100	1,100	< 4.0	4.0
1,2-Dichloroethane	20	3,100	< 5.9	5.9	< 480	480	< 4.0	4.0
1,2-Dichloropropane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,3,5-Trimethylbenzene	8,400	52,000	< 5.9	5.9	35,000	4,800	< 4.0	4.0
1,3-Dichlorobenzene	2,400	4,900	< 5.9	5.9	< 2400	2,400	< 4.0	4.0
1,3-Dichloropropane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
1,4-Dichlorobenzene	1,800	13,000	< 5.9	5.9	< 1800	1,800	< 4.0	4.0
1,4-Dioxane			< 71	71	< 74	74	< 74	74
2,2-Dichloropropane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
2-Chlorotoluene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
2-Hexanone (Methyl Butyl Ketone)			< 30	30	< 24000	24,000	< 20	20
2-Isopropyltoluene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
4-Chlorotoluene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
4-Methyl-2-Pentanone			< 30	30	< 24000	24,000	< 20	20
Acetone	50	100,000	< 30	30	< 4800	4,800	< 20	20
Acrolein			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Acrylonitrile			< 12	12	< 9600	9,600	< 7.9	7.9
Benzene	60	4,800	< 5.9	5.9	< 480	480	< 4.0	4.0
Bromobenzene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Bromochloromethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Bromodichloromethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Bromoforn			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Bromomethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Carbon Disulfide			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Carbon tetrachloride	760	2,400	< 5.9	5.9	< 960	960	< 4.0	4.0
Chlorobenzene	1,100	100,000	< 5.9	5.9	< 1100	1,100	< 4.0	4.0
Chloroethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Chloroform	370	49,000	< 5.9	5.9	< 480	480	< 4.0	4.0
Chloromethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
cis-1,2-Dichloroethene	250	100,000	< 5.9	5.9	< 480	480	< 4.0	4.0
cis-1,3-Dichloropropene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Dibromochloromethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Dibromomethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Dichlorodifluoromethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Ethylbenzene	1,000	41,000	< 5.9	5.9	38,000	4,800	< 4.0	4.0
Hexachlorobutadiene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Isopropylbenzene			< 5.9	5.9	5,400	4,800	< 4.0	4.0
m&p-Xylenes	260	100,000	< 5.9	5.9	110,000	4,800	< 4.0	4.0
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 35	35	< 1900	1,900	< 24	24
Methyl t-butyl ether (MTBE)	930	100,000	< 12	12	< 960	960	< 7.9	7.9
Methylene chloride	50	100,000	< 5.9	5.9	< 1900	1,900	< 4.0	4.0
Naphthalene	12,000	100,000	< 5.9	5.9	16,000	4,800	< 4.0	4.0
n-Butylbenzene	12,000	100,000	< 5.9	5.9	5,800	4,800	< 4.0	4.0
n-Propylbenzene	3,900	100,000	< 5.9	5.9	22,000	4,800	< 4.0	4.0
o-Xylene	260	100,000	< 5.9	5.9	33,000	4,800	< 4.0	4.0
p-Isopropyltoluene			< 5.9	5.9	1,200	4,800	< 4.0	4.0
sec-Butylbenzene	11,000	100,000	< 5.9	5.9	2,400	4,800	< 4.0	4.0
Styrene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
tert-Butyl alcohol			< 120	120	< 96000	96,000	< 79	79
tert-Butylbenzene	5,900	100,000	< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Tetrachloroethene	1,300	19,000	< 5.9	5.9	< 1300	1,300	< 4.0	4.0
Tetrahydrofuran (THF)			< 12	12	< 9600	9,600	< 7.9	7.9
Toluene	700	100,000	< 5.9	5.9	7,900	4,800	< 4.0	4.0
trans-1,2-Dichloroethene	190	100,000	< 5.9	5.9	< 480	480	< 4.0	4.0
trans-1,3-Dichloropropene			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
trans-1,4-dichloro-2-butene			< 12	12	< 9600	9,600	< 7.9	7.9
Trichloroethene	470	21,000	< 5.9	5.9	< 480	480	< 4.0	4.0
Trichlorofluoromethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Trichlorotrifluoroethane			< 5.9	5.9	< 4800	4,800	< 4.0	4.0
Vinyl Chloride	20	900	< 5.9	5.9	< 480	480	< 4.0	4.0
Total BTEX Concentration			0.0		188900.0		0.0	
Total VOCs Concentration			0.0		386700.0		0.0	

Notes:

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

RL - Reporting Limit

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

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

Table 4
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives µg/Kg	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* µg/Kg	RI Laboratory Results									
			19B1						19B2			
			(0-2')		(20-22')		(36')		(0-2')		(18-20')	
			11/7/2019		11/7/2019		11/7/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
1,2,4-Trichlorobenzene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
1,2-Dichlorobenzene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
1,2-Diphenylhydrazine			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
1,3-Dichlorobenzene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
1,4-Dichlorobenzene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2,4,5-Trichlorophenol			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
2,4-Dichlorophenol			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
2,4-Dimethylphenol			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2,4-Dinitrophenol			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2,4-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
2,6-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
2-Chloronaphthalene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2-Chlorophenol			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2-Methylnaphthalene			< 250	250	390	250	< 270	270	< 240	240	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2-Nitroaniline			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
2-Nitrophenol			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
3&4-Methylphenol (m&p-creso	330	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
3-Nitroaniline			< 360	360	< 370	370	< 390	390	< 350	350	< 370	370
4,6-Dinitro-2-methylphenol			< 210	210	< 220	220	< 230	230	< 210	210	< 220	220
4-Bromophenyl phenyl ether			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
4-Chloro-3-methylphenol			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
4-Chloroaniline			< 280	280	< 300	300	< 310	310	< 280	280	< 300	300
4-Chlorophenyl phenyl ether			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
4-Nitroaniline			< 360	360	< 370	370	< 390	390	< 350	350	< 370	370
4-Nitrophenol			< 360	360	< 370	370	< 390	390	< 350	350	< 370	370
Acenaphthene	20,000	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Acenaphthylene	100,000	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Acetophenone			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Aniline			< 280	280	< 300	300	< 310	310	< 280	280	< 300	300
Anthracene	100,000	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Benz(a)anthracene	1,000	1,000	< 250	250	< 250	250	< 270	270	140	240	< 250	250
Benztidine			< 360	360	< 370	370	< 390	390	< 350	350	< 370	370
Benzo(a)pyrene	1,000	1,000	< 180	180	< 180	180	< 190	190	160	170	< 180	180
Benzo(b)fluoranthene	1,000	1,000	< 250	250	< 250	250	< 270	270	190	240	< 250	250
Benzo(ghi)perylene	100,000	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Benzo(k)fluoranthene	800	3,900	< 250	250	< 250	250	< 270	270	180	240	< 250	250
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1800	1,800
Benzyl butyl phthalate			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Bis(2-chloroethoxy)methane			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
Bis(2-chloroisopropyl)ether			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Bis(2-ethylhexyl)phthalate			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Carbazole			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
Chrysene	1,000	3,900	< 250	250	< 250	250	< 270	270	250	240	< 250	250
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
Dibenzofuran	7,000	59,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Diethyl phthalate			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Dimethylphthalate			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Di-n-butylphthalate			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Di-n-octylphthalate			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Fluoranthene	100,000	100,000	< 250	250	< 250	250	< 270	270	320	240	< 250	250
Fluorene	30,000	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Hexachlorobenzene			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
Hexachlorobutadiene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Hexachlorocyclopentadiene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Hexachloroethane			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Isophorone			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
Naphthalene	12,000	100,000	< 250	250	530	250	< 270	270	< 240	240	< 250	250
Nitrobenzene			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
N-Nitrosodimethylamine			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 190	190	< 170	170	< 180	180
N-Nitrosodiphenylamine			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Pentachloronitrobenzene			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Pentachlorophenol	800	6,700	< 210	210	< 220	220	< 230	230	< 210	210	< 220	220
Phenanthrene	100,000	100,000	< 250	250	< 250	250	< 270	270	190	240	< 250	250
Phenol	330	100,000	< 250	250	< 250	250	< 270	270	< 240	240	< 250	250
Pyrene	100,000	100,000	< 250	250	< 250	250	< 270	270	280	240	< 250	250
Pyridine			< 250	250	< 250	250	< 270	270	< 240	240	< 250	250

Notes:

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

RL - Reporting Limit

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

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

Table 4
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives µg/Kg	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* µg/Kg	RI Laboratory Results											
			19B3				19B4				19B5			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
1,2-Dichlorobenzene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
1,3-Dichlorobenzene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
1,4-Dichlorobenzene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
2,4-Dichlorophenol			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
2,4-Dimethylphenol			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2,4-Dinitrophenol			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2,4-Dinitrotoluene			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
2,6-Dinitrotoluene			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
2-Chloronaphthalene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2-Chlorophenol			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2-Methylnaphthalene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2-Nitroaniline			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
2-Nitrophenol			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
3-Nitroaniline			< 370	370	< 360	360	< 350	350	< 350	350	< 340	340	< 350	350
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 210	210	< 210	210	< 200	200	< 210	210
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
4-Chloroaniline			< 300	300	< 290	290	< 280	280	< 280	280	< 270	270	< 280	280
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
4-Nitroaniline			< 370	370	< 360	360	< 350	350	< 350	350	< 340	340	< 350	350
4-Nitrophenol			< 370	370	< 360	360	< 350	350	< 350	350	< 340	340	< 350	350
Acenaphthene	20,000	100,000	150	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Acetophenone			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Aniline			< 300	300	< 290	290	< 280	280	< 280	280	< 270	270	< 280	280
Anthracene	100,000	100,000	400	260	< 250	250	< 240	240	< 250	250	500	240	< 240	240
Benz(a)anthracene	1,000	1,000	710	260	< 250	250	170	240	< 250	250	3,100	240	< 240	240
Benztidine			< 370	370	< 360	360	< 350	350	< 350	350	< 340	340	< 350	350
Benzo(a)pyrene	1,000	1,000	690	190	< 180	180	190	170	< 180	180	2,700	170	< 170	170
Benzo(b)fluoranthene	1,000	1,000	700	260	< 250	250	210	240	< 250	250	2,800	240	< 240	240
Benzo(ghi)perylene	100,000	100,000	320	260	< 250	250	< 240	240	< 250	250	2,000	240	< 240	240
Benzo(k)fluoranthene	800	3,900	600	260	< 250	250	170	240	< 250	250	2,300	240	< 240	240
Benzoic acid			< 1900	1,900	< 1800	1,800	< 1700	1,700	< 1800	1,800	< 1700	1,700	< 1700	1,700
Benzyl butyl phthalate			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Bis(2-ethylhexyl)phthalate			430	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Carbazole			150	190	< 180	180	< 170	170	< 180	180	140	170	< 170	170
Chrysene	1,000	3,900	700	260	< 250	250	200	240	< 250	250	3,500	240	< 240	240
Dibenz(a,h)anthracene	330	330	< 190	190	< 180	180	< 170	170	< 180	180	400	170	< 170	170
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Diethyl phthalate			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Dimethylphthalate			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Di-n-butylphthalate			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Di-n-octylphthalate			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Fluoranthene	100,000	100,000	1,700	260	< 250	250	300	240	< 250	250	6,600	240	< 240	240
Fluorene	30,000	100,000	160	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Hexachlorobenzene			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
Hexachlorobutadiene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Hexachloroethane			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
Indeno(1,2,3-cd)pyrene	500	500	360	260	< 250	250	120	240	< 250	250	2,200	240	< 240	240
Isophorone			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
Naphthalene	12,000	100,000	< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Nitrobenzene			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
N-Nitrosodimethylamine			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 170	170	< 180	180	< 170	170	< 170	170
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Pentachloronitrobenzene			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 210	210	< 210	210	< 200	200	< 210	210
Phenanthrene	100,000	100,000	1,300	260	< 250	250	140	240	< 250	250	2,100	240	< 240	240
Phenol	330	100,000	< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240
Pyrene	100,000	100,000	1,400	260	< 250	250	290	240	< 250	250	5,900	240	< 240	240
Pyridine			< 260	260	< 250	250	< 240	240	< 250	250	< 240	240	< 240	240

Notes:

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

RL - Reporting Limit

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

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

Table 4
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives µg/Kg	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* µg/Kg	RI Laboratory Results											
			19B6				19B7				19B8			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/7/2019		11/7/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
1,2,4-Trichlorobenzene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
1,2-Dichlorobenzene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
1,2-Diphenylhydrazine			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
1,3-Dichlorobenzene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
1,4-Dichlorobenzene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2,4,5-Trichlorophenol			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
2,4-Dichlorophenol			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
2,4-Dimethylphenol			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2,4-Dinitrophenol			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2,4-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
2,6-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
2-Chloronaphthalene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2-Chlorophenol			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2-Methylnaphthalene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2-Nitroaniline			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
2-Nitrophenol			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
3&4-Methylphenol (m&p-cresol)	330	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
3-Nitroaniline			< 360	360	< 360	360	< 380	380	< 370	370	< 370	370	< 350	350
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 230	230	< 220	220	< 220	220	< 210	210
4-Bromophenyl phenyl ether			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
4-Chloro-3-methylphenol			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
4-Chloroaniline			< 290	290	< 290	290	< 300	300	< 300	300	< 300	300	< 280	280
4-Chlorophenyl phenyl ether			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
4-Nitroaniline			< 360	360	< 360	360	< 380	380	< 370	370	< 370	370	< 350	350
4-Nitrophenol			< 360	360	< 360	360	< 380	380	< 370	370	< 370	370	< 350	350
Acenaphthene	20,000	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Acenaphthylene	100,000	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Acetophenone			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Aniline			< 290	290	< 290	290	< 300	300	< 300	300	< 300	300	< 280	280
Anthracene	100,000	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Benz(a)anthracene	1,000	1,000	280	250	< 250	250	< 260	260	< 260	260	140	260	< 250	250
Benztidine			< 360	360	< 360	360	< 380	380	< 370	370	< 370	370	< 350	350
Benzo(a)pyrene	1,000	1,000	490	180	< 180	180	< 190	190	< 190	190	160	190	< 180	180
Benzo(b)fluoranthene	1,000	1,000	430	250	< 250	250	130	260	< 260	260	150	260	< 250	250
Benzo(ghi)perylene	100,000	100,000	340	250	< 250	250	< 260	260	< 260	260	150	260	< 250	250
Benzo(k)fluoranthene	800	3,900	360	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1900	1,900	< 1900	1,900	< 1800	1,800
Benzyl butyl phthalate			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Bis(2-chloroethoxy)methane			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
Bis(2-chloroisopropyl)ether			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Bis(2-ethylhexyl)phthalate			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Carbazole			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
Chrysene	1,000	3,900	280	250	< 250	250	< 260	260	< 260	260	150	260	< 250	250
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
Dibenzofuran	7,000	59,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Diethyl phthalate			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Dimethylphthalate			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Di-n-butylphthalate			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Di-n-octylphthalate			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Fluoranthene	100,000	100,000	610	250	< 250	250	160	260	< 260	260	230	260	< 250	250
Fluorene	30,000	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Hexachlorobenzene			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
Hexachlorobutadiene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Hexachlorocyclopentadiene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Hexachloroethane			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	380	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Isophorone			< 180	180	< 180	180	< 190	190	< 190	190	< 450	450	< 180	180
Naphthalene	12,000	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Nitrobenzene			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
N-Nitrosodimethylamine			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 190	190	< 190	190	< 190	190	< 180	180
N-Nitrosodiphenylamine			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Pentachloronitrobenzene			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 230	230	< 220	220	< 220	220	< 210	210
Phenanthrene	100,000	100,000	410	250	< 250	250	< 260	260	< 260	260	130	260	< 250	250
Phenol	330	100,000	< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250
Pyrene	100,000	100,000	540	250	< 250	250	150	260	< 260	260	260	260	< 250	250
Pyridine			< 250	250	< 250	250	< 260	260	< 260	260	< 260	260	< 250	250

Notes:

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

RL - Reporting Limit

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

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

Table 4
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives µg/Kg	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* µg/Kg	RI Laboratory Results											
			19B9				19B10				19B11			
			(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20)	
			11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
1,2,4-Trichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
1,2-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
1,2-Diphenylhydrazine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
1,3-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
1,4-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2,4,5-Trichlorophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2,4-Dimethylphenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2,4-Dinitrophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2-Chloronaphthalene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2-Chlorophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2-Methylnaphthalene			< 250	250	< 260	260	130	260	< 260	260	< 260	260	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2-Nitroaniline			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
2-Nitrophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
3&4-Methylphenol (m&p-cresol)	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
3-Nitroaniline			< 350	350	< 360	360	< 370	370	< 370	370	< 370	370	< 370	370
4,6-Dinitro-2-methylphenol			< 210	210	< 220	220	< 220	220	< 220	220	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
4-Chloro-3-methylphenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
4-Chloroaniline			< 280	280	< 290	290	< 290	290	< 290	290	< 300	300	< 290	290
4-Chlorophenyl phenyl ether			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
4-Nitroaniline			< 350	350	< 360	360	< 370	370	< 370	370	< 370	370	< 370	370
4-Nitrophenol			< 350	350	< 360	360	< 370	370	< 370	370	< 370	370	< 370	370
Acenaphthene	20,000	100,000	< 250	250	< 260	260	490	260	< 260	260	< 260	260	< 260	260
Acenaphthylene	100,000	100,000	< 250	250	< 260	260	410	260	< 260	260	< 260	260	< 260	260
Acetophenone			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Aniline			< 280	280	< 290	290	< 290	290	< 290	290	< 300	300	< 290	290
Anthracene	100,000	100,000	< 250	250	< 260	260	1,800	260	< 260	260	< 260	260	< 260	260
Benz(a)anthracene	1,000	1,000	130	250	< 260	260	5,800	260	< 260	260	220	260	< 260	260
Benztidine			< 350	350	< 360	360	< 370	370	< 370	370	< 370	370	< 370	370
Benzo(a)pyrene	1,000	1,000	120	180	< 180	180	5,800	180	< 180	180	470	190	< 180	180
Benzo(b)fluoranthene	1,000	1,000	< 250	250	< 260	260	6,500	2,600	< 260	260	580	260	< 260	260
Benzo(ghi)perylene	100,000	100,000	120	250	< 260	260	2,600	260	< 260	260	220	260	< 260	260
Benzo(k)fluoranthene	800	3,900	120	250	< 260	260	3,200	260	< 260	260	450	260	< 260	260
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800
Benzyl butyl phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Bis(2-chloroethoxy)methane			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Bis(2-chloroisopropyl)ether			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Bis(2-ethylhexyl)phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Carbazole			< 180	180	< 180	180	620	180	< 180	180	< 190	190	< 180	180
Chrysene	1,000	3,900	150	250	< 260	260	5,600	260	< 260	260	250	260	< 260	260
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	1,100	180	< 180	180	< 190	190	< 180	180
Dibenzofuran	7,000	59,000	< 250	250	< 260	260	390	260	< 260	260	< 260	260	< 260	260
Diethyl phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Dimethylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Di-n-butylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Di-n-octylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Fluoranthene	100,000	100,000	240	250	< 260	260	16,000	2,600	< 260	260	310	260	< 260	260
Fluorene	30,000	100,000	< 250	250	< 260	260	670	260	< 260	260	< 260	260	< 260	260
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Hexachlorobutadiene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Hexachlorocyclopentadiene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	< 250	250	< 260	260	3,400	260	< 260	260	270	260	< 260	260
Isophorone			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Naphthalene	12,000	100,000	< 250	250	< 260	260	180	260	< 260	260	< 260	260	< 260	260
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
N-Nitrosodimethylamine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
N-Nitrosodi-n-propylamine			< 180	180	< 180	180		180	< 180	180	< 190	190	< 180	180
N-Nitrosodiphenylamine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Pentachloronitrobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Pentachlorophenol	800	6,700	< 210	210	< 220	220	< 220	220	< 220	220	< 220	220	< 220	220
Phenanthrene	100,000	100,000	130	250	< 260	260	11,000	2,600	< 260	260	170	260	< 260	260
Phenol	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260
Pyrene	100,000	100,000	220	250	< 260	260	14,000	2,600	< 260	260	290	260	< 260	260
Pyridine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 4
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives µg/Kg	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* µg/Kg	RI Laboratory Results											
			19B12				19B13				19B14			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/22/2019		11/22/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,2,4-Trichlorobenzene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Dichlorobenzene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Diphenylhydrazine			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,3-Dichlorobenzene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
1,4-Dichlorobenzene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4,5-Trichlorophenol			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2,4-Dichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2,4-Dimethylphenol			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dinitrophenol			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2,6-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
2-Chloronaphthalene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Chlorophenol			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Methylnaphthalene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Nitroaniline			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
2-Nitrophenol			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
3,4-Methylphenol (m&p-cresol)	330	100,000	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
3-Nitroaniline			< 370	370	< 370	370	< 350	350	< 370	370	< 380	380	< 370	370
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 210	210	< 220	220	< 230	230	< 220	220
4-Bromophenyl phenyl ether			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloro-3-methylphenol			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloroaniline			< 300	300	< 290	290	< 280	280	< 290	290	< 300	300	< 290	290
4-Chlorophenyl phenyl ether			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
4-Nitroaniline			< 370	370	< 370	370	< 350	350	< 370	370	< 380	380	< 370	370
4-Nitrophenol			< 370	370	< 370	370	< 350	350	< 370	370	< 380	380	< 370	370
Acenaphthene	20,000	100,000	180	250	< 250	250	< 250	250	< 250	250	220	250	< 250	250
Acenaphthylene	100,000	100,000	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Acetophenone			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Aniline			< 300	300	< 290	290	< 280	280	< 290	290	< 300	300	< 290	290
Anthracene	100,000	100,000	450	250	< 250	250	< 250	250	< 250	250	450	250	< 250	250
Benz(a)anthracene	1,000	1,000	1,600	250	< 250	250	170	250	< 250	250	980	250	< 250	250
Benztidine			< 370	370	< 370	370	< 350	350	< 370	370	< 380	380	< 370	370
Benzo(a)pyrene	1,000	1,000	1,600	190	< 180	180	170	180	< 180	180	920	190	< 180	180
Benzo(b)fluoranthene	1,000	1,000	1,300	250	< 250	250	150	250	< 250	250	730	250	< 250	250
Benzo(ghi)perylene	100,000	100,000	830	250	< 250	250	130	250	< 250	250	450	250	< 250	250
Benzo(k)fluoranthene	800	3,900	1,200	250	< 250	250	130	250	< 250	250	670	250	< 250	250
Benzoic acid			< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800
Benzyl butyl phthalate			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethoxy)methane			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Bis(2-chloroisopropyl)ether			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-ethylhexyl)phthalate			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Carbazole			220	190	< 180	180	< 180	180	< 180	180	170	190	< 180	180
Chrysene	1,000	3,900	1,600	250	< 250	250	190	250	< 250	250	910	250	< 250	250
Dibenz(a,h)anthracene	330	330	240	190	< 180	180	< 180	180	< 180	180	150	190	< 180	180
Dibenzofuran	7,000	59,000	110	250	< 250	250	< 250	250	< 250	250	160	250	< 250	250
Diethyl phthalate			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Dimethylphthalate			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-butylphthalate			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-octylphthalate			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Fluoranthene	100,000	100,000	3,100	250	< 250	250	310	250	< 250	250	2,200	250	< 250	250
Fluorene	30,000	100,000	170	250	< 250	250	< 250	250	< 250	250	200	250	< 250	250
Hexachlorobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Hexachlorobutadiene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Hexachlorocyclopentadiene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Hexachloroethane			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	1,000	250	< 250	250	130	250	< 250	250	580	250	< 250	250
Isophorone			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
Naphthalene	12,000	100,000	< 250	250	< 250	250	< 250	250	< 250	250	120	250	< 250	250
Nitrobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
N-Nitrosodimethylamine			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 180	180	< 180	180	< 190	190	< 180	180
N-Nitrosodiphenylamine			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Pentachloronitrobenzene			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 210	210	< 220	220	< 230	230	< 220	220
Phenanthrene	100,000	100,000	2,600	250	< 250	250	250	250	< 250	250	2,000	250	< 250	250
Phenol	330	100,000	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250
Pyrene	100,000	100,000	2,600	250	< 250	250	280	250	< 250	250	1,900	250	< 250	250
Pyridine			< 250	250	< 250	250	< 250	250	< 250	250	< 250	250	< 250	250

Notes:

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

RL - Reporting Limit

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

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

Table 4
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives µg/Kg	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* µg/Kg	RI Laboratory Results											
			19B15				19B16				19B17			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/7/2019		11/7/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
1,2-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
1,3-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
1,4-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
2,4-Dichlorophenol			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
2,4-Dimethylphenol			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2,4-Dinitrophenol			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2,4-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
2,6-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
2-Chloronaphthalene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2-Chlorophenol			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2-Methylnaphthalene			< 260	260	< 250	250	480	250	< 270	270	< 250	250	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2-Nitroaniline			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
2-Nitrophenol			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
3&4-Methylphenol (m&p-cresol)	330	100,000	< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
3-Nitroaniline			< 370	370	< 360	360	< 360	360	< 390	390	< 360	360	< 360	360
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 220	220	< 230	230	< 210	210	< 220	220
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
4-Chloroaniline			< 300	300	< 290	290	< 290	290	< 310	310	< 290	290	< 290	290
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
4-Nitroaniline			< 370	370	< 360	360	< 360	360	< 390	390	< 360	360	< 360	360
4-Nitrophenol			< 370	370	< 360	360	< 360	360	< 390	390	< 360	360	< 360	360
Acenaphthene	20,000	100,000	160	260	< 250	250	600	250	< 270	270	< 250	250	< 260	260
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	250	250	< 270	270	140	250	< 260	260
Acetophenone			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Aniline			< 300	300	< 290	290	< 290	290	< 310	310	< 290	290	< 290	290
Anthracene	100,000	100,000	430	260	< 250	250	1,600	250	< 270	270	< 250	250	< 260	260
Benz(a)anthracene	1,000	1,000	1,300	260	< 250	250	5,200	250	< 270	270	570	250	< 260	260
Benztidine			< 370	370	< 360	360	< 360	360	< 390	390	< 360	360	< 360	360
Benzo(a)pyrene	1,000	1,000	1,300	190	< 180	180	4,900	180	< 190	190	630	180	< 180	180
Benzo(b)fluoranthene	1,000	1,000	1,100	260	< 250	250	4,000	250	< 270	270	520	250	< 260	260
Benzo(ghi)perylene	100,000	100,000	720	260	< 250	250	2,600	250	< 270	270	450	250	< 260	260
Benzo(k)fluoranthene	800	3,900	1,000	260	< 250	250	3,400	250	< 270	270	490	250	< 260	260
Benzoic acid			< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800
Benzyl butyl phthalate			< 260	260	< 250	250	< 250	250	< 270	270	6,300	250	< 260	260
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 250	250	< 270	270	580	250	< 260	260
Carbazole			300	190	< 180	180	880	180	< 190	190	< 180	180	< 180	180
Chrysene	1,000	3,900	1,300	260	< 250	250	5,000	250	< 270	270	530	250	< 260	260
Dibenz(a,h)anthracene	330	330	210	190	< 180	180	780	180	< 190	190	< 180	180	< 180	180
Dibenzofuran	7,000	59,000	120	260	< 250	250	680	250	< 270	270	< 250	250	< 260	260
Diethyl phthalate			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Dimethylphthalate			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Di-n-butylphthalate			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Di-n-octylphthalate			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Fluoranthene	100,000	100,000	2,700	260	< 250	250	14,000	2,500	< 270	270	1,100	250	< 260	260
Fluorene	30,000	100,000	170	260	< 250	250	550	250	< 270	270	< 250	250	< 260	260
Hexachlorobenzene			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
Hexachlorobutadiene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Hexachloroethane			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	870	260	< 250	250	3,100	250	< 270	270	530	250	< 260	260
Isophorone			< 190	190	< 180	180	< 180	180	< 190	190	< 1400	1,400	< 180	180
Naphthalene	12,000	100,000	< 260	260	< 250	250	740	250	< 270	270	< 250	250	< 260	260
Nitrobenzene			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
N-Nitrosodimethylamine			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 180	180	< 190	190	< 180	180	< 180	180
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Pentachloronitrobenzene			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 220	220	< 230	230	< 210	210	< 220	220
Phenanthrene	100,000	100,000	2,200	260	< 250	250	12,000	2,500	< 270	270	400	250	< 260	260
Phenol	330	100,000	< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260
Pyrene	100,000	100,000	2,100	260	< 250	250	13,000	2,500	< 270	270	990	250	< 260	260
Pyridine			< 260	260	< 250	250	< 250	250	< 270	270	< 250	250	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 4
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives µg/Kg	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* µg/Kg	RI Laboratory Results					
			19B18					
			(0-2')		(18-20)		(28')	
			11/6/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 250	250	< 260	260
1,2,4-Trichlorobenzene			< 250	250	< 250	250	< 260	260
1,2-Dichlorobenzene			< 250	250	< 250	250	< 260	260
1,2-Diphenylhydrazine			< 250	250	< 250	250	< 260	260
1,3-Dichlorobenzene			< 250	250	< 250	250	< 260	260
1,4-Dichlorobenzene			< 250	250	< 250	250	< 260	260
2,4,5-Trichlorophenol			< 250	250	< 250	250	< 260	260
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 190	190
2,4-Dichlorophenol			< 180	180	< 180	180	< 190	190
2,4-Dimethylphenol			< 250	250	< 250	250	< 260	260
2,4-Dinitrophenol			< 250	250	< 250	250	< 260	260
2,4-Dinitrotoluene			< 180	180	< 180	180	< 190	190
2,6-Dinitrotoluene			< 180	180	< 180	180	< 190	190
2-Chloronaphthalene			< 250	250	< 250	250	< 260	260
2-Chlorophenol			< 250	250	< 250	250	< 260	260
2-Methylnaphthalene			< 250	250	2,400	250	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 250	250	< 260	260
2-Nitroaniline			< 250	250	< 250	250	< 260	260
2-Nitrophenol			< 250	250	< 250	250	< 260	260
3&4-Methylphenol (m&p-creso	330	100,000	< 250	250	< 250	250	< 260	260
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 190	190
3-Nitroaniline			< 360	360	< 360	360	< 380	380
4,6-Dinitro-2-methylphenol			< 210	210	< 220	220	< 230	230
4-Bromophenyl phenyl ether			< 250	250	< 250	250	< 260	260
4-Chloro-3-methylphenol			< 250	250	< 250	250	< 260	260
4-Chloroaniline			< 280	280	< 290	290	< 300	300
4-Chlorophenyl phenyl ether			< 250	250	< 250	250	< 260	260
4-Nitroaniline			< 360	360	< 360	360	< 380	380
4-Nitrophenol			< 360	360	< 360	360	< 380	380
Acenaphthene	20,000	100,000	< 250	250	< 250	250	< 260	260
Acenaphthylene	100,000	100,000	< 250	250	< 250	250	< 260	260
Acetophenone			< 250	250	< 250	250	< 260	260
Aniline			< 280	280	< 290	290	< 300	300
Anthracene	100,000	100,000	< 250	250	< 250	250	< 260	260
Benz(a)anthracene	1,000	1,000	< 250	250	< 250	250	< 260	260
Benztidine			< 360	360	< 360	360	< 380	380
Benzo(a)pyrene	1,000	1,000	< 180	180	< 180	180	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 250	250	< 250	250	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 250	250	< 250	250	< 260	260
Benzo(k)fluoranthene	800	3,900	< 250	250	< 250	250	< 260	260
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1900	1,900
Benzyl butyl phthalate			< 250	250	< 250	250	< 260	260
Bis(2-chloroethoxy)methane			< 250	250	< 250	250	< 260	260
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 190	190
Bis(2-chloroisopropyl)ether			< 250	250	< 250	250	< 260	260
Bis(2-ethylhexyl)phthalate			< 250	250	< 250	250	< 260	260
Carbazole			< 180	180	< 180	180	< 190	190
Chrysene	1,000	3,900	< 250	250	< 250	250	< 260	260
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 190	190
Dibenzofuran	7,000	59,000	< 250	250	< 250	250	< 260	260
Diethyl phthalate			< 250	250	< 250	250	< 260	260
Dimethylphthalate			< 250	250	< 250	250	< 260	260
Di-n-butylphthalate			< 250	250	< 250	250	< 260	260
Di-n-octylphthalate			< 250	250	< 250	250	< 260	260
Fluoranthene	100,000	100,000	< 250	250	200	250	< 260	260
Fluorene	30,000	100,000	< 250	250	< 250	250	< 260	260
Hexachlorobenzene			< 180	180	< 180	180	< 190	190
Hexachlorobutadiene			< 250	250	< 250	250	< 260	260
Hexachlorocyclopentadiene			< 250	250	< 250	250	< 260	260
Hexachloroethane			< 180	180	< 180	180	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 250	250	< 250	250	< 260	260
Isophorone			< 180	180	< 180	180	< 190	190
Naphthalene	12,000	100,000	< 250	250	1,300	250	< 260	260
Nitrobenzene			< 180	180	< 180	180	< 190	190
N-Nitrosodimethylamine			< 250	250	< 250	250	< 260	260
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 190	190
N-Nitrosodiphenylamine			< 250	250	< 250	250	< 260	260
Pentachloronitrobenzene			< 250	250	< 250	250	< 260	260
Pentachlorophenol	800	6,700	< 210	210	< 220	220	< 230	230
Phenanthrene	100,000	100,000	< 250	250	260	250	< 260	260
Phenol	330	100,000	< 250	250	< 250	250	< 260	260
Pyrene	100,000	100,000	< 250	250	170	250	< 260	260
Pyridine			< 250	250	< 250	250	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 5
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Pesticides PCBs

				RI Laboratory Results																							
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	19B1				19B2				19B3				19B4				19B5				19B6				
			(0-2')		(20-22')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		
			11/7/2019		11/7/2019		11/6/2019		11/6/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		
			µg/Kg		µg/Kg		µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	µg/Kg	RL	
Pesticides	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
	4,4'-DDD	3.3	13,000	<2.1	2.1	<2.2	2.2	<2.0	2.0	<2.2	2.2	6.4	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2	<2.1	2.1	<2.1	2.1	<2.2	2.2	<2.2	2.2
	4,4'-DDE	3.3	8,900	<2.1	2.1	<2.2	2.2	<2.0	2.0	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2	<2.1	2.1	<2.1	2.1	<2.2	2.2	<2.2	2.2
	4,4'-DDT	3.3	7,900	<2.1	2.1	<2.2	2.2	8.1	3.3	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2	<2.1	2.1	<2.1	2.1	<2.2	2.2	<2.2	2.2
	a-BHC	20	480	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	a-Chlordane			<3.5	3.5	<3.7	3.7	<3.4	3.4	<3.7	3.7	<3.7	3.7	<3.6	3.6	16	3.5	<3.6	3.6	39	3.5	<3.6	3.6	<3.7	3.7	<3.6	3.6
	Aldrin	5	97	<3.5	3.5	<3.7	3.7	<3.4	3.4	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.5	3.5	<3.6	3.6	<3.5	3.5	<3.6	3.6	<3.7	3.7	<3.6	3.6
	b-BHC	36	360	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Chlordane	94	4,200	<35	35	<37	37	<34	34	<37	37	<37	37	<36	36	76	35	<36	36	210	35	<36	36	<37	37	<36	36
	d-BHC	40	100,000	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Dieldrin	5	200	<3.5	3.5	<3.7	3.7	<3.4	3.4	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.5	3.5	<3.6	3.6	<3.5	3.5	<3.6	3.6	<3.7	3.7	<3.6	3.6
	Endosulfan I	2,400	24,000	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Endosulfan II	2,400	24,000	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Endosulfan sulfate	2,400	24,000	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Endrin	14	11,000	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Endrin aldehyde			<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Endrin ketone			<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	g-BHC			<1.4	1.4	<1.5	1.5	<1.4	1.4	<1.5	1.5	<1.5	1.5	<1.4	1.4	<1.4	1.4	<1.5	1.5	<1.4	1.4	<1.4	1.4	<1.5	1.5	<1.5	1.5
	g-Chlordane			<3.5	3.5	<3.7	3.7	<3.4	3.4	<3.7	3.7	<3.7	3.7	<3.6	3.6	10	3.5	<3.6	3.6	27	3.5	<3.6	3.6	<3.7	3.7	<3.6	3.6
	Heptachlor	42	2,100	<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Heptachlor epoxide			<7.1	7.1	<7.4	7.4	<6.8	6.8	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.0	7.0	<7.3	7.3	<6.9	6.9	<7.1	7.1	<7.3	7.3	<7.3	7.3
	Methoxychlor			<35	35	<37	37	<34	34	<37	37	<37	37	<36	36	<35	35	<36	36	<35	35	<36	36	<37	37	<36	36
Toxaphene			<140	140	<150	150	<140	140	<150	150	<150	150	<140	140	<140	140	<150	150	<140	140	<140	140	<150	150	<150	150	
PCBs	PCB-1016	100	1,000	<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
	PCB-1221	100	1,000	<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
	PCB-1232	100	1,000	<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
	PCB-1242	100	1,000	<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
	PCB-1248	100	1,000	<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
	PCB-1254	100	1,000	<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
	PCB-1260	100	1,000	<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
	PCB-1262	100		<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73
PCB-1268	100		<71	71	<74	74	<68	68	<73	73	<74	74	<72	72	<70	70	<73	73	<69	69	<71	71	<73	73	<73	73	

Notes:
*- 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
RL - Reporting Limit

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

Table 5
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Pesticides PCBs

				RI Laboratory Results																							
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	19B7				19B8				19B9				19B10				19B11				19B12				
			(0-2')		(18-20')		(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20')		(0-2')		(18-20')		
			11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/22/2019		11/22/2019		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
Pesticides	4,4'-DDD	3.3	13,000	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.2	2.2	< 3.3	3.3	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4'-DDE	3.3	8,900	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.2	2.2	< 3.3	3.3	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4'-DDT	3.3	7,900	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.2	2.2	< 3.3	3.3	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	a-BHC	20	480	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	a-Chlordane			< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	Aldrin	5	97	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	b-BHC	36	360	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Chlordane	94	4,200	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	d-BHC	40	100,000	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Dieldrin	5	200	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	Endosulfan I	2,400	24,000	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Endosulfan II	2,400	24,000	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Endosulfan sulfate	2,400	24,000	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Endrin	14	11,000	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Endrin aldehyde			< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Endrin ketone			< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	g-BHC			< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5
	g-Chlordane			< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	Heptachlor	42	2,100	< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Heptachlor epoxide			< 7.4	7.4	< 7.3	7.3	< 7.3	7.3	< 7.1	7.1	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4	< 7.4	7.4
	Methoxychlor			< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	Toxaphene			< 150	150	< 150	150	< 150	150	< 140	140	< 140	140	< 150	150	< 150	150	< 150	150	< 150	150	< 150	150	< 150	150	< 150	150
PCBs	PCB-1016	100	1,000	< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1221	100	1,000	< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1232	100	1,000	< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1242	100	1,000	< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1248	100	1,000	< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1254	100	1,000	< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	190	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1260	100	1,000	< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1262	100		< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74
	PCB-1268	100		< 74	74	< 73	73	< 73	73	< 71	71	< 71	71	< 73	73	< 74	74	< 73	73	< 74	74	< 74	74	< 74	74	< 74	74

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

Table 5
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Pesticides PCBs

				RI Laboratory Results																							
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	19B13				19B14				19B15				19B16				19B17				19B18				
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		
			11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/7/2019		11/7/2019		11/6/2019		11/6/2019		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg
Pesticides	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
	4,4'-DDD	3.3	13,000	<2.1	2.1	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2	<2.2	2.2
	4,4'-DDE	3.3	8,900	<2.1	2.1	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2	<2.2	2.2
	4,4'-DDT	3.3	7,900	<5.0	5.0	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<3.0	3.0	<2.3	2.3	<2.2	2.2	<2.2	2.2	<3.3	3.3	<2.2	2.2	<2.2	2.2
	a-BHC	20	480	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	α-Chlordane			<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6	<3.9	3.9	<3.6	3.6	<3.7	3.7	<3.6	3.6	<3.6	3.6
	Aldrin	5	97	<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.6	3.6	<5.0	5.0	<3.9	3.9	<3.6	3.6	<3.7	3.7	<3.6	3.6	<3.6	3.6
	β-BHC	36	360	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	Chlordane	94	4,200	<36	36	<37	37	<37	37	<37	37	<37	37	<36	36	<36	36	<39	39	<36	36	<37	37	<36	36	<36	36
	δ-BHC	40	100,000	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	Dieldrin	5	200	<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.6	3.6	<4.0	4.0	<3.9	3.9	<3.6	3.6	<3.7	3.7	<3.6	3.6	<3.6	3.6
	Endosulfan I	2,400	24,000	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	Endosulfan II	2,400	24,000	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	Endosulfan sulfate	2,400	24,000	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	Endrin	14	11,000	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<14	14	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	Endrin aldehyde			<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<9.0	9.0	<7.2	7.2	<7.3	7.3	<7.8	7.8	3,200	360	<7.4	7.4	<14	14	<7.2	7.2
	Endrin ketone			<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	g-BHC			<1.4	1.4	<1.5	1.5	<1.5	1.5	<1.5	1.5	<1.5	1.5	<1.4	1.4	<1.5	1.5	<1.6	1.6	<1.4	1.4	<1.5	1.5	<1.4	1.4	<1.4	1.4
	γ-Chlordane			<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6	<3.9	3.9	<3.6	3.6	<3.7	3.7	<3.6	3.6	<3.6	3.6
	Heptachlor	42	2,100	<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<9.0	9.0	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
	Heptachlor epoxide			<7.1	7.1	<7.4	7.4	<7.5	7.5	<7.3	7.3	<7.4	7.4	<7.2	7.2	<7.3	7.3	<7.8	7.8	<7.2	7.2	<7.4	7.4	<7.1	7.1	<7.2	7.2
Methoxychlor			<36	36	<37	37	<37	37	<37	37	<37	37	<36	36	<36	36	<39	39	<36	36	<37	37	<36	36	<36	36	
Toxaphene			<140	140	<150	150	<150	150	<150	150	<150	150	<140	140	<150	150	<160	160	<140	140	<150	150	<140	140	<140	140	
PCBs	PCB-1016	100	1,000	<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1221	100	1,000	<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1232	100	1,000	<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1242	100	1,000	<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1248	100	1,000	<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1254	100	1,000	87	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1260	100	1,000	<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1262	100		<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72
	PCB-1268	100		<71	71	<74	74	<75	75	<73	73	<74	74	<72	72	<73	73	<78	78	<72	72	<74	74	<71	71	<72	72

Notes:
 *- 6 NYCRR Part 375.6 Remedial Program Soil Cleanup Objectives
 RL - Reporting Limit
 Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
 Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

Table 6a
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Metals

			RI Laboratory Results																							
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	19B1				19B2				19B3				19B4				19B5				19B6			
			(0-2')		(20-22')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/7/2019		11/7/2019		11/6/2019		11/6/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			2,050	34	6,320	34	6,250	33	5,740	33	8,460	39	5,920	37	9,350	32	6,910	37	8,750	34	4,380	34	10,400	34	5,580	39
Antimony			< 3.4	3.4	< 3.4	3.4	< 3.3	3.3	< 3.3	3.3	< 3.9	3.9	< 3.7	3.7	< 3.2	3.2	< 3.7	3.7	< 3.4	3.4	< 3.4	3.4	< 3.4	3.4	< 3.9	3.9
Arsenic	13	16	3.9	0.69	1.59	0.69	2.05	0.66	1.16	0.67	2.52	0.78	2.31	0.73	5.1	0.64	1.72	0.74	3.33	0.68	0.83	0.68	6.43	0.68	1.86	0.77
Barium	350	400	9.7	0.7	35.2	0.7	47.2	0.7	36.8	0.7	67.8	0.8	38.9	0.7	178	0.6	37.1	0.7	185	0.7	37.1	0.7	220	0.7	42.9	0.8
Beryllium	7.2	72	0.21	0.28	0.36	0.27	0.38	0.26	0.31	0.27	0.37	0.31	0.33	0.29	0.42	0.26	0.39	0.30	0.46	0.27	0.23	0.27	0.46	0.27	0.28	0.31
Cadmium	2.5	4.3	0.4	0.34	0.66	0.34	0.78	0.33	0.51	0.33	1.37	0.39	0.62	0.37	1.36	0.32	0.8	0.37	1.56	0.34	0.43	0.34	0.98	0.34	0.63	0.39
Calcium			14,600	34	7,500	34	7,000	33	7,680	33	4,890	39	2,260	37	36,900	32	1,480	37	5,050	34	943	34	17,200	34	1,470	39
Chromium	30	180	5.47	0.34	16.3	0.34	16.7	0.33	14.9	0.33	19.8	0.39	15.8	0.37	20.5	0.32	20.9	0.37	25.1	0.34	11.5	0.34	20.4	0.34	16.1	0.39
Cobalt			2.17	0.34	5.89	0.34	6.61	0.33	5.51	0.33	7.22	0.39	5.62	0.37	7.3	0.32	7.01	0.37	8.35	0.34	4.34	0.34	8.19	0.34	5.88	0.39
Copper	50	270	4.5	0.7	11.9	0.7	21.8	0.7	14	0.7	57.7	0.8	12.6	0.7	75.1	0.6	15.5	0.7	181	6.8	10.1	0.7	92.1	0.7	12.6	0.8
Iron			7,670	34	17,500	34	18,400	33	13,300	33	18,100	39	16,800	37	21,800	32	21,700	37	29,400	34	10,300	34	18,700	34	17,700	39
Lead	63	400	4.2	0.7	4.4	0.7	20.9	0.7	3.7	0.7	145	0.8	4.1	0.7	366	0.6	5.3	0.7	210	0.7	2.9	0.7	191	0.7	3.4	0.8
Magnesium			8,180	34	5,090	34	2,500	33	4,990	33	2,590	39	2,130	37	8,670	32	2,080	37	2,970	34	1,670	34	3,880	34	2,000	3.9
Manganese	1,600	2,000	66.7	0.34	251	3.4	282	3.3	183	3.3	212	3.9	230	3.7	387	3.2	274	3.7	630	3.4	348	3.4	379	3.4	277	3.9
Mercury	0.18	0.81	< 0.03	0.03	< 0.03	0.03	0.2	0.07	< 0.03	0.03	0.19	0.07	< 0.03	0.03	0.17	0.06	< 0.03	0.03	0.12	0.07	< 0.03	0.03	0.35	0.07	< 0.03	0.03
Nickel	30	310	2.38	0.34	9.21	0.34	14.9	0.33	9.46	0.33	16.4	0.39	9.14	0.37	15.7	0.32	11	0.37	17.3	0.34	8.56	0.34	17.2	0.34	10	0.39
Potassium			325	7	1,150	7	1,340	7	1,040	7	1,390	8	1,030	7	1,140	6	1,030	7	1,300	7	833	7	1,520	7	1,220	8
Selenium	3.9	180	< 1.4	1.4	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.6	1.6	< 1.5	1.5	< 1.3	1.3	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5
Silver	2	180	< 0.34	0.34	< 0.34	0.34	< 0.33	0.33	< 0.33	0.33	< 0.39	0.39	< 0.37	0.37	< 0.32	0.32	< 0.37	0.37	< 0.34	0.34	< 0.34	0.34	< 0.34	0.34	< 0.39	0.39
Sodium			34	7	513	7	127	7	214	7	181	8	227	7	378	6	297	7	269	7	137	7	471	7	191	8
Thallium			< 1.4	1.4	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.6	1.6	< 1.5	1.5	< 1.3	1.3	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5
Vanadium			14.3	0.34	23.4	0.34	33.9	0.33	20.3	0.33	25.5	0.39	24.4	0.37	29.9	0.32	30.6	0.37	38.9	0.34	17.6	0.34	30.1	0.34	30.6	0.39
Zinc	109	10,000	12.4	0.7	24.5	0.7	40.3	0.7	23	0.7	439	7.8	21.9	0.7	217	0.6	27.2	0.7	164	0.7	17.3	0.7	211	0.7	24.6	0.8

Notes:

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

RL - Reporting Limit

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

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

Table 6a
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Metals

			RI Laboratory Results																							
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	19B7				19B8				19B9				19B10				19B11				19B12			
			(0-2')		(18-20')		(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20')		(0-2')		(18-20')	
			11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/22/2019		11/22/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			6,460	34	4,210	33	12,200	33	6,340	34	9,840	35	5,480	33	6,850	35	4,540	34	9,100	35	6,900	35	8,690	36	9,920	34
Antimony			< 3.4	3.4	< 3.3	3.3	< 3.3	3.3	< 3.4	3.4	< 3.5	3.5	< 3.3	3.3	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5	< 3.5	3.5	< 3.6	3.6	< 3.4	3.4
Arsenic	13	16	4.85	0.68	< 0.66	0.66	2.47	0.67	1.49	0.67	2.03	0.71	1.71	0.67	5.16	0.69	0.74	0.68	5.68	0.69	2.72	0.69	6.09	0.73	1.1	0.68
Barium	350	400	168	0.7	20	0.7	257	0.7	37.3	0.7	56.2	0.7	43.2	0.7	223	0.7	29.5	0.7	198	0.7	45.8	0.7	399	0.7	59.5	0.7
Beryllium	7.2	72	0.39	0.27	0.29	0.26	0.32	0.27	0.37	0.27	0.5	0.28	0.36	0.27	0.36	0.28	< 0.27	0.27	0.5	0.28	0.42	0.28	0.41	0.29	0.53	0.27
Cadmium	2.5	4.3	0.98	0.34	0.37	0.33	1.07	0.33	0.59	0.34	0.99	0.35	0.64	0.33	1.73	0.35	0.46	0.34	2.59	0.35	0.89	0.35	1.32	0.36	< 0.34	0.34
Calcium			44,400	34	850	3.3	40,900	33	7,610	3.4	2,130	3.5	8,310	3.3	12,500	35	1,690	3.4	5,610	3.5	5,280	3.5	18,100	36	31,300	34
Chromium	30	180	12.5	0.34	14.5	0.33	14.4	0.33	20.6	0.34	26.6	0.35	14.7	0.33	22	0.35	10.7	0.34	24	0.35	21.8	0.35	20.6	0.36	17.6	0.34
Cobalt			5.56	0.34	4.79	0.33	4.79	0.33	7.22	0.34	10.6	0.35	5.73	0.33	6.99	0.35	4.91	0.34	8.29	0.35	8.01	0.35	12.5	0.36	7.34	0.34
Copper	50	270	111	0.7	10	0.7	305	6.7	11.8	0.7	50.2	0.7	11.3	0.7	102	0.7	10.4	0.7	122	0.7	12	0.7	72.8	0.7	13.6	0.7
Iron			11,500	34	8,650	33	9,400	33	16,200	34	25,600	35	15,600	33	19,600	35	12,000	34	24,000	35	24,600	35	18,400	36	13,400	34
Lead	63	400	161	0.7	2.1	0.7	425	0.7	4.2	0.7	29.9	0.7	3.9	0.7	381	0.7	2.7	0.7	307	0.7	4.9	0.7	1,150	7.3	3.6	0.7
Magnesium			22,200	34	1,730	3.3	9,570	33	4,930	3.4	2,780	3.5	4,140	3.3	3,020	3.5	1,840	3.4	3,690	3.5	4,520	3.5	2,770	3.6	16,500	34
Manganese	1,600	2,000	160	3.4	79.6	0.33	255	3.3	205	3.4	467	3.5	259	3.3	289	3.5	216	3.4	436	3.5	352	3.5	611	3.6	221	3.4
Mercury	0.18	0.81	0.18	0.03	< 0.03	0.03	0.04	0.03	< 0.03	0.03	0.04	0.03	< 0.03	0.03	0.78	0.14	< 0.03	0.03	< 0.13	0.13	< 0.07	0.07	0.52	0.07	< 0.07	0.07
Nickel	30	310	14.5	0.34	8.89	0.33	10.7	0.33	13.2	0.34	16.9	0.35	9.04	0.33	16.7	0.35	8.78	0.34	17.3	0.35	12.8	0.35	13.7	0.36	12.4	0.34
Potassium			1,280	7	543	7	874	7	1,400	7	1,100	7	952	7	1,520	7	769	7	925	7	1,250	7	1,080	7	1,930	7
Selenium	3.9	180	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4
Silver	2	180	< 0.34	0.34	< 0.33	0.33	< 0.52	0.52	< 0.34	0.34	< 0.35	0.35	< 0.33	0.33	< 0.35	0.35	< 0.34	0.34	< 0.35	0.35	< 0.35	0.35	< 0.36	0.36	< 0.34	0.34
Sodium			270	7	127	7	796	7	220	7	199	7	158	7	190	7	178	7	198	7	154	7	300	7	394	7
Thallium			< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4
Vanadium			34.1	0.34	15.1	0.33	20.8	0.33	29.2	0.34	37.4	0.35	23.4	0.33	26.5	0.35	18.7	0.34	39.5	0.35	31.8	0.35	28.3	0.36	22.2	0.34
Zinc	109	10,000	193	0.7	17.8	0.7	446	6.7	23.7	0.7	50	0.7	23.1	0.7	394	6.9	19.5	0.7	536	6.9	31.2	0.7	368	0.7	31.9	0.7

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guid

Bold/highlighted- Indicated exceedance of the NYSDEC RRSO Guid

Table 6a
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples
Metals

			RI Laboratory Results																							
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	19B13				19B14				19B15				19B16				19B17				19B18			
			(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
			11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/7/2019		11/7/2019		11/6/2019		11/6/2019	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			5,950	35	3,390	37	9,000	36	5,430	36	10,800	37	5,510	36	7,620	36	4,720	36	7,170	33	6,130	34	3,830	32	5,410	35
Antimony			< 3.5	3.5	< 3.7	3.7	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 3.6	3.6	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5
Arsenic	13	16	6.76	0.71	< 0.74	0.74	4.29	0.72	1.45	0.71	16.3	0.75	1.21	0.71	2.97	0.71	0.78	0.73	2.11	0.65	1.82	0.69	3.66	0.63	1.21	0.70
Barium	350	400	94.8	0.7	24	0.7	113	0.7	30.9	0.7	75.2	0.7	38.4	0.7	71.6	0.7	29.1	0.7	73.6	0.7	41.8	0.7	16	0.6	23.1	0.7
Beryllium	7.2	72	0.29	0.28	0.17	0.30	0.41	0.29	0.23	0.28	0.45	0.30	0.29	0.29	0.3	0.29	0.22	0.29	0.28	0.26	0.27	0.27	0.3	0.25	0.29	0.28
Cadmium	2.5	4.3	1.94	0.35	< 0.37	0.37	0.48	0.36	0.37	0.36	0.81	0.37	0.39	0.36	0.6	0.36	< 0.36	0.36	0.71	0.33	0.62	0.34	0.35	0.32	0.6	0.35
Calcium			7,060	3.5	10,100	3.7	4,130	3.6	2,110	3.6	8,130	3.7	5,450	3.6	3,490	3.6	8,120	3.6	32,400	33	4,310	3.4	11,000	32	2,530	3.5
Chromium	30	180	15.1	0.35	6.85	0.37	20.2	0.36	13	0.36	20.4	0.37	16.3	0.36	17.9	0.36	8.6	0.36	16	0.33	15.2	0.34	8.24	0.32	18.2	0.35
Cobalt			6.83	0.35	3.81	0.37	8.7	0.36	5.41	0.36	11.8	0.37	5.46	0.36	5.96	0.36	4.64	0.36	6.86	0.33	6.39	0.34	3.37	0.32	5.65	0.35
Copper	50	270	38.2	0.7	9.1	0.7	46.1	0.7	14.3	0.7	80.3	0.7	13.2	0.7	42.9	0.7	12.8	0.7	28.6	0.7	14.2	0.7	6.6	0.6	16.8	0.7
Iron			14,800	35	8,380	3.7	16,000	36	14,800	36	25,000	37	15,700	36	14,200	36	9,760	36	15,800	33	18,200	34	8,100	32	14,800	35
Lead	63	400	439	0.7	2.7	0.7	245	0.7	3.8	0.7	146	0.7	4.1	0.7	225	0.7	2.5	0.7	597	0.7	3.7	0.7	6.6	0.6	5.5	0.7
Magnesium			2,110	3.5	3,850	3.7	2,510	3.6	2,700	3.6	2,710	3.7	3,990	3.6	2,080	3.6	5,040	3.6	5,020	33	3,270	3.4	6,300	32	2,440	3.5
Manganese	1,600	2,000	331	3.5	175	3.7	300	3.6	149	3.6	634	3.7	167	3.6	234	3.6	259	3.6	240	3.3	262	3.4	106	0.32	236	3.5
Mercury	0.18	0.81	0.35	0.07	< 0.07	0.07	0.77	0.07	< 0.07	0.07	0.11	0.07	< 0.07	0.07	0.58	0.07	< 0.07	0.07	0.1	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03
Nickel	30	310	12.5	0.35	7.5	0.37	14.4	0.36	12.4	0.36	20.1	0.37	9.15	0.36	10.7	0.36	9.44	0.36	12.7	0.33	9.4	0.34	3.42	0.32	8.97	0.35
Potassium			873	7	580	7	1,070	7	884	7	892	7	910	7	703	7	835	7	2,220	7	1,030	7	419	6	734	7
Selenium	3.9	180	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4
Silver	2	180	< 0.35	0.35	< 0.37	0.37	< 0.36	0.36	< 0.36	0.36	< 0.37	0.37	< 0.36	0.36	< 0.36	0.36	< 0.36	0.36	< 0.33	0.33	< 0.34	0.34	< 0.32	0.32	< 0.35	0.35
Sodium			427	7	161	7	301	7	261	7	457	7	142	7	162	7	241	7	202	7	275	7	31	6	317	7
Thallium			< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4
Vanadium			24.7	0.35	15.2	0.37	31.9	0.36	20.3	0.36	50.1	0.37	25.7	0.36	23.3	0.36	15	0.36	22.4	0.33	28.4	0.34	15.1	0.32	25	0.35
Zinc	109	10,000	540	7.1	16.4	0.7	119	0.7	21.5	0.7	104	0.7	23	0.7	139	0.7	19.2	0.7	99.2	0.7	22.4	0.7	11.9	0.6	20.7	0.7

Notes:
* - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Gui
Bold/highlighted- Indicated exceedance of the NYSDEC RRSO Gui

Table 6b
69-02 Queens Blvd.
Queens, New York
RI Laboratory Results - Soil Samples - Lead Delineation
Total and TCLP Lead

				RI Laboratory Report																							
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	TCLP Regulatory Limit*	2PB1								2PB2								2PB3							
				(0-4')		(4-8')		(8-12')		(12-16')		(0-4')		(4-8')		(8-12')		(12-16')		(0-4')		(4-8')		(8-12')		(12-16')	
				11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019	
				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
				mg/Kg		mg/Kg		mg/L		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Total Lead	63	400		166	0.7	33.7	0.6	304	0.7	2.5	0.6	19.9	0.7	1,270	6.7	221	0.7	4.9	0.7	181	0.7	142	0.7	1,540	6.8	50	0.7
TCLP Lead			5	0.32	0.10	0.18	0.10	0.41	0.10	< 0.10	0.10	< 0.10	0.10	6.39	0.10	0.28	0.10	< 0.10	0.10	0.03	0.10	0.19	0.10	2.58	0.10	0.12	0.10

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	TCLP Regulatory Limit*	RI Laboratory Report																							
				3PB1								3PB2								3PB3							
				(0-4')		(4-8')		(8-12')		(12-16')		(0-4')		(4-8')		(8-12')		(12-16')		(0-4')		(4-8')		(8-12')		(12-16')	
				11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019	
				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
	mg/Kg	mg/Kg	mg/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
Total Lead	63	400		102	0.7	5.8	0.6	181	0.7	6.9	0.6	6.9	0.6	15.5	0.7	48.4	0.7	4.2	0.7	1,160	5.6	34.4	0.7	19.7	0.8	9.8	0.7
TCLP Lead			5	0.24	0.10	< 0.10	0.10	0.33	0.10	0.01	0.10	< 0.10	0.10	0.01	0.10	< 0.10	0.10	< 0.10	0.10	< 0.10	0.10	0.05	0.10	< 0.10	0.10	< 0.10	0.10

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

Table 7
69-02 Queens Blvd.
Brooklyn, New York
RI Laboratory Results - Soil Samples
Emerging Contaminants

Compound	RI Laboratory Results																							
	19B1				19B2				19B3				19B4				19B5				19B6			
	(0-2')		(20-22')		(0-2')		(9-11')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')	
	11/7/2019		11/7/2019		11/6/2019		11/6/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019		11/7/2019	
	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorobutanoic Acid (PFBA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluoropentanoic Acid (PFPeA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorobutanesulfonic Acid (PFBS)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorohexanoic Acid (PFHxA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluoroheptanoic Acid (PFHpA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorooctanoic Acid (PFOA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorononanoic Acid (PFNA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorooctanesulfonic Acid (PFOS)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	0.00122	0.0011	ND	0.001	ND	0.001	ND	0.0011	0.00134	0.001	ND	0.001	0.00137	0.0011	ND	0.001
Perfluorodecanoic Acid (PFDA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluoroundecanoic Acid (PFUnA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorodecanesulfonic Acid (PFDS)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorooctanesulfonamide (FOSA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorododecanoic Acid (PFDoA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorotridecanoic Acid (PFTriDA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Perfluorotetradecanoic Acid (PFTA)	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001	ND	0.001	ND	0.0011	ND	0.001
Combined PFOA and PFOS	ND		ND		ND		ND		0.00122		ND		ND		ND		0.00134		ND		0.00137		ND	
Combined Total Detections	0		0		0		0		0.00122		0		0		0		0.00134		0		0.00137		0	

Notes:

DL- Detection Limit

J- The value is estimated.

ND- Not Detected

The USEPA Health Advisory Level for drinking water is 70 ng/L (ppt) for combined detections of PFOA and PFOS

Table 7
69-02 Queens Blvd.
Brooklyn, New York
RI Laboratory Results - Soil Samples
Emerging Contaminants

Compound	RI Laboratory Results																							
	19B7				19B8				19B9				19B10				19B11				19B12			
	(0-2')		(18-20')		(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20)		(0-2')		(18-20')		(0-2')		(18-20')	
	11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/6/2019		11/22/2019		11/22/2019	
	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorobutanoic Acid (PFBA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluoropentanoic Acid (PFPeA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorobutanesulfonic Acid (PFBS)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorohexanoic Acid (PFHxA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluoroheptanoic Acid (PFHpA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorooctanoic Acid (PFOA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorononanoic Acid (PFNA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorooctanesulfonic Acid (PFOS)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorodecanoic Acid (PFDA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluoroundecanoic Acid (PFUnA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorodecanesulfonic Acid (PFDS)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorooctanesulfonamide (FOSA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorododecanoic Acid (PFDoA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorotridecanoic Acid (PFTriDA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Perfluorotetradecanoic Acid (PFTA)	ND	0.001	ND	0.0014	ND	0.0011	ND	0.001	ND	0.001	ND	0.001	ND	0.001	ND	0.0011	ND	0.0013	ND	0.001	ND	1.15	ND	1.02
Combined PFOA and PFOS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Combined Total Detections	0		0		0		0		0		0		0		0		0		0		0		0	

Notes:

DL- Detection Limit

J- The value is estimated.

ND- Not Detected

The USEPA Health Advisory Level for drinking water is 70 ng/L (ppt) for combined detections of PFOA and PFOS

Table 7
69-02 Queens Blvd.
Brooklyn, New York
RI Laboratory Results - Soil Samples
Emerging Contaminants

Compound	RI Laboratory Results																							
	19B13				19B14				19B15				19B16				19B17				19B18			
	(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20')		(0-2')		(18-20)	
	11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/21/2019		11/7/2019		11/7/2019		11/6/2019		11/6/2019	
	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorobutanoic Acid (PFBA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluoropentanoic Acid (PFPeA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorobutanesulfonic Acid (PFBS)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorohexanoic Acid (PFHxA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluoroheptanoic Acid (PFHpA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorooctanoic Acid (PFOA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorononanoic Acid (PFNA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorooctanesulfonic Acid (PFOS)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorodecanoic Acid (PFDA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluoroundecanoic Acid (PFUnA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorodecanesulfonic Acid (PFDS)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorooctanesulfonamide (FOSA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorododecanoic Acid (PFDoA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorotridecanoic Acid (PFTriDA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Perfluorotetradecanoic Acid (PFTA)	ND	0.966	ND	1.1	ND	1.06	ND	0.991	ND	1.09	ND	1.07	ND	1.09	ND	0.987	ND	0.001	ND	0.0011	ND	0.0011	ND	0.001
Combined PFOA and PFOS	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Combined Total Detections	0		0		0		0		0		0		0		0		0		0		0		0	

Notes:

DL- Detection Limit

J- The value is estimated.

ND- Not Detected

The USEPA Health Advisory Level for drinking water is 70 ng/L (ppt) for combined detections of PFOA and PFOS

Table 8
69-02 Queens Blvd, Brooklyn, New York
RI Laboratory Results - Groundwater Samples -
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	19MW1		19MW2		19MW3		19MW4		19MW5		19MW6		19MW7		19MW8		19MW9	
		12/2/2019		11/26/2019		11/26/2019		12/2/2019		11/26/2019		12/2/2019		12/2/2019		12/2/2019		11/26/2019	
		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
1,1,1,2-Tetrachloroethane	5	<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	<1.0	1.0	<5.0	5.0
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	<5.0	5.0
1,1,2,2-Tetrachloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
1,1,2-Trichloroethane	1	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1-Dichloroethane	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
1,1-Dichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
1,1-Dichloropropene	5	<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	<1.0	1.0	<5.0	5.0
1,2,3-Trichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
1,2,3-Trichloropropane	0.04	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.50	0.50
1,2,4-Trichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
1,2,4-Trimethylbenzene	5	<1.0	1.0	0.92	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	500	20
1,2-Dibromo-3-chloropropane	0.04	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50
1,2-Dibromomethane	0.0006	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.50	0.50
1,2-Dichlorobenzene		<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	<1.0	1.0	<4.7	4.7
1,2-Dichloroethane	0.6	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.50	0.50
1,2-Dichloropropane	1	<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	<1.0	1.0	<1.0	1.0
1,3,5-Trimethylbenzene	5	<1.0	1.0	0.33	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	120	5.0
1,3-Dichlorobenzene	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	<1.0	1.0	<3.0	3.0
1,3-Dichloropropane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
1,4-Dichlorobenzene		<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	<1.0	1.0	<5.0	5.0
1,4-Dioxane		<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	0.29	0.20	<0.20	0.20
2,2-Dichloropropane	5	<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	<1.0	1.0	<5.0	5.0
2-Chlorotoluene	5	<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	<1.0	1.0	<5.0	5.0
2-Hexanone (Methyl Butyl Ketone)	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	<2.5	2.5	<2.5	2.5	<13	13
2-Isopropyltoluene	5	<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	<1.0	1.0	<5.0	5.0
4-Chlorotoluene	5	<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	<1.0	1.0	<5.0	5.0
4-Methyl-2-Pentanone		<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<13	13
Acetone	50	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7	5.0	<5.0	5.0	6.3	5.0	<25	25
Acrolein	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
Acrylonitrile	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
Benzene	1	0.38	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	7.2	3.5
Bromobenzene	5	<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	<1.0	1.0	<5.0	5.0
Bromochloromethane	5	<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	<1.0	1.0	<5.0	5.0
Bromodichloromethane	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	<1.0	1.0	<1.0	1.0	<5.0	5.0
Bromoform	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	5.0	<25	25
Bromomethane	5	<5.0	5.0	0.64	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	3.2	5.0
Carbon Disulfide		<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	<1.0	1.0	<5.0	5.0
Carbon tetrachloride	5	<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	<1.0	1.0	<5.0	5.0
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	<5.0	5.0	<5.0	5.0	<5.0	5.0	<7.0	7.0
Chloromethane	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
cis-1,2-Dichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
cis-1,3-Dichloropropene	0.04	<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	<0.40	0.40	<0.50	0.50
Dibromochloromethane	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	<1.0	1.0	<1.0	1.0	<5.0	5.0
Dibromomethane	5	<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	<1.0	1.0	<5.0	5.0
Dichlorodifluoromethane	5	<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	<1.0	1.0	<5.0	5.0
Ethylbenzene	5	<1.0	1.0	0.32	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	200	20
Hexachlorobutadiene	0.5	<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	<0.50	0.50	<0.50	0.50
Isopropylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	18	5.0
m&p-Xylenes	5	0.32	1.0	0.93	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	1100	20
Methyl Ethyl Ketone (2-Butanone)	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	<2.5	2.5	<2.5	2.5	<13	13
Methyl t-butyl ether (MTBE)		1.7	1.0	<1.0	1.0	<1.0	1.0	0.89	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0
Methylene chloride	5	<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	<3.0	3.0	<5.0	5.0
Naphthalene	10	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	2.2	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	82	5.0
n-Butylbenzene	5	<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	<1.0	1.0	3.6	5.0
n-Propylbenzene	5	<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	<1.0	1.0	39	5.0
o-Xylene	5	<1.0	1.0	0.29	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	190	20
p-Isopropyltoluene	5	<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	<1.0	1.0	1.7	5.0
sec-Butylbenzene	5	<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	<1.0	1.0	3.8	5.0
Styrene	5	<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	<1.0	1.0	<5.0	5.0
Tert-butyl alcohol		190	50	<50	50	<50	50	160	50	<50	50	<50	50	<50	50	<50	50	<250	250
tert-Butylbenzene	5	<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	<1.0	1.0	<5.0	5.0
Tetrachloroethene	5	<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	<1.0	1.0	<5.0	5.0
Tetrahydrofuran (THF)																			

Notes:

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 9
69-02 Queens Blvd, Brooklyn, New York
RI Laboratory Results - Groundwater Samples -
Semi-Volatile Organic Compounds

		RI Laboratory Results																	
Compound	NYSDEC Groundwater Quality Standards	19MW1		19MW2		19MW3		19MW4		19MW5		19MW6		19MW7		19MW8		19MW9	
		12/2/2019		11/26/2019		11/26/2019		12/2/2019		11/26/2019		12/2/2019		12/2/2019		12/2/2019		11/26/2019	
		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
1,2,4,5-Tetrachlorobenzene		< 3.3	3.3	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5
1,2,4-Trichlorobenzene		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
1,2-Dichlorobenzene		< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
1,2-Diphenylhydrazine		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
1,3-Dichlorobenzene	3	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
1,4-Dichlorobenzene		< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
2,4-Dichlorophenol	5	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
2,4-Dimethylphenol	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
2,4-Dinitrophenol	5	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
2,4-Dinitrotoluene	5	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	34	1.1
2,4,5-Trichlorophenol	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
2,4,6-Trichlorophenol	1	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
2,6-Dinitrotoluene	5	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
2-Chloronaphthalene	10	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
2-Chlorophenol	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
2-Methylnaphthalene		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	20	5.5
2-Methylphenol (o-cresol)	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
2-Nitroaniline	5	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
2-Nitrophenol	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
3,4-Methylphenol (m&p-cresol)		< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	1.9	1.1
3,3'-Dichlorobenzidine	5	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
3-Nitroaniline	5	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
4,6-Dinitro-2-methylphenol	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
4-Bromophenyl phenyl ether		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
4-Chloro-3-methylphenol	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
4-Chloroaniline	5	< 3.3	3.3	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5
4-Chlorophenyl phenyl ether		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
4-Nitroaniline	5	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
4-Nitrophenol	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
Acenaphthene	20	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Acenaphthylene		< 0.47	0.47	< 0.53	0.53	< 0.50	0.50	< 0.50	0.50	< 0.54	0.54	< 0.51	0.51	< 0.50	0.50	< 0.49	0.49	< 0.55	0.55
Acetophenone		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Aniline	5	< 3.3	3.3	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5
Anthracene	50	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Benzo(a)anthracene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	0.04	0.02	< 0.02	0.02	< 0.02	0.02
Benzenidine	5	< 4.2	4.2	< 4.5	4.5	< 4.5	4.5	< 4.5	4.5	< 4.5	4.5	< 4.5	4.5	< 4.5	4.5	< 4.4	4.4	< 4.5	4.5
Benzo(a)pyrene		< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	0.02	0.02	< 0.02	0.02	< 0.02	0.02
Benzo(b)fluoranthene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	0.02	0.02	< 0.02	0.02	< 0.02	0.02
Benzo(g,h,i)perylene		< 0.47	0.47	< 0.53	0.53	< 0.50	0.50	< 0.50	0.50	< 0.54	0.54	< 0.51	0.51	< 0.50	0.50	< 0.49	0.49	< 0.55	0.55
Benzo(k)fluoranthene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	0.03	0.02	< 0.02	0.02	< 0.02	0.02
Benzoic Acid		< 24	24	< 25	25	< 25	25	< 25	25	< 25	25	< 25	25	< 25	25	< 24	24	< 25	25
Butyl benzyl phthalate	50	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Bis(2-chloroethoxy)methane	5	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Bis(2-chloroethyl)ether	1	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
Bis(2-chloroisopropyl)ether		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Bis(2-ethylhexyl)phthalate	5	< 0.94	0.94	< 1.0	1.0	< 1.0	1.0	< 0.99	0.99	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 0.97	0.97	< 1.0	1.0
Carbazole		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Chrysene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	0.04	0.02	< 0.02	0.02	< 0.02	0.02
Dibenzo(a,h)anthracene		< 0.47	0.47	< 0.53	0.53	< 0.50	0.50	< 0.50	0.50	< 0.54	0.54	< 0.51	0.51	< 0.50	0.50	< 0.49	0.49	< 0.55	0.55
Dibenzofuran		< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0
Diethylphthalate	50	< 4.7	4.7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.4	5.4	&lt							

Table 10
69-02 Queens Blvd, Brooklyn, New York
RI Laboratory Results - Groundwater Samples -
Pesticides/PCBs

		RI Laboratory Results																		
Compound	NYSDEC Groundwater Quality Standards µg/L	19MW1		19MW2		19MW3		19MW4		19MW5		19MW6		19MW7		19MW8		19MW9		
		12/2/2019		11/26/2019		11/26/2019		12/2/2019		11/26/2019		12/2/2019		12/2/2019		12/2/2019		11/26/2019		
		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	
Pesticides	4,4-DDD	0.3	< 0.005	0.005	< 0.002	0.002	< 0.002	0.002	< 0.005	0.005	< 0.002	0.002	< 0.020	0.020	< 0.005	0.005	< 0.005	0.005	< 0.002	0.002
	4,4-DDE	0.2	< 0.005	0.005	< 0.002	0.002	< 0.002	0.002	< 0.005	0.005	< 0.002	0.002	< 0.020	0.020	< 0.005	0.005	< 0.005	0.005	< 0.002	0.002
	4,4-DDT	0.2	< 0.005	0.005	< 0.002	0.002	< 0.002	0.002	< 0.010	0.010	< 0.002	0.002	< 0.020	0.020	< 0.005	0.005	< 0.005	0.005	< 0.002	0.002
	a-BHC	0.01	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.020	0.020	< 0.005	0.005	< 0.005	0.005	< 0.006	0.006
	a-chlordane		< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.010	0.010	< 0.10	0.10	< 0.011	0.011	< 0.010	0.010	< 0.012	0.012
	Alachlor	0.5	< 0.080	0.080	< 0.080	0.080	< 0.081	0.081	< 0.080	0.080	< 0.078	0.078	< 0.051	0.051	< 0.079	0.079	< 0.075	0.075	< 0.087	0.087
	Aldrin		< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.020	0.020	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002
	b-BHC	0.04	< 0.010	0.010	< 0.005	0.005	< 0.005	0.005	< 0.020	0.020	< 0.005	0.005	< 0.020	0.020	< 0.020	0.020	< 0.005	0.005	< 0.006	0.006
	Chlordane	0.05	< 0.021	0.021	< 0.021	0.021	< 0.022	0.022	< 0.021	0.021	< 0.021	0.021	< 0.20	0.20	< 0.021	0.021	< 0.050	0.050	< 0.023	0.023
	d-BHC	0.04	< 0.010	0.010	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.040	0.040	< 0.020	0.020	< 0.005	0.005	< 0.005	0.005	< 0.006	0.006
	Dieldrin	0.004	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.020	0.020	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002
	Endosulfan I		< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.010	0.010	< 0.051	0.051	< 0.011	0.011	< 0.010	0.010	< 0.012	0.012
	Endosulfan II		< 0.011	0.011	0.015	0.010	< 0.011	0.011	< 0.011	0.011	< 0.010	0.010	< 0.051	0.051	< 0.011	0.011	< 0.010	0.010	< 0.10	0.10
	Endosulfan Sulfate		< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.010	0.010	< 0.051	0.051	< 0.011	0.011	< 0.010	0.010	< 0.012	0.012
	Endrin		< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.051	0.051	< 0.005	0.005	< 0.010	0.010	< 0.006	0.006
	Endrin aldehyde	5	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.010	0.010	< 0.10	0.10	< 0.011	0.011	< 0.010	0.010	< 0.012	0.012
	Endrin ketone	5	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.010	0.010	< 0.10	0.10	< 0.011	0.011	< 0.010	0.010	< 0.012	0.012
	gamma-BHC	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.020	0.020	< 0.005	0.005	< 0.005	0.005	< 0.006	0.006
	g-chlordane		< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.010	0.010	< 0.020	0.020	< 0.011	0.011	< 0.010	0.010	< 0.012	0.012
Heptachlor	0.04	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.051	0.051	< 0.005	0.005	< 0.010	0.010	< 0.006	0.006	
Heptachlor epoxide	0.03	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.051	0.051	< 0.005	0.005	< 0.010	0.010	< 0.006	0.006	
Methoxychlor	35	< 0.11	0.11	< 0.11	0.11	< 0.11	0.11	< 0.11	0.11	< 0.10	0.10	< 1.0	1.0	< 0.11	0.11	< 0.10	0.10	< 0.12	0.12	
Toxaphene	0.06	< 0.21	0.21	< 0.21	0.21	< 0.22	0.22	< 0.21	0.21	< 0.21	0.21	< 2.0	2.0	< 0.21	0.21	< 0.20	0.20	< 0.23	0.23	
PCBs	PCB-1016	0.09	< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1221	0.09	< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1232	0.09	< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1242	0.09	< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1248	0.09	< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1254	0.09	< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1260	0.09	< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1262		< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058
	PCB-1268		< 0.054	0.054	< 0.053	0.053	< 0.054	0.054	< 0.053	0.053	< 0.052	0.052	< 0.051	0.051	< 0.053	0.053	< 0.050	0.050	< 0.058	0.058

Notes:

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 11
69-02 Queens Blvd, Brooklyn, New York
RI Laboratory Results - Groundwater Samples -
Total Metals

		RI Laboratory Results																	
Compound	NYSDEC Groundwater Quality Standards	19MW1		19MW2		19MW3		19MW4		19MW5		19MW6		19MW7		19MW8		19MW9	
		12/2/2019		11/26/2019		11/26/2019		12/2/2019		11/26/2019		12/2/2019		12/2/2019		12/2/2019		11/26/2019	
		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
Aluminum	0.1	1.42	0.020	10.6	0.020	0.035	0.020	1.53	0.020	0.177	0.020	22.7	0.020	0.121	0.020	0.692	0.020	1.14	0.020
Antimony	0.003	< 0.0030	0.0030	< 0.0030	0.0030	< 0.0030	0.0030	< 0.0030	0.0030	< 0.0030	0.0030	0.0044	0.0030	< 0.0030	0.0030	< 0.0030	0.0030	< 0.0030	0.0030
Arsenic	0.025	0.004	0.004	< 0.004	0.004	< 0.004	0.004	0.002	0.004	< 0.004	0.004	0.002	0.004	0.002	0.004	< 0.004	0.004	< 0.004	0.004
Barium	1	0.106	0.010	0.181	0.010	0.063	0.010	0.086	0.010	0.139	0.010	0.39	0.010	0.181	0.010	0.036	0.010	0.286	0.010
Beryllium	0.003	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cadmium	0.005	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	0.001	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Calcium		247	0.10	79.3	0.010	96.2	0.010	103	0.010	135	0.10	285	0.10	181	0.10	337	0.10	133	0.10
Chromium	0.05	0.003	0.001	0.023	0.001	0.001	0.001	0.003	0.001	< 0.001	0.001	0.059	0.001	< 0.001	0.001	< 0.001	0.001	0.007	0.001
Cobalt		0.004	0.005	0.009	0.005	< 0.005	0.005	0.002	0.005	< 0.005	0.005	0.023	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Copper	0.2	0.003	0.005	0.018	0.005	< 0.005	0.005	0.004	0.005	< 0.005	0.005	0.07	0.005	< 0.005	0.005	0.003	0.005	< 0.005	0.005
Iron	0.3	3.35	0.01	14.8	0.01	0.03	0.01	4.39	0.01	0.23	0.01	48.1	0.01	0.18	0.01	0.96	0.01	4.16	0.01
Lead	0.025	0.003	0.002	0.006	0.002	< 0.002	0.002	0.002	0.002	< 0.002	0.002	0.102	0.002	< 0.002	0.002	0.001	0.002	< 0.002	0.002
Magnesium	35	37.6	0.010	21.1	0.010	19.5	0.010	25.3	0.010	28.1	0.010	58	0.010	47.8	0.010	11.8	0.010	37.1	0.010
Manganese	0.3	2.81	0.050	2.58	0.050	0.251	0.005	1.81	0.005	0.448	0.005	1.34	0.005	0.843	0.005	0.288	0.005	2.85	0.050
Mercury	0.0007	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	0.1	0.005	0.004	0.015	0.004	0.005	0.004	0.007	0.004	0.008	0.004	0.039	0.004	0.003	0.004	0.002	0.004	0.004	0.004
Potassium		19	0.1	11.2	0.1	13.3	0.1	8.1	0.1	12	0.1	18.2	0.1	25.5	0.1	4	0.1	14.8	0.1
Selenium	0.01	< 0.010	0.010	< 0.010	0.010	0.012	0.010	0.002	0.010	< 0.010	0.010	0.002	0.010	0.017	0.010	0.001	0.010	< 0.010	0.010
Silver	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Sodium	20	94.9	1.0	38.3	0.10	62.2	1.0	163	1.0	142	1.0	26.8	0.10	48.4	0.10	6.74	0.10	114	1.0
Thallium	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005
Vanadium		0.005	0.010	0.029	0.010	< 0.010	0.010	0.006	0.010	< 0.010	0.010	0.07	0.010	< 0.010	0.010	0.004	0.010	< 0.010	0.010
Zinc	5	0.019	0.010	0.037	0.010	< 0.010	0.010	0.008	0.010	< 0.010	0.010	0.387	0.010	0.004	0.010	0.08	0.010	< 0.010	0.010

Notes:

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 12
69-02 Queens Blvd, Brooklyn, New York
RI Laboratory Results - Groundwater Samples -
Dissolved Metals

Compound	NYSDEC Groundwater Quality Standards	RI Laboratory Results																	
		19MW1		19MW2		19MW3		19MW4		19MW5		19MW6		19MW7		19MW8		19MW9	
		12/2/2019		11/26/2019		11/26/2019		12/2/2019		11/26/2019		12/2/2019		12/2/2019		12/2/2019		11/26/2019	
		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
Aluminum (Dissolved)	0.1	0.032	0.011	0.046	0.011	0.036	0.011	0.027	0.011	0.037	0.011	0.035	0.011	0.029	0.011	0.029	0.011	0.039	0.011
Arsenic, (Dissolved)	0.025	0.004	0.003	< 0.003	0.003	< 0.003	0.003	0.003	0.003	< 0.003	0.003	0.002	0.003	0.002	0.003	0.002	0.003	< 0.003	0.003
Barium (Dissolved)	1	0.096	0.011	0.105	0.011	0.062	0.011	0.075	0.011	0.132	0.011	0.101	0.011	0.177	0.011	0.029	0.011	0.261	0.011
Beryllium (Dissolved)	0.005	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cadmium (Dissolved)	0.003	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004	< 0.004	0.004
Calcium (Dissolved)		239	0.11	88.9	0.01	108	0.01	104	0.01	150	0.01	263	0.11	174	0.11	319	0.11	154	0.01
Chromium (Dissolved)	0.05	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	0.001
Cobalt, (Dissolved)		0.003	0.005	< 0.005	0.005	< 0.005	0.005	0.001	0.005	< 0.005	0.005	0.001	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Copper, (Dissolved)	0.2	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	0.008	0.005	< 0.005	0.005	0.001	0.005	< 0.005	0.005
Antimony (Dissolved)	0.003	0.0005	0.0003	< 0.003	0.003	< 0.003	0.003	0.0001	0.0003	< 0.003	0.003	0.0054	0.0003	0.0001	0.0003	0.0003	0.0003	< 0.003	0.003
Selenium (Dissolved)	0.01	< 0.002	0.002	< 0.010	0.010	0.012	0.010	0.001	0.002	< 0.010	0.010	0.001	0.002	0.016	0.002	< 0.002	0.002	< 0.010	0.010
Thallium (Dissolved)	0.0005	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003	< 0.0003	0.0003
Iron, (Dissolved)	0.3	< 0.01	0.01	0.04	0.01	0.03	0.01	0.02	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01	< 0.01	0.01
Lead (Dissolved)	0.025	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002	0.001	0.002	< 0.002	0.002	< 0.002	0.002	< 0.002	0.002
Magnesium (Dissolved)	35	36.1	0.01	18.9	0.01	21.1	0.01	24.8	0.01	29.2	0.01	41.2	0.01	46.9	0.01	11.3	0.01	37.4	0.01
Manganese, (Dissolved)	0.3	2.7	0.053	2.33	0.053	0.27	0.005	1.79	0.005	0.448	0.005	0.329	0.005	0.83	0.005	0.247	0.005	2.94	0.053
Mercury (Dissolved)	0.0007	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	0.0002
Nickel, (Dissolved)	0.1	0.003	0.004	< 0.004	0.004	< 0.004	0.004	0.005	0.004	0.006	0.004	0.005	0.004	0.002	0.004	0.001	0.004	< 0.004	0.004
Potassium (Dissolved)		20	1.1	8.7	0.1	12.7	0.1	7.6	1.1	11.6	0.1	13.1	1.1	26	0.1	3.6	1.1	14	0.1
Silver (Dissolved)	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005
Sodium (Dissolved)	20	93	1.1	36.5	0.11	56.6	1.1	163	1.1	152	1.1	25.1	0.11	48.5	0.11	6.6	0.11	118	1.1
Vanadium, (Dissolved)		0.002	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011	< 0.011	0.011
Zinc, (Dissolved)	5	0.012	0.011	< 0.011	0.011	< 0.011	0.011	0.003	0.011	< 0.011	0.011	0.165	0.011	< 0.011	0.011	0.072	0.011	< 0.011	0.011

Notes:

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 13
RI Laboratory Results - Groundwater Samples -
PFAS

RI Laboratory Results																		
Compound	19MW1		19MW2		19MW3		19MW4		19MW5		19MW6		19MW7		19MW8		19MW9	
	12/2/2019		11/26/2019		11/26/2019		12/2/2019		11/26/2019		12/2/2019		12/2/2019		12/2/2019		11/26/2019	
	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
Perfluorobutanoic Acid (PFBA)	0.0156	0.002	0.032	0.0019	0.03	0.0021	0.03	0.002	0.0335	0.0021	0.0322	0.002	0.0183	0.0019	0.00354	0.002	0.0319	0.0021
Perfluoropentanoic Acid (PFPeA)	0.0154	0.002	0.0941	0.0019	0.0152	0.0021	0.0873	0.002	0.0154	0.0021	0.0149	0.002	0.035	0.0019	0.00177	0.002	0.0949	0.0021
Perfluorobutanesulfonic Acid (PFBS)	0.00468	0.002	0.00568	0.0019	0.00479	0.0021	0.0051	0.002	0.00545	0.0021	0.00496	0.002	0.0153	0.0019	0.000863	0.002	0.00605	0.0021
Perfluorohexanoic Acid (PFHxA)	0.0172	0.002	0.0567	0.0019	0.0358	0.0021	0.0533	0.002	0.0359	0.0021	0.0317	0.002	0.0422	0.0019	0.00295	0.002	0.0574	0.0021
Perfluoroheptanoic Acid (PFHpA)	0.0118	0.002	0.0376	0.0019	0.0135	0.0021	0.0361	0.002	0.0142	0.0021	0.0121	0.002	0.0254	0.0019	0.00263	0.002	0.0393	0.0021
Perfluorohexanesulfonic Acid (PFHxS)	0.0092	0.002	0.00809	0.0019	0.00323	0.0021	0.00727	0.002	0.00533	0.0021	0.00586	0.002	0.00804	0.0019	0.00113	0.002	0.00757	0.0021
Perfluorooctanoic Acid (PFOA)	0.0249	0.002	0.0769	0.0019	0.115	0.0021	0.0737	0.002	0.117	0.0021	0.103	0.002	0.232	0.0019	0.0126	0.002	0.077	0.0021
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.002	0.00332	0.0019	0.00484	0.0021	0.00271	0.002	0.00416	0.0021	0.00373	0.002	ND	0.0019	ND	0.002	0.00752	0.0021
Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.002	0.00148	0.0019	0.00093	0.0021	0.0011	0.002	0.00122	0.0021	0.00114	0.002	ND	0.0019	ND	0.002	0.00102	0.0021
Perfluorononanoic Acid (PFNA)	0.00249	0.002	0.00763	0.0019	0.0489	0.0021	0.00754	0.002	0.048	0.0021	0.0402	0.002	0.000633	0.0019	0.00245	0.002	0.00796	0.0021
Perfluorooctanesulfonic Acid (PFOS)	0.0143	0.002	0.033	0.0019	0.109	0.0021	0.0329	0.002	0.106	0.0021	0.0995	0.002	0.00678	0.0019	0.0118	0.002	0.0311	0.0021
Perfluorodecanoic Acid (PFDA)	0.000626	0.002	ND	0.0019	0.0176	0.0021	ND	0.002	0.017	0.0021	0.0147	0.002	ND	0.0019	0.00936	0.002	ND	0.0021
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.002	ND	0.0019	0.00492	0.0021	ND	0.002	0.00556	0.0021	0.00429	0.002	ND	0.0019	ND	0.002	ND	0.0021
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.002	ND	0.0019	0.0178	0.0021	ND	0.002	0.0161	0.0021	0.014	0.002	ND	0.0019	0.0154	0.002	ND	0.0021
Perfluoroundecanoic Acid (PFUnA)	ND	0.002	ND	0.0019	0.00269	0.0021	ND	0.002	0.0028	0.0021	0.00228	0.002	ND	0.0019	0.00146	0.002	ND	0.0021
Perfluorodecanesulfonic Acid (PFDS)	ND	0.002	ND	0.0019	0.00278	0.0021	ND	0.002	0.00371	0.0021	0.00327	0.002	ND	0.0019	ND	0.002	ND	0.0021
Perfluorooctanesulfonamide (FOSA)	ND	0.002	ND	0.0019	0.00867	0.0021	ND	0.002	0.00698	0.0021	0.00712	0.002	ND	0.0019	0.00183	0.002	ND	0.0021
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.002	ND	0.0019	0.0934	0.0021	ND	0.002	0.0788	0.0021	0.0809	0.002	ND	0.0019	0.00932	0.002	0.00119	0.0021
Perfluorododecanoic Acid (PFDoA)	ND	0.002	ND	0.0019	0.00127	0.0021	ND	0.002	0.000996	0.0021	0.00124	0.002	ND	0.0019	0.00675	0.002	ND	0.0021
Perfluorotridecanoic Acid (PFTrDA)	ND	0.002	ND	0.0019	ND	0.0021	ND	0.002	ND	0.0021	ND	0.002	ND	0.0019	ND	0.002	ND	0.0021
Perfluorotetradecanoic Acid (PFTA)	ND	0.002	ND	0.0019	ND	0.0021	ND	0.002	ND	0.0021	ND	0.002	ND	0.0019	ND	0.002	ND	0.0021
Combined PFOA and PFOS	0.0392	0.002	0.11	0.0019	0.224	0.0021	0.107	0.002	0.223	0.0021	0.203	0.002	0.239	0.0019	0.0244	0.002	0.108	0.0021
Combined Total Detections	0.116196		0.3565		0.53032		0.33702		0.518106		0.47709		0.383653		0.083853		0.36291	

Notes:

DL- Detection Limit

J- The value is estimated.

ND- Not Detected

The USEPA Health Advisory Level for drinking water is 70 ng/L (ppt) for combined detections of PFOA and PFOS

Table 14
69-02 Queens Blvd, Brooklyn, New York
RI Laboratory Results -
Soil Vapor Samples -
Volatile Organic Compounds Soil Gas - Volatile Organic Compounds

		RI Laboratory Results																	
COMPOUNDS	NYSDOH Soil Outdoor Background Levels (µg/m ³) ^(b)	SG4		SG5		SG6		SG7		SG8		SG9		SG10		SG11		SG12	
		11/25/2019		11/25/2019		11/25/2019		11/25/2019		11/25/2019		11/25/2019		11/25/2019		11/25/2019		11/25/2019	
		µg/m ³	RL	µg/m ³	RL	µg/m ³	RL	µg/m ³	RL	µg/m ³	RL	µg/m ³	RL	µg/m ³	RL	µg/m ³	RL	µg/m ³	RL
1,1,1,2-Tetrachloroethane		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,1,1-Trichloroethane	<2.0 - 2.8	1.36	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,1,2,2-Tetrachloroethane	<1.5	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,1,2-Trichloroethane	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,1-Dichloroethane	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,1-Dichloroethene	<1.0	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20
1,2,4-Trichlorobenzene	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,2,4-Trimethylbenzene	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	1.11	1.00	1.06	1.00	<1.00	1.00	<1.00	1.00
1,2-Dibromoethane	<1.5	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,2-Dichlorobenzene	<2.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,2-Dichloroethane	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,2-Dichloropropane		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,2-Dichlorotetrafluoroethane		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,3,5-Trimethylbenzene	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,3-Butadiene	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,3-Dichlorobenzene	<2.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	1.86	1.00	1.56	1.00	2.36	1.00	1.8	1.00	1.53	1.00	1.71	1.00
1,4-Dichlorobenzene	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
1,4-Dioxane		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
2-Hexanone		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
4-Ethyltoluene	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	1.04	1.00	<1.00	1.00	<1.00	1.00
4-Isopropyltoluene		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
4-Methyl-2-pentanone		1.44	1.00	<1.00	1.00	<1.00	1.00	1.94	1.00	1.89	1.00	1.5	1.00	1.67	1.00	2.02	1.00	2.33	1.00
Acetone	NA	13.6	1.00	229	5.01	451	5.01	52.7	1.00	43.9	1.00	249	5.01	90.9	1.00	163	5.01	449	5.01
Acrylonitrile		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Benzene	<1.6 - 4.7	1.92	1.00	<1.00	1.00	1.22	1.00	1.65	1.00	1.45	1.00	2.45	1.00	1.48	1.00	2.21	1.00	1.48	1.00
Benzyl Chloride	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Bromodichloromethane	<5.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Bromoform	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Bromomethane	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Carbon Disulfide	NA	10.3	1.00	<1.00	1.00	7.5	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	11.8	1.00
Carbon Tetrachloride	<3.1	0.26	0.20	0.45	0.20	0.26	0.20	0.51	0.20	0.33	0.20	<0.20	0.20	0.26	0.20	0.28	0.20	0.29	0.20
Chlorobenzene	<2.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Chloroethane	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Chloroform	<2.4	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	1.09	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Chloromethane	<1.0 - 1.4	6.6	1.00	2.17	1.00	<1.00	1.00	2.11	1.00	1.36	1.00	<1.00	1.00	1.97	1.00	3.24	1.00	6.6	1.00
cis-1,2-Dichloroethene	<1.0	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.20	0.20	19.8	0.20
cis-1,3-Dichloropropene	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Cyclohexane	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	2.3	1.00	<1.00	1.00	<1.00	1.00
Dibromochloromethane	<5.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Dichlorodifluoromethane	NA	1.04	1.00	1.39	1.00	<1.00	1.00	1.77	1.00	1.15	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Ethanol		24.9	1.00	27.7	1.00	40.1	1.00	30.7	1.00	44.6	1.00	61.6	1.00	25.4	1.00	36	1.00	70.8	1.00
Ethyl Acetate	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Ethylbenzene	<4.3	<1.00	1.00	1.52	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	1.04	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Heptane	NA	25.1	1.00	1.01	1.00	<1.00	1.00	1.09	1.00	<1.00	1.00	3.06	1.00	5.45	1.00	<1.00	1.00	1.76	1.00
Hexachlorobutadiene	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Hexane	<1.5	65.2	1.00	<1.00	1.00	1.09	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	5.14	1.00	<1.00	1.00	<1.00	1.00
Isopropylalcohol	NA	1.6	1.00	8.08	1.00	<1.00	1.00	3.83	1.00	3.51	1.00	10.6	1.00	3.56	1.00	8.5	1.00	24	1.00
Isopropylbenzene		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Xylene (m&p)	<4.3	1.66	1.00	5.34	1.00	3.48	1.00	2.49	1.00	2.16	1.00	3.69	1.00	3.2	1.00	2.24	1.00	2.63	1.00
Methyl Ethyl Ketone		2.12	1.00	10.2	1.00	11.7	1.00	9.2	1.00	4.98	1.00	4.98	1.00	5.51	1.00	6.96	1.00	19.2	1.00
MTBE	NA	<1.00	1.00	<1.00	1.00	1.17	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Methylene Chloride	<3.4	<3.00	3.00	<3.00	3.00	<3.00	3.00	<3.00	3.00	<3.00	3.00	<3.00	3.00	<3.00	3.00	<3.00	3.00	<3.00	3.00
n-Butylbenzene		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Xylene (o)	<4.3	<1.00	1.00	1.6	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	1.35	1.00	1.02	1.00	<1.00	1.00	<1.00	1.00
Propylene	NA	<1.00	1.00	<1.00	1.00	<1.00	1.00	4.85	1.00	2.36	1.00	6.52	1.00	3.13	1.00	3.89	1.00	<1.00	1.00
sec-Butylbenzene		<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Styrene	<1.0	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00
Tetrachloroethene		4.34	0.25	5.99	0.25	7.05	0.25	0.58	0.25	0.92	0.25	1	0.25	0.94	0.25	1.65	0.25	37.1	0.25
Tetrahydrofuran	NA	10.3	1.00	<1.00	1.00	<1.00	1.00	1.44	1.00	<1.00	1.00	<1.00	1.00	<1.00	1.00	1.37	1.00	<1.00	1.00
Toluene	1.0 - 6.1	4.71	1.00	3.34	1.00	3.8	1.00	3.8	1.00	3.54	1.00	6.29	1.00	3.46	1.00	3.58	1.		

Notes:

NA No guidance value or standard available

(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

October 2006. New York State Department of Health.

(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

February 2005, Summary of Background Levels for Selected Compounds (NYSDOH)

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			EP1		EP2		EP3		EP4		EP4A		EP5	
			5/19/2021		5/24/2021		5/24/2021		5/24/2021		5/27/2021		5/24/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 18	18	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 16	16	< 4.2	4.2
1,1,1,1-Trichloroethane	680	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,1,2,2-Tetrachloroethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,1,2-Trichloroethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,1-Dichloroethane	270	26,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,1-Dichloroethene	330	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,1-Dichloropropene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2,3-Trichlorobenzene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2,3-Trichloropropene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2,4-Trichlorobenzene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2,4-Trimethylbenzene	3,600	52,000	< 4.6	4.6	< 3.6	3.6	0.63	3.8	5	4.0	1.6	4.0	< 4.2	4.2
1,2-Dibromo-3-chloropropane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2-Dibromoethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2-Dichlorobenzene	1,100	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2-Dichloroethane	20	3,100	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,2-Dichloropropene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,3,5-Trimethylbenzene	8,400	52,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	2.8	4.0	0.65	4.0	< 4.2	4.2
1,3-Dichlorobenzene	2,400	4,900	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,3-Dichloropropene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,4-Dichlorobenzene	1,800	13,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
1,4-Dioxane			< 73	73	< 65	55	< 58	58	< 73	73	< 61	61	< 63	63
2,2-Dichloropropene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
2-Chlorotoluene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
2-Hexanone (Methyl Butyl Ketone)			< 23	23	< 18	18	< 19	19	< 20	20	< 20	20	< 21	21
2-Isopropyltoluene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
4-Chlorotoluene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
4-Methyl-2-Pentanone			< 23	23	< 18	18	< 19	19	< 20	20	< 20	20	< 21	21
Acetone	50	100,000	11	23	7.5	18	9.1	19	4.6	20	41	20	< 21	21
Acrolein			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Acrylonitrile			< 9.1	9.1	< 7.3	7.3	< 15	15	< 8.0	8.0	< 8.1	8.1	< 17	17
Benzene	60	4,800	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Bromobenzene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Bromochloromethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Bromodichloromethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Bromoform			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Bromomethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Carbon Disulfide			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Carbon tetrachloride	760	2,400	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Chlorobenzene	1,100	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Chloroethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Chloroform	370	49,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Chloromethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
cis-1,2-Dichloroethene	250	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
cis-1,3-Dichloropropene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Dibromochloromethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Dibromomethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Dichlorodifluoromethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Ethylbenzene	1,000	41,000	< 4.6	4.6	< 3.6	3.6	0.45	3.8	1.3	4.0	< 4.0	4.0	< 4.2	4.2
Hexachlorobutadiene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Isopropylbenzene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
m&p-Xylenes	260	100,000	< 4.6	4.6	< 3.6	3.6	1.2	3.8	3.7	4.0	< 4.0	4.0	< 4.2	4.2
Methyl Ethyl Ketone (2-Butanone)	120	100,000	11	27	< 22	22	4.3	23	< 24	24	37	24	< 25	25
Methyl t-butyl ether (MTBE)	930	100,000	< 9.1	9.1	< 7.3	7.3	< 7.7	7.7	< 8.0	8.0	< 8.1	8.1	< 8.4	8.4
Methylene chloride	50	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Naphthalene	12,000	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	1.1	4.0	< 4.0	4.0	< 4.2	4.2
n-Butylbenzene	12,000	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
n-Propylbenzene	3,900	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	0.9	4.0	< 4.0	4.0	< 4.2	4.2
o-Xylene	260	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	1.3	4.0	< 4.0	4.0	< 4.2	4.2
p-Isopropyltoluene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
sec-Butylbenzene	11,000	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Styrene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
tert-Butyl alcohol			< 91	91	< 73	73	< 77	77	< 80	80	< 81	81	< 84	84
tert-Butylbenzene	5,900	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Tetrachloroethene	1,300	19,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Tetrahydrofuran (THF)			7.3	9.1	2.4	7.3	< 7.7	7.7	< 8.0	8.0	17	8.1	< 8.4	8.4
Toluene	700	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
trans-1,2-Dichloroethene	190	100,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
trans-1,3-Dichloropropene			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
trans-1,4-dichloro-2-butene			< 9.1	9.1	< 7.3	7.3	< 7.7	7.7	< 8.0	8.0	< 8.1	8.1	< 8.4	8.4
Trichloroethene	470	21,000	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Trichlorofluoromethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Trichlorofluoroethane			< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2
Vinyl Chloride	20	900	< 4.6	4.6	< 3.6	3.6	< 3.8	3.8	< 4.0	4.0	< 4.0	4.0	< 4.2	4.2

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			EP6		EP7		EP8		EP9		EP9A		EP10	
			5/19/2021		5/12/2021		5/12/2021		6/1/2021		6/4/2021		6/1/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 15	15	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 14	14
1,1,1,1-Trichloroethane	680	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,1,2,2-Tetrachloroethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,1,2-Trichloroethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,1-Dichloroethane	270	26,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,1-Dichloroethene	330	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,1-Dichloropropene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2,3-Trichlorobenzene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2,3-Trichloropropene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2,4-Trichlorobenzene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2,4-Trimethylbenzene	3,600	52,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2-Dibromo-3-chloropropane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2-Dibromoethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2-Dichlorobenzene	1,100	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2-Dichloroethane	20	3,100	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,2-Dichloropropene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,3,5-Trimethylbenzene	8,400	52,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,3-Dichlorobenzene	2,400	4,900	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,3-Dichloropropene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,4-Dichlorobenzene	1,800	13,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
1,4-Dioxane			< 72	72	< 67	57	< 65	55	< 65	65	< 65	65	< 63	53
2,2-Dichloropropene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
2-Chlorotoluene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
2-Hexanone (Methyl Butyl Ketone)			< 18	18	< 19	19	< 18	18	< 22	22	< 22	22	< 18	18
2-Isopropyltoluene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
4-Chlorotoluene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
4-Methyl-2-Pentanone			< 18	18	< 19	19	< 18	18	< 22	22	< 22	22	< 18	18
Acetone	50	100,000	< 18	18	< 19	19	5.2	18	26	22	16	22	13	18
Acrolein			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Acrylonitrile			< 7.4	7.4	< 7.6	7.6	< 7.3	7.3	< 17	17	< 17	17	< 14	14
Benzene	60	4,800	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Bromobenzene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Bromochloromethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Bromodichloromethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Bromoform			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Bromomethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Carbon Disulfide			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Carbon tetrachloride	760	2,400	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Chlorobenzene	1,100	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Chloroethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Chloroform	370	49,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Chloromethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
cis-1,2-Dichloroethene	250	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
cis-1,3-Dichloropropene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Dibromochloromethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Dibromomethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Dichlorodifluoromethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Ethylbenzene	1,000	41,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Hexachlorobutadiene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Isopropylbenzene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
m&p-Xylenes	260	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 22	22	< 23	23	< 22	22	440	120	12	26	11	21
Methyl t-butyl ether (MTBE)	930	100,000	< 7.4	7.4	< 7.6	7.6	< 7.3	7.3	< 8.6	8.6	< 8.7	8.7	< 7.1	7.1
Methylene chloride	50	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Naphthalene	12,000	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
n-Butylbenzene	12,000	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
n-Propylbenzene	3,900	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
o-Xylene	260	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
p-Isopropyltoluene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
sec-Butylbenzene	11,000	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Styrene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
tert-Butyl alcohol			< 74	74	< 76	76	< 73	73	< 86	86	< 87	87	< 71	71
tert-Butylbenzene	5,900	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Tetrachloroethene	1,300	19,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Tetrahydrofuran (THF)			< 7.4	7.4	< 7.6	7.6	< 7.3	7.3	180	180	14	8.7	5.4	7.1
Toluene	700	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
trans-1,2-Dichloroethene	190	100,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
trans-1,3-Dichloropropene			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
trans-1,4-dichloro-2-butene			< 7.4	7.4	< 7.6	7.6	< 7.3	7.3	< 8.6	8.6	< 8.7	8.7	< 7.1	7.1
Trichloroethene	470	21,000	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Trichlorofluoromethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Trichlorotrifluoroethane			< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6
Vinyl Chloride	20	900	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 4.3	4.3	< 4.4	4.4	< 3.6	3.6

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND			Endpoint Soil Analytical Results											
			EP11		EP11A		EP12		EP13		EP14		EP15	
			6/1/2021		6/4/2021		6/9/2021		6/9/2021		4/6/2021		9/27/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 20	20	< 18	18	< 15	15	< 16	16	< 14	14	< 18	18
1,1,1-Trichloroethane	680	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,1,2,2-Tetrachloroethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,1,2-Trichloroethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,1-Dichloroethane	270	26,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,1-Dichloroethene	330	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,1-Dichloropropene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2,3-Trichlorobenzene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2,3-Trichloropropane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2,4-Trichlorobenzene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2,4-Trimethylbenzene	3,600	52,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2-Dibromo-3-chloropropane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2-Dibromoethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2-Dichlorobenzene	1,100	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2-Dichloroethane	20	3,100	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,2-Dichloropropane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,3,5-Trimethylbenzene	8,400	52,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,3-Dichlorobenzene	2,400	4,900	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,3-Dichloropropane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,4-Dichlorobenzene	1,800	13,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
1,4-Dioxane			< 74	74	< 67	67	< 57	57	< 61	61	< 54	54	< 69	69
2,2-Dichloropropane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
2-Chlorotoluene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
2-Hexanone (Methyl Butyl Ketone)			< 25	25	< 22	22	< 19	19	< 20	20	< 18	18	< 23	23
2-Isopropyltoluene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
4-Chlorotoluene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
4-Methyl-2-Pentanone			< 25	25	< 22	22	< 19	19	< 20	20	< 18	18	< 23	23
Acetone	50	100,000	43	25	30	22	6.4	19	4.4	20	5.3	18	4.8	23
Acrolein			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Acrylonitrile			< 9.9	9.9	< 18	18	< 15	15	< 8.1	8.1	< 14	14	< 9.1	9.1
Benzene	60	4,800	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Bromobenzene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Bromochloromethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Bromodichloromethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Bromoform			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Bromomethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Carbon Disulfide			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Carbon tetrachloride	760	2,400	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Chlorobenzene	1,100	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Chloroethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Chloroform	370	49,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Chloromethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
cis-1,2-Dichloroethene	250	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
cis-1,3-Dichloropropene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Dibromochloromethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Dibromomethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Dichlorodifluoromethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Ethylbenzene	1,000	41,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Hexachlorobutadiene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Isopropylbenzene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
m&p-Xylenes	260	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Methyl Ethyl Ketone (2-Butanone)	120	100,000	340	30	33	27	< 23	23	< 24	24	< 21	21	< 27	27
Methyl t-butyl ether (MTBE)	930	100,000	< 9.9	9.9	< 9.0	9.0	< 7.6	7.6	< 8.1	8.1	< 7.1	7.1	< 9.1	9.1
Methylene chloride	50	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Naphthalene	12,000	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
n-Butylbenzene	12,000	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
n-Propylbenzene	3,900	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
o-Xylene	260	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
p-Isopropyltoluene			< 4.9	4.9	2.6	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
sec-Butylbenzene	11,000	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Styrene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
tert-Butyl alcohol			< 99	99	< 90	90	< 76	76	< 81	81	< 71	71	< 91	91
tert-Butylbenzene	5,900	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Tetrachloroethene	1,300	19,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Tetrahydrofuran (THF)			210	9.9	14	9.0	6.2	7.6	4.4	8.1	< 7.1	7.1	< 9.1	9.1
Toluene	700	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
trans-1,2-Dichloroethene	190	100,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
trans-1,3-Dichloropropene			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
trans-1,4-dichloro-2-butene			< 9.9	9.9	< 9.0	9.0	< 7.6	7.6	< 8.1	8.1	< 7.1	7.1	< 9.1	9.1
Trichloroethene	470	21,000	< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1	4.1	< 3.6	3.6	< 4.6	4.6
Trichlorofluoromethane			< 4.9	4.9	< 4.5	4.5	< 3.8	3.8	< 4.1					

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results													
			EP16	EP17		EP18		EP19		EP20		EP21				
			9/27/2021	9/27/2021		7/27/2021		6/17/2021		6/17/2021		6/10/2021				
			µg/Kg	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg				
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
1,1,1,2-Tetrachloroethane			< 5.8	5.8	< 20	20	< 13	13	< 4.3	4.3	< 4.1	4.1	< 17	17		
1,1,1-Trichloroethane	680	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,1,2,2-Tetrachloroethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,1,2-Trichloroethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,1-Dichloroethane	270	26,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,1-Dichloroethene	330	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,1-Dichloropropene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2,3-Trichlorobenzene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2,3-Trichloropropane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2,4-Trichlorobenzene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2,4-Trimethylbenzene	3,600	52,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2-Dibromo-3-chloropropane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2-Dibromoethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2-Dichlorobenzene	1,100	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2-Dichloroethane	20	3,100	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,2-Dichloropropane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,3,5-Trimethylbenzene	8,400	52,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,3-Dichlorobenzene	2,400	4,900	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,3-Dichloropropane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,4-Dichlorobenzene	1,800	13,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
1,4-Dioxane			< 86	86	< 76	76	< 48	48	< 65	65	< 62	62	< 66	66		
2,2-Dichloropropane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
2-Chlorotoluene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
2-Hexanone (Methyl Butyl Ketone)			< 29	29	< 25	25	< 16	16	< 22	22	< 21	21	< 22	22		
2-Isopropyltoluene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
4-Chlorotoluene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
4-Methyl-2-Pentanone			< 29	29	< 25	25	< 16	16	< 22	22	< 21	21	< 22	22		
Acetone	50	100,000	13	29	< 25	25	48	16	< 22	22	< 21	21	< 22	22		
Acrolein			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Acrylonitrile			< 23	23	< 10	10	< 13	13	< 8.7	8.7	< 8.3	8.3	< 17	17		
Benzene	60	4,800	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Bromobenzene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Bromochloromethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Bromodichloromethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Bromoform			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Bromomethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Carbon Disulfide			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Carbon tetrachloride	760	2,400	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Chlorobenzene	1,100	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Chloroethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Chloroform	370	49,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Chloromethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
cis-1,2-Dichloroethene	250	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
cis-1,3-Dichloropropene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Dibromochloromethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Dibromomethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Dichlorodifluoromethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Ethylbenzene	1,000	41,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Hexachlorobutadiene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Isopropylbenzene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
m&p-Xylenes	260	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 35	35	< 30	30	43	19	4.5	26	< 25	25	< 26	26		
Methyl t-butyl ether (MTBE)	930	100,000	< 12	12	< 10	10	< 6.4	6.4	< 8.7	8.7	< 8.3	8.3	< 8.7	8.7		
Methylene chloride	50	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Naphthalene	12,000	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
n-Butylbenzene	12,000	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
n-Propylbenzene	3,900	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
o-Xylene	260	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
p-Isopropyltoluene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
sec-Butylbenzene	11,000	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Styrene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
tert-Butyl alcohol			< 120	120	< 100	100	< 3.2	3.2	< 8.7	8.7	< 8.3	8.3	< 8.7	8.7		
tert-Butylbenzene	5,900	100,000	< 5.8	5.8	< 5.1	5.1	< 6.4	6.4	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Tetrachloroethene	1,300	19,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Tetrahydrofuran (THF)			< 12	12	< 10	10	25	6.4	8.4	8.7	6.1	8.3	6.2	8.7		
Toluene	700	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
trans-1,2-Dichloroethene	190	100,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
trans-1,3-Dichloropropene			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
trans-1,4-dichloro-2-butene			< 12	12	< 10	10	< 6.4	6.4	< 8.7	8.7	< 8.3	8.3	< 8.7	8.7		
Trichloroethene	470	21,000	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Trichlorofluoromethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Trichlorotrifluoroethane			< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		
Vinyl Chloride	20	900	< 5.8	5.8	< 5.1	5.1	< 3.2	3.2	< 4.3	4.3	< 4.1	4.1	< 4.4	4.4		

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			EP22		EP23		EP24		EP25		EP26		EP27	
			6/10/2021		3/30/2021		9/28/2021		9/27/2021		6/21/2021		6/21/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 16	16	< 4.0	4.0	< 26	26	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,1,1-Trichloroethane	680	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,1,2,2-Tetrachloroethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,1,2-Trichloroethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,1-Dichloroethane	270	26,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,1-Dichloroethene	330	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,1-Dichloropropene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2,3-Trichlorobenzene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2,3-Trichloropropane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2,4-Trichlorobenzene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2,4-Trimethylbenzene	3,600	52,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2-Dibromo-3-chloropropane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2-Dibromoethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2-Dichlorobenzene	1,100	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2-Dichloroethane	20	3,100	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,2-Dichloropropane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,3,5-Trimethylbenzene	8,400	52,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,3-Dichlorobenzene	2,400	4,900	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,3-Dichloropropane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,4-Dichlorobenzene	1,800	13,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
1,4-Dioxane			< 59	59	< 60	60	< 96	96	< 85	85	< 35	35	< 54	54
2,2-Dichloropropane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
2-Chlorotoluene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
2-Hexanone (Methyl Butyl Ketone)			< 20	20	< 20	20	< 32	32	< 28	28	< 12	12	< 18	18
2-Isopropyltoluene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
4-Chlorotoluene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
4-Methyl-2-Pentanone			< 20	20	< 20	20	< 32	32	< 28	28	< 12	12	< 18	18
Acetone	50	100,000	< 20	20	< 20	20	< 32	32	< 28	28	18	12	12	18
Acrolein			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Acrylonitrile			< 7.8	7.8	< 8.0	8.0	< 13	13	< 23	23	< 4.7	4.7	< 14	14
Benzene	60	4,800	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Bromobenzene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Bromochloromethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Bromodichloromethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Bromoform			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Bromomethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Carbon Disulfide			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Carbon tetrachloride	760	2,400	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Chlorobenzene	1,100	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Chloroethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Chloroform	370	49,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Chloromethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
cis-1,2-Dichloroethene	250	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
cis-1,3-Dichloropropene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Dibromochloromethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Dibromomethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Dichlorodifluoromethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Ethylbenzene	1,000	41,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Hexachlorobutadiene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Isopropylbenzene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
m&p-Xylenes	260	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 24	24	4.8	24	< 38	38	< 34	34	24	14	19	22
Methyl t-butyl ether (MTBE)	930	100,000	< 7.8	7.8	< 8.0	8.0	< 13	13	< 11	11	< 4.7	4.7	< 7.2	7.2
Methylene chloride	50	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Naphthalene	12,000	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
n-Butylbenzene	12,000	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
n-Propylbenzene	3,900	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
o-Xylene	260	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
p-Isopropyltoluene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
sec-Butylbenzene	11,000	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Styrene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
tert-Butyl alcohol			< 78	78	< 80	80	< 130	130	< 110	110	< 47	47	< 72	72
tert-Butylbenzene	5,900	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Tetrachloroethene	1,300	19,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Tetrahydrofuran (THF)			8.3	7.8	< 8.0	8.0	< 13	13	< 11	11	13	4.7	14	7.2
Toluene	700	100,000	< 3.9	3.9	0.56	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
trans-1,2-Dichloroethene	190	100,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
trans-1,3-Dichloropropene			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
trans-1,4-dichloro-2-butene			< 7.8	7.8	< 8.0	8.0	< 13	13	< 11	11	< 4.7	4.7	< 7.2	7.2
Trichloroethene	470	21,000	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Trichlorofluoromethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Trichlorotrifluoroethane			< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6
Vinyl Chloride	20	900	< 3.9	3.9	< 4.0	4.0	< 6.4	6.4	< 5.7	5.7	< 2.3	2.3	< 3.6	3.6

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			EP28		EP29		EP30		EP31		EP32		EP33	
			7/7/2021		6/17/2021		3/29/2021		3/29/2021		4/1/2021		3/23/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 13	13	< 14	14	< 3.9	3.9	< 11	11	< 4.0	4.0	< 4.7	4.7
1,1,1,1-Trichloroethane	680	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,1,2,2-Tetrachloroethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,1,2-Trichloroethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,1-Dichloroethane	270	26,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,1-Dichloroethene	330	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,1-Dichloropropene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2,3-Trichlorobenzene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2,3-Trichloropropene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2,4-Trichlorobenzene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2,4-Trimethylbenzene	3,600	52,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2-Dibromo-3-chloropropane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2-Dibromoethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2-Dichlorobenzene	1,100	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2-Dichloroethane	20	3,100	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,2-Dichloropropene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,3,5-Trimethylbenzene	8,400	52,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,3-Dichlorobenzene	2,400	4,900	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,3-Dichloropropene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,4-Dichlorobenzene	1,800	13,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
1,4-Dioxane			< 48	48	< 52	52	< 58	58	< 41	41	< 60	60	< 71	71
2,2-Dichloropropene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
2-Chlorotoluene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
2-Hexanone (Methyl Butyl Ketone)			< 16	16	< 17	17	< 19	19	< 14	14	< 20	20	< 24	24
2-Isopropyltoluene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
4-Chlorotoluene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
4-Methyl-2-Pentanone			< 16	16	< 17	17	< 19	19	< 14	14	< 20	20	< 24	24
Acetone	50	100,000	< 16	16	4.8	17	< 19	19	< 14	14	8.1	20	4.9	24
Acrolein			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Acrylonitrile			< 13	13	< 14	14	< 7.7	7.7	< 5.4	5.4	< 16	16	< 19	19
Benzene	60	4,800	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Bromobenzene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Bromochloromethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Bromodichloromethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Bromoform			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Bromomethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Carbon Disulfide			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Carbon tetrachloride	760	2,400	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Chlorobenzene	1,100	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Chloroethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Chloroform	370	49,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Chloromethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
cis-1,2-Dichloroethene	250	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
cis-1,3-Dichloropropene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Dibromochloromethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Dibromomethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Dichlorodifluoromethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Ethylbenzene	1,000	41,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Hexachlorobutadiene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Isopropylbenzene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
m&p-Xylenes	260	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 19	19	< 21	21	< 23	23	< 16	16	5.9	24	< 28	28
Methyl t-butyl ether (MTBE)	930	100,000	< 6.4	6.4	< 6.9	6.9	< 7.7	7.7	< 5.4	5.4	< 8.0	8.0	< 9.5	9.5
Methylene chloride	50	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Naphthalene	12,000	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
n-Butylbenzene	12,000	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
n-Propylbenzene	3,900	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
o-Xylene	260	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
p-Isopropyltoluene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
sec-Butylbenzene	11,000	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Styrene			< 64	64	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
tert-Butyl alcohol			< 3.2	3.2	< 69	69	< 77	77	< 54	54	< 4.0	4.0	< 95	95
tert-Butylbenzene	5,900	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 80	80	< 4.7	4.7
Tetrachloroethene	1,300	19,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Tetrahydrofuran (THF)			6.3	8.4	8.6	6.9	< 7.7	7.7	< 5.4	5.4	< 8.0	8.0	< 9.5	9.5
Toluene	700	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
trans-1,2-Dichloroethene	190	100,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
trans-1,3-Dichloropropene			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
trans-1,4-dichloro-2-butene			< 6.4	6.4	< 6.9	6.9	< 7.7	7.7	< 5.4	5.4	< 8.0	8.0	< 9.5	9.5
Trichloroethene	470	21,000	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Trichlorofluoromethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Trichlorotrifluoroethane			< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7
Vinyl Chloride	20	900	< 3.2	3.2	< 3.4	3.4	< 3.9	3.9	< 2.7	2.7	< 4.0	4.0	< 4.7	4.7

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			EP34	EP35		EP36		EP37		EP38		EP39		
			3/22/2021	9/28/2021		9/27/2021		7/21/2021		7/20/2021		3/31/2021		
			µg/Kg	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			<4.7	4.7	<4.9	4.9	<21	21	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,1,1-Trichloroethane	680	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,1,2,2-Tetrachloroethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,1,2-Trichloroethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,1-Dichloroethane	270	26,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,1-Dichloroethene	330	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,1-Dichloropropene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2,3-Trichlorobenzene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2,3-Trichloropropane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2,4-Trichlorobenzene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2,4-Trimethylbenzene	3,600	52,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2-Dibromo-3-chloropropane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2-Dibromoethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2-Dichlorobenzene	1,100	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2-Dichloroethane	20	3,100	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,2-Dichloropropane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,3,5-Trimethylbenzene	8,400	52,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,3-Dichlorobenzene	2,400	4,900	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,3-Dichloropropane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,4-Dichlorobenzene	1,800	13,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
1,4-Dioxane			<71	71	<73	73	<79	79	<55	55	<45	45	-	-
2,2-Dichloropropane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
2-Chlorotoluene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
2-Hexanone (Methyl Butyl Ketone)			<24	24	<24	24	<26	26	<18	18	<15	15	<21	21
2-Isopropyltoluene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
4-Chlorotoluene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
4-Methyl-2-Pentanone			<24	24	<24	24	<26	26	<18	18	<15	15	<21	21
Acetone	50	100,000	4.9	24	<24	24	<26	26	<18	18	6.8	15	<21	21
Acrolein			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Acrylonitrile			<19	19	<9.8	9.8	<10	10	<15	15	<6.0	6.0	<8.3	8.3
Benzene	60	4,800	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Bromobenzene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Bromochloromethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Bromodichloromethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Bromoform			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Bromomethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Carbon Disulfide			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Carbon tetrachloride	760	2,400	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Chlorobenzene	1,100	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Chloroethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Chloroform	370	49,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Chloromethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
cis-1,2-Dichloroethene	250	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
cis-1,3-Dichloropropene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Dibromochloromethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Dibromomethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Dichlorodifluoromethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Ethylbenzene	1,000	41,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Hexachlorobutadiene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Isopropylbenzene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
m&p-Xylenes	260	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Methyl Ethyl Ketone (2-Butanone)	120	100,000	<28	28	<29	29	<31	31	<22	22	6.4	18	<25	25
Methyl t-butyl ether (MTBE)	930	100,000	<9.5	9.5	<9.8	9.8	<10	10	<7.3	7.3	<6.0	6.0	<8.3	8.3
Methylene chloride	50	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Naphthalene	12,000	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
n-Butylbenzene	12,000	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
n-Propylbenzene	3,900	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
o-Xylene	260	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
p-Isopropyltoluene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
sec-Butylbenzene	11,000	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Styrene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
tert-Butyl alcohol			<4.7	4.7	<98	98	<100	100	<3.7	3.7	<3.0	3.0	<4.1	4.1
tert-Butylbenzene	5,900	100,000	<95	95	<4.9	4.9	<5.2	5.2	<7.3	7.3	<6.0	6.0	<8.3	8.3
Tetrachloroethene	1,300	19,000	<4.7	4.7	1.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Tetrahydrofuran (THF)			<9.5	9.5	<9.8	9.8	<10	10	11	7.3	13	6.0	<8.3	8.3
Toluene	700	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
trans-1,2-Dichloroethene	190	100,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
trans-1,3-Dichloropropene			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
trans-1,4-dichloro-2-butene			<9.5	9.5	<9.8	9.8	<10	10	<7.3	7.3	<6.0	6.0	<8.3	8.3
Trichloroethene	470	21,000	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Trichlorofluoromethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Trichlorotrifluoroethane			<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1
Vinyl Chloride	20	900	<4.7	4.7	<4.9	4.9	<5.2	5.2	<3.7	3.7	<3.0	3.0	<4.1	4.1

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results													
			EP40		EP41		EP42		EP43		EP44		EP45			
			3/30/2021		3/30/2021		3/23/2021		3/23/2021		3/23/2021		3/23/2021			
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg			
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
1,1,1,2-Tetrachloroethane			< 14	14	< 12	12	< 5.1	5.1	< 4.0	4.0	< 21	21	< 21	21		
1,1,1-Trichloroethane	680	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,1,2,2-Tetrachloroethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,1,2-Trichloroethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,1-Dichloroethane	270	26,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,1-Dichloroethene	330	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,1-Dichloropropene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2,3-Trichlorobenzene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2,3-Trichloropropane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2,4-Trichlorobenzene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2,4-Trimethylbenzene	3,600	52,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2-Dibromo-3-chloropropane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2-Dibromoethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2-Dichlorobenzene	1,100	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2-Dichloroethane	20	3,100	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,2-Dichloropropane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,3,5-Trimethylbenzene	8,400	52,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,3-Dichlorobenzene	2,400	4,900	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,3-Dichloropropane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,4-Dichlorobenzene	1,800	13,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
1,4-Dioxane			< 53	53	< 46	46	-	-	< 60	60	-	-	< 81	81		
2,2-Dichloropropane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
2-Chlorotoluene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
2-Hexanone (Methyl Butyl Ketone)			< 18	18	< 15	15	< 25	25	< 20	20	< 26	26	< 27	27		
2-Isopropyltoluene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
4-Chlorotoluene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
4-Methyl-2-Pentanone			< 18	18	< 15	15	< 25	25	< 20	20	< 26	26	< 27	27		
Acetone	50	100,000	< 18	18	< 15	15	5.9	25	< 20	20	< 26	26	< 27	27		
Acrolein			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Acrylonitrile			< 14	14	< 6.2	6.2	< 20	20	< 8.1	8.1	< 10	10	< 21	21		
Benzene	60	4,800	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Bromobenzene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Bromochloromethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Bromodichloromethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Bromoform			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Bromomethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Carbon Disulfide			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Carbon tetrachloride	760	2,400	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Chlorobenzene	1,100	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Chloroethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Chloroform	370	49,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Chloromethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
cis-1,2-Dichloroethene	250	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
cis-1,3-Dichloropropene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Dibromochloromethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Dibromomethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Dichlorodifluoromethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Ethylbenzene	1,000	41,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Hexachlorobutadiene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Isopropylbenzene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
m&p-Xylenes	260	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 21	21	< 19	19	< 30	30	< 24	24	< 31	31	< 32	32		
Methyl t-butyl ether (MTBE)	930	100,000	< 7.1	7.1	< 6.2	6.2	< 10	10	< 8.1	8.1	< 10	10	< 11	11		
Methylene chloride	50	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Naphthalene	12,000	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
n-Butylbenzene	12,000	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
n-Propylbenzene	3,900	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
o-Xylene	260	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
p-Isopropyltoluene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
sec-Butylbenzene	11,000	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Styrene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
tert-Butyl alcohol			< 71	71	< 62	62	< 100	100	< 81	81	< 100	100	< 110	110		
tert-Butylbenzene	5,900	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Tetrachloroethene	1,300	19,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Tetrahydrofuran (THF)			< 7.1	7.1	< 6.2	6.2	< 10	10	< 8.1	8.1	< 10	10	< 11	11		
Toluene	700	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
trans-1,2-Dichloroethene	190	100,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
trans-1,3-Dichloropropene			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
trans-1,4-dichloro-2-butene			< 7.1	7.1	< 6.2	6.2	< 10	10	< 8.1	8.1	< 10	10	< 11	11		
Trichloroethene	470	21,000	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Trichlorofluoromethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Trichlorotrifluoroethane			< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		
Vinyl Chloride	20	900	< 3.5	3.5	< 3.1	3.1	< 5.1	5.1	< 4.0	4.0	< 5.2	5.2	< 5.4	5.4		

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND			Endpoint Soil Analytical Results											
			EP47		EP48		EP49		EP50		EP51		EP52	
			10'											
			8/11/2021		7/20/2021		3/31/2021		3/31/2021		3/31/2021		3/23/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
µg/Kg			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 5.3	5.3	< 2.7	2.7	< 14	14	< 11	11	< 4.0	4.0	< 5.3	5.3
1,1,1-Trichloroethane	680	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,1,2,2-Tetrachloroethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,1,2-Trichloroethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,1-Dichloroethane	270	26,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,1-Dichloroethene	330	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,1-Dichloropropene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2,3-Trichlorobenzene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2,3-Trichloropropane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2,4-Trichlorobenzene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2,4-Trimethylbenzene	3,600	52,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2-Dibromo-3-chloropropane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2-Dibromoethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2-Dichlorobenzene	1,100	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2-Dichloroethane	20	3,100	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,2-Dichloropropane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,3,5-Trimethylbenzene	8,400	52,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,3-Dichlorobenzene	2,400	4,900	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,3-Dichloropropane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,4-Dichlorobenzene	1,800	13,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
1,4-Dioxane			< 79	79	< 41	41	< 53	53	-	-	< 60	60	< 79	79
2,2-Dichloropropane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
2-Chlorotoluene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
2-Hexanone (Methyl Butyl Ketone)			< 26	26	< 14	14	< 18	18	< 14	14	< 20	20	< 26	26
2-Isopropyltoluene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
4-Chlorotoluene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
4-Methyl-2-Pentanone			< 26	26	< 14	14	< 18	18	< 14	14	< 20	20	< 26	26
Acetone	50	100,000	41	26	24	14	3.8	18	< 14	14	5.2	20	< 26	26
Acrolein			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Acrylonitrile			< 11	11	< 11	11	< 7.0	7.0	< 5.7	5.7	< 8.0	8.0	< 11	11
Benzene	60	4,800	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Bromobenzene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Bromochloromethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Bromodichloromethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Bromoform			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Bromomethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Carbon Disulfide			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Carbon tetrachloride	760	2,400	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Chlorobenzene	1,100	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Chloroethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Chloroform	370	49,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Chloromethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
cis-1,2-Dichloroethene	250	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
cis-1,3-Dichloropropene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Dibromochloromethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Dibromomethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Dichlorodifluoromethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Ethylbenzene	1,000	41,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Hexachlorobutadiene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Isopropylbenzene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
m&p-Xylenes	260	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Methyl Ethyl Ketone (2-Butanone)	120	100,000	52	32	14	16	< 21	21	< 17	17	< 24	24	< 32	32
Methyl t-butyl ether (MTBE)	930	100,000	< 11	11	< 5.4	5.4	< 7.0	7.0	< 5.7	5.7	< 8.0	8.0	< 11	11
Methylene chloride	50	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	5.8	5.3
Naphthalene	12,000	100,000	< 5.3	5.3	< 2.7	2.7	2.1	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
n-Butylbenzene	12,000	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
n-Propylbenzene	3,900	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
o-Xylene	260	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
p-Isopropyltoluene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
sec-Butylbenzene	11,000	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Styrene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
tert-Butyl alcohol			< 110	110	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
tert-Butylbenzene	5,900	100,000	< 5.3	5.3	< 54	54	< 70	70	< 57	57	< 80	80	< 110	110
Tetrachloroethene	1,300	19,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Tetrahydrofuran (THF)			39	11	15	5.4	< 7.0	7.0	< 5.7	5.7	< 8.0	8.0	< 11	11
Toluene	700	100,000	0.86	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
trans-1,2-Dichloroethene	190	100,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
trans-1,3-Dichloropropene			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
trans-1,4-dichloro-2-butene			< 11	11	< 5.4	5.4	< 7.0	7.0	< 5.7	5.7	< 8.0	8.0	< 11	11
Trichloroethene	470	21,000	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Trichlorofluoromethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Trichlorotrifluoroethane			< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3
Vinyl Chloride	20	900	< 5.3	5.3	< 2.7	2.7	< 3.5	3.5	< 2.8	2.8	< 4.0	4.0	< 5.3	5.3

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

			Endpoint Soil Analytical Results													
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP53		EP54		EP55		EP56		EP57		EP58			
			3/23/2021		3/23/2021		3/22/2021		9/29/2021		4/13/2021		3/31/2021			
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg			
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
1,1,1,2-Tetrachloroethane			< 4.1	4.1	< 18	18	< 4.4	4.4	< 4.6	4.6	< 14	14	< 14	14		
1,1,1-Trichloroethane	680	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,1,2,2-Tetrachloroethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,1,2-Trichloroethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,1-Dichloroethane	270	26,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,1-Dichloroethene	330	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,1-Dichloropropene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2,3-Trichlorobenzene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2,3-Trichloropropane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2,4-Trichlorobenzene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2,4-Trimethylbenzene	3,600	52,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2-Dibromo-3-chloropropane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2-Dibromoethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2-Dichlorobenzene	1,100	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2-Dichloroethane	20	3,100	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,2-Dichloropropane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,3,5-Trimethylbenzene	8,400	52,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,3-Dichlorobenzene	2,400	4,900	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,3-Dichloropropane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,4-Dichlorobenzene	1,800	13,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
1,4-Dioxane			< 61	61	< 69	69	< 65	65	< 69	69	< 52	52	< 53	53		
2,2-Dichloropropane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
2-Chlorotoluene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
2-Hexanone (Methyl Butyl Ketone)			< 20	20	< 23	23	< 22	22	< 23	23	< 17	17	< 18	18		
2-Isopropyltoluene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
4-Chlorotoluene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
4-Methyl-2-Pentanone			< 20	20	< 23	23	< 22	22	< 23	23	< 17	17	< 18	18		
Acetone	50	100,000	6.2	20	< 23	23	4.4	22	< 23	23	8.4	17	10	18		
Acrolein			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Acrylonitrile			< 16	16	< 9.1	9.1	< 8.7	8.7	< 18	18	< 6.9	6.9	< 14	14		
Benzene	60	4,800	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Bromobenzene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Bromochloromethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Bromodichloromethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Bromoform			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Bromomethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Carbon Disulfide			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	0.76	3.4	< 3.5	3.5		
Carbon tetrachloride	760	2,400	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Chlorobenzene	1,100	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Chloroethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Chloroform	370	49,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Chloromethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
cis-1,2-Dichloroethene	250	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	1.2	4.6	< 3.4	3.4	< 3.5	3.5		
cis-1,3-Dichloropropene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Dibromochloromethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Dibromomethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Dichlorodifluoromethane			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Ethylbenzene	1,000	41,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Hexachlorobutadiene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Isopropylbenzene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
m&p-Xylenes	260	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Methyl Ethyl Ketone (2-Butanone)	120	100,000	11	24	< 27	27	< 26	26	< 28	28	< 21	21	< 21	21		
Methyl t-butyl ether (MTBE)	930	100,000	< 8.2	8.2	< 9.1	9.1	< 8.7	8.7	< 9.2	9.2	< 6.9	6.9	< 7.0	7.0		
Methylene chloride	50	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Naphthalene	12,000	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
n-Butylbenzene	12,000	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
n-Propylbenzene	3,900	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
o-Xylene	260	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
p-Isopropyltoluene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
sec-Butylbenzene	11,000	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Styrene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
tert-Butyl alcohol			< 82	82	< 91	91	< 84	84	< 92	92	< 69	69	< 3.5	3.5		
tert-Butylbenzene	5,900	100,000	< 4.1	4.1	< 4.6	4.6	< 87	87	< 4.6	4.6	< 3.4	3.4	< 7.0	7.0		
Tetrachloroethene	1,300	19,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	0.93	3.4	< 3.5	3.5		
Tetrahydrofuran (THF)			2.4	8.2	< 9.1	9.1	< 8.7	8.7	< 9.2	9.2	< 6.9	6.9	< 7.0	7.0		
Toluene	700	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
trans-1,2-Dichloroethene	190	100,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
trans-1,3-Dichloropropene			< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
trans-1,4-dichloro-2-butene			< 8.2	8.2	< 9.1	9.1	< 8.7	8.7	< 9.2	9.2	< 6.9	6.9	< 7.0	7.0		
Trichloroethene	470	21,000	< 4.1	4.1	< 4.6	4.6	< 4.4	4.4	< 4.6	4.6	< 3.4	3.4	< 3.5	3.5		
Trichlorofluoromethane			< 4.1	4.1	< 4.6											

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			EP59	EP60		EP61	EP62		EP62A		EP63			
			3/31/2021	3/31/2021		3/23/2021	3/22/2021		3/31/2021		3/22/2021			
			µg/Kg	µg/Kg		µg/Kg	µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			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-Tetrachloroethane			< 3.3 3.3	< 16 16	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 18 18						
1,1,1-Trichloroethane	680	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,1,2,2-Tetrachloroethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,1,2-Trichloroethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,1-Dichloroethane	270	26,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,1-Dichloroethene	330	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,1-Dichloropropene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2,3-Trichlorobenzene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2,3-Trichloropropane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2,4-Trichlorobenzene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2,4-Trimethylbenzene	3,600	52,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2-Dibromo-3-chloropropane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2-Dibromoethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2-Dichlorobenzene	1,100	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2-Dichloroethane	20	3,100	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,2-Dichloropropane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,3,5-Trimethylbenzene	8,400	52,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,3-Dichlorobenzene	2,400	4,900	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,3-Dichloropropane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,4-Dichlorobenzene	1,800	13,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
1,4-Dioxane			< 50 50	< 69 59	< 64 64	< 67 67	< 49 49	< 69 69						
2,2-Dichloropropane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
2-Chlorotoluene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
2-Hexanone (Methyl Butyl Ketone)			< 17 17	< 20 20	< 21 21	< 22 22	< 16 16	< 23 23						
2-Isopropyltoluene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
4-Chlorotoluene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
4-Methyl-2-Pentanone			< 17 17	< 20 20	< 21 21	< 22 22	< 16 16	< 23 23						
Acetone	50	100,000	< 17 17	< 20 20	5.8 21	< 22 22	< 16 16	< 23 23						
Acrolein			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Acrylonitrile			< 13 13	< 16 16	< 8.5 8.5	< 18 18	< 13 13	< 18 18						
Benzene	60	4,800	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Bromobenzene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Bromochloromethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Bromodichloromethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Bromoform			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Bromomethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Carbon Disulfide			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Carbon tetrachloride	760	2,400	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Chlorobenzene	1,100	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Chloroethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Chloroform	370	49,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Chloromethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
cis-1,2-Dichloroethene	250	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
cis-1,3-Dichloropropene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Dibromochloromethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Dibromomethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Dichlorodifluoromethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Ethylbenzene	1,000	41,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Hexachlorobutadiene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Isopropylbenzene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
m&p-Xylenes	260	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 20 20	< 24 24	6.3 26	< 27 27	< 20 20	< 27 27						
Methyl t-butyl ether (MTBE)	930	100,000	< 66 66	< 79 79	< 85 85	< 89 89	< 65 65	< 91 91						
Methylene chloride	50	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Naphthalene	12,000	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
n-Butylbenzene	12,000	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
n-Propylbenzene	3,900	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
o-Xylene	260	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
p-Isopropyltoluene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
sec-Butylbenzene	11,000	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Styrene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
tert-Butyl alcohol			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
tert-Butylbenzene	5,900	100,000	< 66 66	< 79 79	< 85 85	< 89 89	< 65 65	< 91 91						
Tetrachloroethene	1,300	19,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Tetrahydrofuran (THF)			< 66 66	< 79 79	< 85 85	< 89 89	< 65 65	< 91 91						
Toluene	700	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
trans-1,2-Dichloroethene	190	100,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
trans-1,3-Dichloropropene			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
trans-1,4-dichloro-2-butene			< 66 66	< 79 79	< 85 85	< 89 89	< 65 65	< 91 91						
Trichloroethene	470	21,000	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Trichlorofluoromethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Trichlorotrifluoroethane			< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						
Vinyl Chloride	20	900	< 3.3 3.3	< 3.9 3.9	< 4.3 4.3	< 4.5 4.5	< 3.3 3.3	< 4.6 4.6						

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND			Endpoint Soil Analytical Results													
			EP64		EP65		EP67		Soil Duplicate		Soil Duplicate		Soil Duplicate			
									EP42		EP30		EP41			
			3/22/2021		9/28/2021		9/28/2021		3/23/2021		3/29/2021		3/30/2021			
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg			
µg/Kg			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
1,1,1,2-Tetrachloroethane			< 21	21	< 6.9	6.9	< 18	18	< 18	18	< 4.3	4.3	< 14	14		
1,1,1-Trichloroethane	680	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,1,2,2-Tetrachloroethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,1,2-Trichloroethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,1-Dichloroethane	270	26,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,1-Dichloroethene	330	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,1-Dichloropropene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2,3-Trichlorobenzene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2,3-Trichloropropane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2,4-Trichlorobenzene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2,4-Trimethylbenzene	3,600	52,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2-Dibromo-3-chloropropane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2-Dibromoethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2-Dichlorobenzene	1,100	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2-Dichloroethane	20	3,100	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,2-Dichloropropane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,3,5-Trimethylbenzene	8,400	52,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,3-Dichlorobenzene	2,400	4,900	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,3-Dichloropropane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,4-Dichlorobenzene	1,800	13,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
1,4-Dioxane			< 77	77	< 100	100	< 67	67	-	-	< 65	65	< 51	51		
2,2-Dichloropropane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
2-Chlorotoluene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
2-Hexanone (Methyl Butyl Ketone)			< 26	26	< 34	34	< 22	22	< 23	23	< 22	22	< 17	17		
2-Isopropyltoluene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
4-Chlorotoluene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
4-Methyl-2-Pentanone			< 26	26	< 34	34	< 22	22	< 23	23	< 22	22	< 17	17		
Acetone	50	100,000	6.4	26	< 34	34	< 22	22	11	23	11	22	< 17	17		
Acrolein			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Acrylonitrile			< 21	21	< 14	14	< 18	18	< 18	18	< 8.7	8.7	< 14	14		
Benzene	60	4,800	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Bromobenzene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Bromochloromethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Bromodichloromethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Bromoform			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Bromomethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Carbon Disulfide			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Carbon tetrachloride	760	2,400	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Chlorobenzene	1,100	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Chloroethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Chloroform	370	49,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Chloromethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
cis-1,2-Dichloroethene	250	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
cis-1,3-Dichloropropene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Dibromochloromethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Dibromomethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Dichlorodifluoromethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Ethylbenzene	1,000	41,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Hexachlorobutadiene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Isopropylbenzene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
m&p-Xylenes	260	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 31	31	< 41	41	< 27	27	9.3	28	< 26	26	< 21	21		
Methyl t-butyl ether (MTBE)	930	100,000	< 10	10	< 14	14	< 9.0	9.0	< 9.2	9.2	< 8.7	8.7	< 6.9	6.9		
Methylene chloride	50	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Naphthalene	12,000	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
n-Butylbenzene	12,000	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
n-Propylbenzene	3,900	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
o-Xylene	260	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
p-Isopropyltoluene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
sec-Butylbenzene	11,000	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Styrene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
tert-Butyl alcohol			< 5.2	5.2	< 140	140	< 90	90	< 92	92	< 87	87	< 69	69		
tert-Butylbenzene	5,900	100,000	< 100	100	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Tetrachloroethene	1,300	19,000	< 5.2	5.2	1.7	6.9	250	290	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Tetrahydrofuran (THF)			< 10	10	< 14	14	< 9.0	9.0	2.6	9.2	< 8.7	8.7	< 6.9	6.9		
Toluene	700	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
trans-1,2-Dichloroethene	190	100,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
trans-1,3-Dichloropropene			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
trans-1,4-dichloro-2-butene			< 10	10	< 14	14	< 9.0	9.0	< 9.2	9.2	< 8.7	8.7	< 6.9	6.9		
Trichloroethene	470	21,000	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Trichlorofluoromethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Trichlorotrifluoroethane			< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		
Vinyl Chloride	20	900	< 5.2	5.2	< 6.9	6.9	< 4.5	4.5	< 4.6	4.6	< 4.3	4.3	< 3.4	3.4		

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results															
			Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate					
			EP59		EP32		EP14		EP57		EP8		EP1					
			3/31/2021		4/1/2021		4/6/2021		4/13/2021		5/12/2021		5/19/2021					
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg					
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL				
1,1,1,2-Tetrachloroethane			< 4.8	4.8	< 16	16	< 8.9	8.9	< 14	14	< 15	15	< 5.4	5.4				
1,1,1-Trichloroethane	680	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,1,2,2-Tetrachloroethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,1,2-Trichloroethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,1-Dichloroethane	270	26,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,1-Dichloroethene	330	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,1-Dichloropropene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2,3-Trichlorobenzene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2,3-Trichloropropane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2,4-Trichlorobenzene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2,4-Trimethylbenzene	3,600	52,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2-Dibromo-3-chloropropane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2-Dibromoethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2-Dichlorobenzene	1,100	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2-Dichloroethane	20	3,100	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,2-Dichloropropane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,3,5-Trimethylbenzene	8,400	52,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,3-Dichlorobenzene	2,400	4,900	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,3-Dichloropropane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,4-Dichlorobenzene	1,800	13,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
1,4-Dioxane			-	-	< 60	60	< 33	33	< 52	52	< 56	56	< 72	72				
2,2-Dichloropropane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
2-Chlorotoluene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
2-Hexanone (Methyl Butyl Ketone)			< 24	24	< 20	20	< 11	11	< 17	17	< 19	19	< 27	27				
2-Isopropyltoluene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
4-Chlorotoluene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
4-Methyl-2-Pentanone			< 24	24	< 20	20	< 11	11	< 17	17	< 19	19	< 27	27				
Acetone	50	100,000	< 24	24	< 20	20	4	11	9.6	17	< 19	19	14	27				
Acrolein			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Acrylonitrile			< 9.5	9.5	< 8.0	8.0	< 4.5	4.5	< 6.9	6.9	< 7.4	7.4	< 22	22				
Benzene	60	4,800	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Bromobenzene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Bromochloromethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Bromodichloromethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Bromoform			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Bromomethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Carbon Disulfide			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Carbon tetrachloride	760	2,400	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Chlorobenzene	1,100	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Chloroethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Chloroform	370	49,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Chloromethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
cis-1,2-Dichloroethene	250	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
cis-1,3-Dichloropropene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Dibromochloromethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Dibromomethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Dichlorodifluoromethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Ethylbenzene	1,000	41,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Hexachlorobutadiene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Isopropylbenzene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
m&p-Xylenes	260	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Methyl Ethyl Ketone (2-Butanone)	120	100,000	7.5	29	< 24	24	7.4	13	5.6	21	< 22	22	20	32				
Methyl t-butyl ether (MTBE)	930	100,000	< 9.5	9.5	< 8.0	8.0	< 4.5	4.5	< 6.9	6.9	< 7.4	7.4	< 11	11				
Methylene chloride	50	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Naphthalene	12,000	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
n-Butylbenzene	12,000	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
n-Propylbenzene	3,900	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
o-Xylene	260	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
p-Isopropyltoluene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
sec-Butylbenzene	11,000	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Styrene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
tert-Butyl alcohol			< 4.8	4.8	< 4.0	4.0	< 4.5	4.5	< 6.9	6.9	< 7.4	7.4	< 110	110				
tert-Butylbenzene	5,900	100,000	< 9.5	9.5	< 8.0	8.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Tetrachloroethene	1,300	19,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Tetrahydrofuran (THF)			< 9.5	9.5	< 8.0	8.0	2.2	4.5	2	6.9	< 7.4	7.4	13	11				
Toluene	700	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
trans-1,2-Dichloroethene	190	100,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
trans-1,3-Dichloropropene			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
trans-1,4-dichloro-2-butene			< 9.5	9.5	< 8.0	8.0	< 4.5	4.5	< 6.9	6.9	< 7.4	7.4	< 11	11				
Trichloroethene	470	21,000	< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Trichlorofluoromethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5	3.5	< 3.7	3.7	< 5.4	5.4				
Trichlorotrifluoroethane			< 4.8	4.8	< 4.0	4.0	< 2.2	2.2	< 3.5</									

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results													
			Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate			
			EP4		EP4A		EP10		EP9A		EP9		EP22			
			5/24/2021		5/27/2021		6/1/2021		6/4/2021		6/9/2021		6/10/2021			
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg			
	µg/Kg		µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
1,1,1,2-Tetrachloroethane			< 1200	1,200	< 17	17	< 17	17	< 17	17	< 3.2	3.2	< 4.8	4.8		
1,1,1-Trichloroethane	680	100,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,1,2,2-Tetrachloroethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,1,2-Trichloroethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,1-Dichloroethane	270	26,000	< 270	270	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,1-Dichloroethene	330	100,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,1-Dichloropropene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2,3-Trichlorobenzene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2,3-Trichloropropane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2,4-Trichlorobenzene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2,4-Trimethylbenzene	3,600	52,000	1,800	290	2.1	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2-Dibromo-3-chloropropane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2-Dibromoethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2-Dichlorobenzene	1,100	100,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2-Dichloroethane	20	3,100	< 20	20	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,2-Dichloropropane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,3,5-Trimethylbenzene	8,400	52,000	460	290	0.83	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,3-Dichlorobenzene	2,400	4,900	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,3-Dichloropropane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,4-Dichlorobenzene	1,800	13,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
1,4-Dioxane			< 74	74	< 62	62	< 63	63	< 65	65	< 48	48	< 73	73		
2,2-Dichloropropane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
2-Chlorotoluene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
2-Hexanone (Methyl Butyl Ketone)			< 1500	1,500	< 21	21	< 21	21	< 22	22	< 16	16	< 24	24		
2-Isopropyltoluene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
4-Chlorotoluene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
4-Methyl-2-Pentanone			< 1500	1,500	< 21	21	< 21	21	< 22	22	< 16	16	< 24	24		
Acetone	50	100,000	< 50	50	23	21	23	21	6.5	22	17	16	6.7	24		
Acrolein			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Acrylonitrile			< 580	580	< 8.3	8.3	< 17	17	< 17	17	< 13	13	< 19	19		
Benzene	60	4,800	< 60	60	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Bromobenzene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Bromochloromethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Bromodichloromethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Bromoform			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Bromomethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Carbon Disulfide			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Carbon tetrachloride	760	2,400	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Chlorobenzene	1,100	100,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Chloroethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Chloroform	370	49,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Chloromethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
cis-1,2-Dichloroethene	250	100,000	< 250	250	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
cis-1,3-Dichloropropene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Dibromochloromethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Dibromomethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Dichlorodifluoromethane			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Ethylbenzene	1,000	41,000	230	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Hexachlorobutadiene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Isopropylbenzene			47	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
m&p-Xylenes	260	100,000	1,000	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 120	120	19	25	29	25	9.4	26	14	19	6.3	29		
Methyl t-butyl ether (MTBE)	930	100,000	< 580	580	< 8.3	8.3	< 8.4	8.4	< 8.6	8.6	< 6.4	6.4	< 9.7	9.7		
Methylene chloride	50	100,000	< 50	50	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Naphthalene	12,000	100,000	490	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
n-Butylbenzene	12,000	100,000	120	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
n-Propylbenzene	3,900	100,000	210	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
o-Xylene	260	100,000	370	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
p-Isopropyltoluene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
sec-Butylbenzene	11,000	100,000	38	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Styrene			< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
tert-Butyl alcohol			< 5800	5,800	< 83	83	< 84	84	< 86	86	< 64	64	< 97	97		
tert-Butylbenzene	5,900	100,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Tetrachloroethene	1,300	19,000	< 290	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
Tetrahydrofuran (THF)			< 580	580	9.3	8.3	14	8.4	5.8	8.6	19	8.4	7.5	9.7		
Toluene	700	100,000	89	290	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
trans-1,2-Dichloroethene	190	100,000	< 190	190	< 4.2	4.2	< 4.2	4.2	< 4.3	4.3	< 3.2	3.2	< 4.8	4.8		
trans-1,3-Dichloropropene			< 290	290	< 4.2	4.2	< 4.2									

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate	Soil Duplicate
			EP29	EP27	EP28	EP48	EP37	EP18						
			6/17/2021	6/21/2021	7/7/2021	7/20/2021	7/1/2021	7/27/2021						
			µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg						
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,1,1,1-Trichloroethane	680	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,1,2,2-Tetrachloroethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,1,2-Trichloroethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,1-Dichloroethane	270	26,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,1-Dichloroethene	330	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,1-Dichloropropene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2,3-Trichlorobenzene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2,3-Trichloropropene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2,4-Trichlorobenzene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2,4-Trimethylbenzene	3,600	52,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2-Dibromo-3-chloropropane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2-Dibromoethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2-Dichlorobenzene	1,100	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2-Dichloroethane	20	3,100	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,2-Dichloropropene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,3,5-Trimethylbenzene	8,400	52,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,3-Dichlorobenzene	2,400	4,900	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,3-Dichloropropene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,4-Dichlorobenzene	1,800	13,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
1,4-Dioxane			< 54	54	< 50	50	< 52	52	< 47	47	< 52	52	< 51	51
2,2-Dichloropropene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
2-Chlorotoluene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
2-Hexanone (Methyl Butyl Ketone)			< 18	18	< 17	17	< 17	17	< 16	16	< 17	17	< 17	17
2-Isopropyltoluene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
4-Chlorotoluene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
4-Methyl-2-Pentanone			< 18	18	< 17	17	< 17	17	< 16	16	< 17	17	< 17	17
Acetone	50	100,000	5.2	18	< 17	17	< 17	17	< 16	16	< 17	17	3.7	17
Acrolein			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Acrylonitrile			< 7.2	7.2	< 6.7	6.7	< 14	14	< 6.3	6.3	< 14	14	< 14	14
Benzene	60	4,800	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Bromobenzene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Bromochloromethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Bromodichloromethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Bromoform			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Bromomethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Carbon Disulfide			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Carbon tetrachloride	760	2,400	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Chlorobenzene	1,100	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Chloroethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Chloroform	370	49,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Chloromethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
cis-1,2-Dichloroethene	250	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
cis-1,3-Dichloropropene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Dibromochloromethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Dibromomethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Dichlorodifluoromethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Ethylbenzene	1,000	41,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Hexachlorobutadiene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Isopropylbenzene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
m&p-Xylenes	260	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Methyl Ethyl Ketone (2-Butanone)	120	100,000	5.1	22	< 20	20	< 21	21	< 19	19	< 21	21	< 20	20
Methyl t-butyl ether (MTBE)	930	100,000	< 7.2	7.2	< 6.7	6.7	< 6.9	6.9	< 6.3	6.3	< 6.9	6.9	< 6.8	6.8
Methylene chloride	50	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Naphthalene	12,000	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
n-Butylbenzene	12,000	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
n-Propylbenzene	3,900	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
o-Xylene	260	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
p-Isopropyltoluene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
sec-Butylbenzene	11,000	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Styrene			< 3.6	3.6	< 3.3	3.3	< 69	69	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
tert-Butyl alcohol			< 72	72	< 67	67	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
tert-Butylbenzene	5,900	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 63	63	< 69	69	< 68	68
Tetrachloroethene	1,300	19,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Tetrahydrofuran (THF)			12	7.2	9	6.7	9.2	6.9	12	6.3	8.4	6.9	11	6.8
Toluene	700	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
trans-1,2-Dichloroethene	190	100,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
trans-1,3-Dichloropropene			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
trans-1,4-dichloro-2-butene			< 7.2	7.2	< 6.7	6.7	< 6.9	6.9	< 6.3	6.3	< 6.9	6.9	< 6.8	6.8
Trichloroethene	470	21,000	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Trichlorofluoromethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Trichlorotrifluoroethane			< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4
Vinyl Chloride	20	900	< 3.6	3.6	< 3.3	3.3	< 3.4	3.4	< 3.2	3.2	< 3.5	3.5	< 3.4	3.4

Notes:

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

RL - Reporting Limit

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

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

Table 15
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results									
			Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP47		EP15		EP25		EP24		EP56	
			8/11/2021		9/27/2021		9/27/2021		9/28/2021		9/29/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 18	18	< 20	20	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,1,1-Trichloroethane	680	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,1,2,2-Tetrachloroethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,1,2-Trichloroethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,1-Dichloroethane	270	26,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,1-Dichloroethene	330	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,1-Dichloropropene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2,3-Trichlorobenzene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2,3-Trichloropropane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2,4-Trichlorobenzene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2,4-Trimethylbenzene	3,600	52,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2-Dibromo-3-chloropropane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2-Dibromoethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2-Dichlorobenzene	1,100	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2-Dichloroethane	20	3,100	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,2-Dichloropropane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,3,5-Trimethylbenzene	8,400	52,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,3-Dichlorobenzene	2,400	4,900	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,3-Dichloropropane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,4-Dichlorobenzene	1,800	13,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
1,4-Dioxane			< 67	67	< 74	74	< 97	97	< 89	89	< 66	66
2,2-Dichloropropane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
2-Chlorotoluene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
2-Hexanone (Methyl Butyl Ketone)			< 22	22	< 25	25	< 32	32	< 30	30	< 22	22
2-Isopropyltoluene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
4-Chlorotoluene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
4-Methyl-2-Pentanone			< 22	22	< 25	25	< 32	32	< 30	30	< 22	22
Acetone	50	100,000	< 22	22	< 25	25	< 32	32	< 30	30	< 22	22
Acrolein			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Acrylonitrile			< 9.0	9.0	< 20	20	< 26	26	< 24	24	< 8.8	8.8
Benzene	60	4,800	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Bromobenzene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Bromochloromethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Bromodichloromethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Bromoform			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Bromomethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Carbon Disulfide			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Carbon tetrachloride	760	2,400	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Chlorobenzene	1,100	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Chloroethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Chloroform	370	49,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Chloromethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
cis-1,2-Dichloroethene	250	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	1.4	4.4
cis-1,3-Dichloropropene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Dibromochloromethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Dibromomethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Dichlorodifluoromethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Ethylbenzene	1,000	41,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Hexachlorobutadiene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Isopropylbenzene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
m&p-Xylenes	260	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 27	27	< 30	30	< 39	39	< 36	36	< 26	26
Methyl t-butyl ether (MTBE)	930	100,000	< 9.0	9.0	< 9.9	9.9	< 13	13	< 12	12	< 8.8	8.8
Methylene chloride		100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Naphthalene	12,000	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
n-Butylbenzene	12,000	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
n-Propylbenzene	3,900	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
o-Xylene	260	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
p-Isopropyltoluene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
sec-Butylbenzene	11,000	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Styrene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
tert-Butyl alcohol			< 90	90	< 99	99	< 130	130	< 120	120	< 88	88
tert-Butylbenzene	5,900	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Tetrachloroethene	1,300	19,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	2.2	6.0	< 4.4	4.4
Tetrahydrofuran (THF)			< 9.0	9.0	< 9.9	9.9	< 13	13	< 12	12	< 8.8	8.8
Toluene	700	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
trans-1,2-Dichloroethene	190	100,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
trans-1,3-Dichloropropene			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
trans-1,4-dichloro-2-butene			< 9.0	9.0	< 9.9	9.9	< 13	13	< 12	12	< 8.8	8.8
Trichloroethene	470	21,000	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Trichlorofluoromethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Trichlorotrifluoroethane			< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	< 4.4	4.4
Vinyl Chloride	20	900	< 4.5	4.5	< 5.0	5.0	< 6.5	6.5	< 6.0	6.0	0.77	4.4

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EP2		EP3		EP4		EP5	
			5/19/2021		5/24/2021		5/24/2021		5/24/2021		5/24/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
1,2-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
1,3-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
1,4-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2,4-Dimethylphenol			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2,4-Dinitrophenol			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2-Chloronaphthalene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2-Chlorophenol			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2-Methylnaphthalene			< 260	260	< 250	250	< 260	260	440	260	< 240	240
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2-Nitroaniline			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
2-Nitrophenol			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
3&4-Methylphenol (m&p-creso)	330	100,000	< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
3-Nitroaniline			< 370	370	< 350	350	< 360	360	< 370	370	< 350	350
4,6-Dinitro-2-methylphenol			< 220	220	< 210	210	< 220	220	< 220	220	< 210	210
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
4-Chloroaniline			< 300	300	< 280	280	< 290	290	< 290	290	< 280	280
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
4-Nitroaniline			< 370	370	< 350	350	< 360	360	< 370	370	< 350	350
4-Nitrophenol			< 370	370	< 350	350	< 360	360	< 370	370	< 350	350
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 260	260	< 260	260	220	240
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Acetophenone			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Aniline			< 300	300	< 280	280	< 290	290	< 290	290	< 280	280
Anthracene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 260	260	440	240
Benz(a)anthracene	1,000	1,000	< 260	260	250	250	< 260	260	< 260	260	800	240
Benzidine			< 370	370	< 350	350	< 360	360	< 370	370	< 350	350
Benzo(a)pyrene	1,000	1,000	< 180	180	160	180	< 180	180	< 180	180	700	170
Benzo(b)fluoranthene	1,000	1,000	< 260	260	220	250	< 260	260	< 260	260	640	240
Benzo(ghi)perylene	100,000	100,000	< 260	260	140	250	< 260	260	< 260	260	440	240
Benzo(k)fluoranthene	800	3,900	< 260	260	170	250	< 260	260	< 260	260	530	240
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1700	1,700
Benzyl butyl phthalate			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Carbazole			< 180	180	< 180	180	< 180	180	< 180	180	160	170
Chrysene	1,000	3,900	< 260	260	420	250	< 260	260	< 260	260	790	240
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 260	260	< 260	260	130	240
Diethyl phthalate			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Dimethylphthalate			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Di-n-butylphthalate			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Di-n-octylphthalate			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Fluoranthene	100,000	100,000	< 260	260	3,100	250	< 260	260	< 260	260	2,100	240
Fluorene	30,000	100,000	< 260	260	< 250	250	< 260	260	< 260	260	160	240
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Hexachlorobutadiene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	130	250	< 260	260	< 260	260	480	240
Isophorone			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Naphthalene	12,000	100,000	< 260	260	< 250	250	< 260	260	260	260	< 240	240
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
N-Nitrosodimethylamine			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Pentachloronitrobenzene			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Pentachlorophenol	800	6,700	< 220	220	< 210	210	< 220	220	< 220	220	< 210	210
Phenanthrene	100,000	100,000	< 260	260	2,300	250	< 260	260	< 260	260	2,200	240
Phenol	330	100,000	< 260	260	< 250	250	< 260	260	< 260	260	< 240	240
Pyrene	100,000	100,000	< 260	260	1,500	250	< 260	260	< 260	260	1,800	240
Pyridine			< 260	260	< 250	250	< 260	260	< 260	260	< 240	240

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP7		EP8		EP9		EP10		EP11	
			5/12/2021		5/12/2021		6/1/2021		6/1/2021		6/1/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,2,4-Trichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,2-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,2-Diphenylhydrazine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,3-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,4-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4,5-Trichlorophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
2,4-Dichlorophenol			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
2,4-Dimethylphenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4-Dinitrophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
2,6-Dinitrotoluene			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
2-Chloronaphthalene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Chlorophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Methylnaphthalene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Nitroaniline			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Nitrophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
3&4-Methylphenol (m&p-creso)	330	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
3-Nitroaniline			< 370	370	< 370	370	< 380	380	< 370	370	< 390	390
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 230	230	< 220	220	< 230	230
4-Bromophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
4-Chloro-3-methylphenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
4-Chloroaniline			< 290	290	< 290	290	< 300	300	< 300	300	< 310	310
4-Chlorophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
4-Nitroaniline			< 370	370	< 370	370	< 380	380	< 370	370	< 390	390
4-Nitrophenol			< 370	370	< 370	370	< 380	380	< 370	370	< 390	390
Acenaphthene	20,000	100,000	180	260	< 260	260	< 260	260	< 260	260	< 270	270
Acenaphthylene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Acetophenone			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Aniline			< 290	290	< 290	290	< 300	300	< 300	300	< 310	310
Anthracene	100,000	100,000	360	260	< 260	260	< 260	260	< 260	260	< 270	270
Benz(a)anthracene	1,000	1,000	640	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzidine			< 370	370	< 370	370	< 380	380	< 370	370	< 390	390
Benzo(a)pyrene	1,000	1,000	590	180	< 180	180	< 190	190	< 180	180	< 190	190
Benzo(b)fluoranthene	1,000	1,000	490	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzo(ghi)perylene	100,000	100,000	290	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzo(k)fluoranthene	800	3,900	510	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1900	1,900
Benzyl butyl phthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Bis(2-chloroethoxy)methane			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
Bis(2-chloroisopropyl)ether			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Bis(2-ethylhexyl)phthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Carbazole			200	180	< 180	180	< 190	190	< 180	180	< 190	190
Chrysene	1,000	3,900	600	260	< 260	260	< 260	260	< 260	260	< 270	270
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
Dibenzofuran	7,000	59,000	140	260	< 260	260	< 260	260	< 260	260	< 270	270
Diethyl phthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Dimethylphthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Di-n-butylphthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Di-n-octylphthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Fluoranthene	100,000	100,000	1,400	260	< 260	260	200	260	< 260	260	< 270	270
Fluorene	30,000	100,000	230	260	< 260	260	< 260	260	< 260	260	< 270	270
Hexachlorobenzene			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
Hexachlorobutadiene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Hexachlorocyclopentadiene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Hexachloroethane			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	370	260	< 260	260	< 260	260	< 260	260	< 270	270
Isophorone			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
Naphthalene	12,000	100,000	130	260	< 260	260	< 260	260	< 260	260	< 270	270
Nitrobenzene			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
N-Nitrosodimethylamine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 190	190	< 180	180	< 190	190
N-Nitrosodiphenylamine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Pentachloronitrobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 230	230	< 220	220	< 230	230
Phenanthrene	100,000	100,000	1,300	260	< 260	260	110	260	< 260	260	< 270	270
Phenol	330	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Pyrene	100,000	100,000	1,100	260	< 260	260	210	260	< 260	260	< 270	270
Pyridine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results											
			EP13		EP14		EP14A		EP15		EP16		EP17	
			6/9/2021		4/6/2021		5/19/2021		9/27/2021		9/27/2021		9/27/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
1,2,4-Trichlorobenzene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
1,2-Dichlorobenzene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
1,2-Diphenylhydrazine			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
1,3-Dichlorobenzene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
1,4-Dichlorobenzene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2,4,5-Trichlorophenol			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
2,4-Dimethylphenol			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2,4-Dinitrophenol			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
2-Chloronaphthalene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2-Chlorophenol			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2-Methylnaphthalene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2-Nitroaniline			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
2-Nitrophenol			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
3&4-Methylphenol (m&p-creso)	330	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
3-Nitroaniline			< 360	360	< 370	370	< 350	350	< 410	410	< 410	410	< 360	360
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 210	210	< 240	240	< 240	240	< 220	220
4-Bromophenyl phenyl ether			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
4-Chloro-3-methylphenol			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
4-Chloroaniline			< 290	290	< 290	290	< 280	280	< 320	320	< 320	320	< 290	290
4-Chlorophenyl phenyl ether			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
4-Nitroaniline			< 360	360	< 370	370	< 350	350	< 410	410	< 410	410	< 360	360
4-Nitrophenol			< 360	360	< 370	370	< 350	350	< 410	410	< 410	410	< 360	360
Acenaphthene	20,000	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Acenaphthylene	100,000	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Acetophenone			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Aniline			< 290	290	< 290	290	< 280	280	< 320	320	< 320	320	< 290	290
Anthracene	100,000	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Benz(a)anthracene	1,000	1,000	160	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Benzidine			< 360	360	< 370	370	< 350	350	< 410	410	< 410	410	< 360	360
Benzo(a)pyrene	1,000	1,000	160	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
Benzo(b)fluoranthene	1,000	1,000	140	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Benzo(ghi)perylene	100,000	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Benzo(k)fluoranthene	800	3,900	140	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 2000	2,000	< 2000	2,000	< 1800	1,800
Benzyl butyl phthalate			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Bis(2-chloroethoxy)methane			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
Bis(2-chloroisopropyl)ether			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Bis(2-ethylhexyl)phthalate			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Carbazole			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
Chrysene	1,000	3,900	150	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
Dibenzofuran	7,000	59,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Diethyl phthalate			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Dimethylphthalate			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Di-n-butylphthalate			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Di-n-octylphthalate			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Fluoranthene	100,000	100,000	330	250	170	260	< 250	250	< 280	280	< 280	280	< 250	250
Fluorene	30,000	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
Hexachlorobutadiene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Hexachlorocyclopentadiene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	120	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Isophorone			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
Naphthalene	12,000	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
N-Nitrosodimethylamine			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 180	180	< 200	200	< 200	200	< 180	180
N-Nitrosodiphenylamine			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Pentachloronitrobenzene			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 210	210	< 240	240	< 240	240	< 220	220
Phenanthrene	100,000	100,000	220	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Phenol	330	100,000	< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250
Pyrene	100,000	100,000	290	250	160	260	< 250	250	< 280	280	< 280	280	< 250	250
Pyridine			< 250	250	< 260	260	< 250	250	< 280	280	< 280	280	< 250	250

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP18		EP19		EP20		EP21		EP22	
			7/27/2021		6/17/2021		6/17/2021		6/10/2021		6/10/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
1,2,4-Trichlorobenzene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
1,2-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
1,2-Diphenylhydrazine			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
1,3-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
1,4-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2,4,5-Trichlorophenol			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2,4,6-Trichlorophenol			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
2,4-Dichlorophenol			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
2,4-Dimethylphenol			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2,4-Dinitrophenol			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2,4-Dinitrotoluene			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
2,6-Dinitrotoluene			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
2-Chloronaphthalene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2-Chlorophenol			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2-Methylnaphthalene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2-Nitroaniline			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
2-Nitrophenol			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
3&4-Methylphenol (m&p-creso)	330	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
3,3'-Dichlorobenzidine			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
3-Nitroaniline			< 370	370	< 370	370	< 380	380	< 380	380	< 350	350
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 230	230	< 230	230	< 210	210
4-Bromophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
4-Chloro-3-methylphenol			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
4-Chloroaniline			< 300	300	< 300	300	< 300	300	< 300	300	< 280	280
4-Chlorophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
4-Nitroaniline			< 370	370	< 370	370	< 380	380	< 380	380	< 350	350
4-Nitrophenol			< 370	370	< 370	370	< 380	380	< 380	380	< 350	350
Acenaphthene	20,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Acenaphthylene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Acetophenone			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Aniline			< 300	300	< 300	300	< 300	300	< 300	300	< 280	280
Anthracene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Benz(a)anthracene	1,000	1,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Benzidine			< 370	370	< 370	370	< 380	380	< 380	380	< 350	350
Benzo(a)pyrene	1,000	1,000	< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
Benzo(b)fluoranthene	1,000	1,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Benzo(k)fluoranthene	800	3,900	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Benzoic acid			< 1900	1,900	< 1900	1,900	< 1900	1,900	< 1900	1,900	< 1700	1,700
Benzyl butyl phthalate			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Bis(2-chloroethoxy)methane			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Bis(2-chloroethyl)ether			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
Bis(2-chloroisopropyl)ether			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Bis(2-ethylhexyl)phthalate			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Carbazole			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
Chrysene	1,000	3,900	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Dibenz(a,h)anthracene	330	330	< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
Dibenzofuran	7,000	59,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Diethyl phthalate			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Dimethylphthalate			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Di-n-butylphthalate			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Di-n-octylphthalate			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Fluoranthene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Fluorene	30,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Hexachlorobenzene			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
Hexachlorobutadiene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Hexachlorocyclopentadiene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Hexachloroethane			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Isophorone			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
Naphthalene	12,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Nitrobenzene			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
N-Nitrosodimethylamine			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
N-Nitrosodi-n-propylamine			< 190	190	< 190	190	< 190	190	< 190	190	< 170	170
N-Nitrosodiphenylamine			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Pentachloronitrobenzene			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 230	230	< 230	230	< 210	210
Phenanthrene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Phenol	330	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Pyrene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 270	270	< 240	240
Pyridine			< 260	260	< 260	260	< 260	260	< 270	270	< 240	240

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP24		EP25		EP26		EP27		EP28	
			9/28/2021		9/27/2021		6/21/2021		6/21/2021		7/7/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
1,2-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
1,3-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
1,4-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dimethylphenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2,4-Dinitrophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2-Chloronaphthalene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2-Chlorophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2-Methylnaphthalene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2-Nitroaniline			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
2-Nitrophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
3&4-Methylphenol (m&p-creso)	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
3-Nitroaniline			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370
4,6-Dinitro-2-methylphenol			< 220	220	< 210	210	< 220	220	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
4-Chloroaniline			< 300	300	< 290	290	< 290	290	< 290	290	< 300	300
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
4-Nitroaniline			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370
4-Nitrophenol			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Acetophenone			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Aniline			< 300	300	< 290	290	< 290	290	< 290	290	< 300	300
Anthracene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Benz(a)anthracene	1,000	1,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Benzidine			< 370	370	< 360	360	< 360	360	< 360	360	< 370	370
Benzo(a)pyrene	1,000	1,000	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Benzo(k)fluoranthene	800	3,900	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1900	1,900
Benzyl butyl phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Carbazole			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Chrysene	1,000	3,900	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Diethyl phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Dimethylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Di-n-butylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Di-n-octylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Fluoranthene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Fluorene	30,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Hexachlorobutadiene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Isophorone			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Naphthalene	12,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodimethylamine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Pentachloronitrobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Pentachlorophenol	800	6,700	< 220	220	< 210	210	< 220	220	< 220	220	< 220	220
Phenanthrene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Phenol	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Pyrene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 260	260
Pyridine			< 260	260	< 250	250	< 250	250	< 250	250	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP30		EP31		EP32		EP33		EP34	
			3/29/2021		3/29/2021		4/1/2021		3/23/201		3/22/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
1,2,4-Trichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
1,2-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
1,2-Diphenylhydrazine			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
1,3-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
1,4-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2,4,5-Trichlorophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2,4-Dimethylphenol			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2,4-Dinitrophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
2-Chloronaphthalene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2-Chlorophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2-Methylnaphthalene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2-Nitroaniline			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
2-Nitrophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
3&4-Methylphenol (m&p-creso)	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
3-Nitroaniline			< 360	360	< 370	370	< 370	370	< 370	370	< 350	350
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 220	220	< 220	220	< 210	210
4-Bromophenyl phenyl ether			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
4-Chloro-3-methylphenol			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
4-Chloroaniline			< 290	290	< 290	290	< 290	290	< 290	290	< 280	280
4-Chlorophenyl phenyl ether			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
4-Nitroaniline			< 360	360	< 370	370	< 370	370	< 370	370	< 350	350
4-Nitrophenol			< 360	360	< 370	370	< 370	370	< 370	370	< 350	350
Acenaphthene	20,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Acenaphthylene	100,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Acetophenone			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Aniline			< 290	290	< 290	290	< 290	290	< 290	290	< 280	280
Anthracene	100,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Benz(a)anthracene	1,000	1,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Benzidine			< 360	360	< 370	370	< 370	370	< 370	370	< 350	350
Benzo(a)pyrene	1,000	1,000	< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Benzo(b)fluoranthene	1,000	1,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Benzo(ghi)perylene	100,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Benzo(k)fluoranthene	800	3,900	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1700	1,700
Benzyl butyl phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Bis(2-chloroethoxy)methane			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Bis(2-chloroisopropyl)ether			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Bis(2-ethylhexyl)phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Carbazole			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Chrysene	1,000	3,900	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Dibenzofuran	7,000	59,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Diethyl phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Dimethylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Di-n-butylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Di-n-octylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Fluoranthene	100,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Fluorene	30,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Hexachlorobutadiene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Hexachlorocyclopentadiene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Indeno(1,2,3-cd)pyrene	500	500	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Isophorone			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
Naphthalene	12,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
N-Nitrosodimethylamine			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 180	180	< 180	180	< 170	170
N-Nitrosodiphenylamine			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Pentachloronitrobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 220	220	< 220	220	< 210	210
Phenanthrene	100,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Phenol	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Pyrene	100,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 240	240
Pyridine			< 250	250	< 260	260	< 260	260	< 260	260	< 240	240

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

			Endpoint Soil Analytical Results											
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP36		EP37		EP38		EP39		EP40		EP41	
			9/27/2021		7/21/2021		7/20/2021		3/31/2021		3/30/2021		3/30/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
1,2,4-Trichlorobenzene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
1,2-Dichlorobenzene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
1,2-Diphenylhydrazine			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
1,3-Dichlorobenzene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
1,4-Dichlorobenzene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2,4,5-Trichlorophenol			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2,4,6-Trichlorophenol			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
2,4-Dichlorophenol			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
2,4-Dimethylphenol			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2,4-Dinitrophenol			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2,4-Dinitrotoluene			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
2,6-Dinitrotoluene			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
2-Chloronaphthalene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2-Chlorophenol			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2-Methylnaphthalene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2-Nitroaniline			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
2-Nitrophenol			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
3&4-Methylphenol (m&p-creso	330	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
3,3'-Dichlorobenzidine			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
3-Nitroaniline			< 400	400	< 360	360	< 360	360	< 380	380	< 370	370	< 370	370
4,6-Dinitro-2-methylphenol			< 240	240	< 220	220	< 210	210	< 230	230	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
4-Chloro-3-methylphenol			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
4-Chloroaniline			< 320	320	< 290	290	< 290	290	< 310	310	< 300	300	< 300	300
4-Chlorophenyl phenyl ether			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
4-Nitroaniline			< 400	400	< 360	360	< 360	360	< 380	380	< 370	370	< 370	370
4-Nitrophenol			< 400	400	< 360	360	< 360	360	< 380	380	< 370	370	< 370	370
Acenaphthene	20,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Acenaphthylene	100,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Acetophenone			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Aniline			< 320	320	< 290	290	< 290	290	< 310	310	< 300	300	< 300	300
Anthracene	100,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Benz(a)anthracene	1,000	1,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Benzidine			< 400	400	< 360	360	< 360	360	< 380	380	< 370	370	< 370	370
Benzo(a)pyrene	1,000	1,000	< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Benzo(k)fluoranthene	800	3,900	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Benzoic acid			< 2000	2,000	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1900	1,900	< 1900	1,900
Benzyl butyl phthalate			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Bis(2-chloroethoxy)methane			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Bis(2-chloroethyl)ether			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
Bis(2-chloroisopropyl)ether			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Bis(2-ethylhexyl)phthalate			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Carbazole			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
Chrysene	1,000	3,900	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Dibenz(a,h)anthracene	330	330	< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
Dibenzofuran	7,000	59,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Diethyl phthalate			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Dimethylphthalate			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Di-n-butylphthalate			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Di-n-octylphthalate			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Fluoranthene	100,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	150	260
Fluorene	30,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Hexachlorobenzene			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
Hexachlorobutadiene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Hexachlorocyclopentadiene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Hexachloroethane			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Isophorone			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
Naphthalene	12,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Nitrobenzene			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
N-Nitrosodimethylamine			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
N-Nitrosodi-n-propylamine			< 200	200	< 180	180	< 180	180	< 190	190	< 190	190	< 190	190
N-Nitrosodiphenylamine			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Pentachloronitrobenzene			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Pentachlorophenol	800	6,700	< 240	240	< 220	220	< 210	210	< 230	230	< 220	220	< 220	220
Phenanthrene	100,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Phenol	330	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260
Pyrene	100,000	100,000	< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	140	260
Pyridine			< 280	280	< 260	260	< 250	250	< 270	270	< 260	260	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

			Endpoint Soil Analytical Results											
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP42		EP43		EP44		EP45		EP47		EP48	
			3/23/201		3/23/201		3/23/201		3/23/201		8/11/2021		7/20/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
1,2,4-Trichlorobenzene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
1,2-Dichlorobenzene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
1,2-Diphenylhydrazine			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
1,3-Dichlorobenzene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
1,4-Dichlorobenzene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2,4,5-Trichlorophenol			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2,4,6-Trichlorophenol			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
2,4-Dichlorophenol			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
2,4-Dimethylphenol			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2,4-Dinitrophenol			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2,4-Dinitrotoluene			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
2,6-Dinitrotoluene			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
2-Chloronaphthalene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2-Chlorophenol			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2-Methylnaphthalene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2-Nitroaniline			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
2-Nitrophenol			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
3&4-Methylphenol (m&p-creso	330	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
3,3'-Dichlorobenzidine			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
3-Nitroaniline			< 400	400	< 350	350	< 360	360	< 350	350	< 370	370	< 370	370
4,6-Dinitro-2-methylphenol			< 240	240	< 210	210	< 210	210	< 210	210	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
4-Chloro-3-methylphenol			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
4-Chloroaniline			< 320	320	< 280	280	< 290	290	< 280	280	< 300	300	< 290	290
4-Chlorophenyl phenyl ether			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
4-Nitroaniline			< 400	400	< 350	350	< 360	360	< 350	350	< 370	370	< 370	370
4-Nitrophenol			< 400	400	< 350	350	< 360	360	< 350	350	< 370	370	< 370	370
Acenaphthene	20,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Acenaphthylene	100,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Acetophenone			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Aniline			< 320	320	< 280	280	< 290	290	< 280	280	< 300	300	< 290	290
Anthracene	100,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Benz(a)anthracene	1,000	1,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Benzidine			< 400	400	< 350	350	< 360	360	< 350	350	< 370	370	< 370	370
Benzo(a)pyrene	1,000	1,000	< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
Benzo(b)fluoranthene	1,000	1,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Benzo(k)fluoranthene	800	3,900	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Benzoic acid			< 2000	2,000	< 1700	1,700	< 1800	1,800	< 1700	1,700	< 1900	1,900	< 1800	1,800
Benzyl butyl phthalate			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Bis(2-chloroethoxy)methane			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Bis(2-chloroethyl)ether			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
Bis(2-chloroisopropyl)ether			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Bis(2-ethylhexyl)phthalate			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Carbazole			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
Chrysene	1,000	3,900	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Dibenz(a,h)anthracene	330	330	< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
Dibenzofuran	7,000	59,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Diethyl phthalate			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Dimethylphthalate			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Di-n-butylphthalate			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Di-n-octylphthalate			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Fluoranthene	100,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Fluorene	30,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Hexachlorobenzene			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
Hexachlorobutadiene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Hexachlorocyclopentadiene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Hexachloroethane			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Isophorone			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
Naphthalene	12,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Nitrobenzene			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
N-Nitrosodimethylamine			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
N-Nitrosodi-n-propylamine			< 200	200	< 170	170	< 180	180	< 170	170	< 190	190	< 180	180
N-Nitrosodiphenylamine			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Pentachloronitrobenzene			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Pentachlorophenol	800	6,700	< 240	240	< 210	210	< 210	210	< 210	210	< 220	220	< 220	220
Phenanthrene	100,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Phenol	330	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Pyrene	100,000	100,000	< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260
Pyridine			< 280	280	< 240	240	< 250	250	< 240	240	< 260	260	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP49		EP50		EP51		EP52		EP53	
			3/31/2021		3/31/2021		3/31/2021		3/23/2021		3/23/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
1,3-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
1,4-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
2,4-Dichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
2,4-Dimethylphenol			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dinitrophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2,4-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
2,6-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
2-Chloronaphthalene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2-Chlorophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2-Methylnaphthalene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2-Nitroaniline			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
2-Nitrophenol			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
3&4-Methylphenol (m&p-creso)	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
3-Nitroaniline			< 360	360	< 360	360	< 360	360	< 350	350	< 360	360
4,6-Dinitro-2-methylphenol			< 230	230	< 210	210	< 220	220	< 210	210	< 220	220
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
4-Chloroaniline			< 300	300	< 280	280	< 290	290	< 280	280	< 290	290
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
4-Nitroaniline			< 360	360	< 360	360	< 360	360	< 350	350	< 360	360
4-Nitrophenol			< 360	360	< 360	360	< 360	360	< 350	350	< 360	360
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Acetophenone			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Aniline			< 300	300	< 280	280	< 290	290	< 280	280	< 290	290
Anthracene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Benz(a)anthracene	1,000	1,000	200	260	< 250	250	130	250	< 250	250	< 250	250
Benzidine			< 360	360	< 360	360	< 360	360	< 350	350	< 360	360
Benzo(a)pyrene	1,000	1,000	200	190	< 180	180	160	180	< 180	180	< 180	180
Benzo(b)fluoranthene	1,000	1,000	170	260	< 250	250	130	250	< 250	250	< 250	250
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Benzo(k)fluoranthene	800	3,900	140	260	< 250	250	130	250	< 250	250	< 250	250
Benzoic acid			< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
Benzyl butyl phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Carbazole			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
Chrysene	1,000	3,900	200	260	< 250	250	130	250	< 250	250	< 250	250
Dibenz(a,h)anthracene	330	330	< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Diethyl phthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Dimethylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-butylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Di-n-octylphthalate			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Fluoranthene	100,000	100,000	410	260	< 250	250	170	250	< 250	250	< 250	250
Fluorene	30,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Hexachlorobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
Hexachlorobutadiene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Hexachloroethane			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Isophorone			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
Naphthalene	12,000	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Nitrobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
N-Nitrosodimethylamine			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 180	180	< 180	180	< 180	180
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Pentachloronitrobenzene			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Pentachlorophenol	800	6,700	< 230	230	< 210	210	< 220	220	< 210	210	< 220	220
Phenanthrene	100,000	100,000	280	260	< 250	250	< 250	250	< 250	250	< 250	250
Phenol	330	100,000	< 260	260	< 250	250	< 250	250	< 250	250	< 250	250
Pyrene	100,000	100,000	360	260	< 250	250	160	250	< 250	250	< 250	250
Pyridine			< 260	260	< 250	250	< 250	250	< 250	250	< 250	250

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

			Endpoint Soil Analytical Results											
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP55		EP56		EP57		EP58		EP59		EP60	
			3/22/2021		9/29/2021		4/9/2021		3/31/2021		3/31/2021		3/31/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
1,2,4-Trichlorobenzene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
1,2-Dichlorobenzene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
1,2-Diphenylhydrazine			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
1,3-Dichlorobenzene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
1,4-Dichlorobenzene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2,4,5-Trichlorophenol			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2,4,6-Trichlorophenol			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
2,4-Dichlorophenol			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
2,4-Dimethylphenol			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2,4-Dinitrophenol			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2,4-Dinitrotoluene			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
2,6-Dinitrotoluene			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
2-Chloronaphthalene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2-Chlorophenol			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2-Methylnaphthalene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2-Nitroaniline			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
2-Nitrophenol			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
3&4-Methylphenol (m&p-creso	330	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
3,3'-Dichlorobenzidine			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
3-Nitroaniline			< 350	350	< 390	390	< 360	360	< 370	370	< 360	360	< 370	370
4,6-Dinitro-2-methylphenol			< 210	210	< 230	230	< 220	220	< 220	220	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
4-Chloro-3-methylphenol			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
4-Chloroaniline			< 280	280	< 310	310	< 290	290	< 290	290	< 290	290	< 290	290
4-Chlorophenyl phenyl ether			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
4-Nitroaniline			< 350	350	< 390	390	< 360	360	< 370	370	< 360	360	< 370	370
4-Nitrophenol			< 350	350	< 390	390	< 360	360	< 370	370	< 360	360	< 370	370
Acenaphthene	20,000	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Acenaphthylene	100,000	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Acetophenone			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Aniline			< 280	280	< 310	310	< 290	290	< 290	290	< 290	290	< 290	290
Anthracene	100,000	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Benz(a)anthracene	1,000	1,000	< 240	240	130	270	< 250	250	< 260	260	< 250	250	< 260	260
Benzidine			< 350	350	< 390	390	< 360	360	< 370	370	< 360	360	< 370	370
Benzo(a)pyrene	1,000	1,000	< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
Benzo(b)fluoranthene	1,000	1,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Benzo(k)fluoranthene	800	3,900	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Benzoic acid			< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800
Benzyl butyl phthalate			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Bis(2-chloroethoxy)methane			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Bis(2-chloroethyl)ether			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
Bis(2-chloroisopropyl)ether			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Bis(2-ethylhexyl)phthalate			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Carbazole			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
Chrysene	1,000	3,900	< 240	240	130	270	< 250	250	< 260	260	< 250	250	< 260	260
Dibenz(a,h)anthracene	330	330	< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
Dibenzofuran	7,000	59,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Diethyl phthalate			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Dimethylphthalate			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Di-n-butylphthalate			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Di-n-octylphthalate			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Fluoranthene	100,000	100,000	< 240	240	280	270	< 250	250	< 260	260	120	250	< 260	260
Fluorene	30,000	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Hexachlorobenzene			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
Hexachlorobutadiene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Hexachlorocyclopentadiene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Hexachloroethane			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Isophorone			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
Naphthalene	12,000	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Nitrobenzene			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
N-Nitrosodimethylamine			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
N-Nitrosodi-n-propylamine			< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 180	180
N-Nitrosodiphenylamine			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Pentachloronitrobenzene			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Pentachlorophenol	800	6,700	< 210	210	< 230	230	< 220	220	< 220	220	< 220	220	< 220	220
Phenanthrene	100,000	100,000	< 240	240	160	270	< 250	250	< 260	260	< 250	250	< 260	260
Phenol	330	100,000	< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260
Pyrene	100,000	100,000	< 240	240	250	270	< 250	250	< 260	260	< 250	250	< 260	260
Pyridine			< 240	240	< 270	270	< 250	250	< 260	260	< 250	250	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP61		EP62		EP62A		EP63		EP64	
			3/23/2021		3/22/2021		3/31/2021		3/22/2021		3/22/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
1,2-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
1,3-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
1,4-Dichlorobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2,4,6-Trichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
2,4-Dichlorophenol			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
2,4-Dimethylphenol			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2,4-Dinitrophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2,4-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
2,6-Dinitrotoluene			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
2-Chloronaphthalene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2-Chlorophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2-Methylnaphthalene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2-Nitroaniline			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
2-Nitrophenol			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
3&4-Methylphenol (m&p-creso)	330	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
3,3'-Dichlorobenzidine			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
3-Nitroaniline			< 370	370	< 350	350	< 370	370	< 360	360	< 340	340
4,6-Dinitro-2-methylphenol			< 220	220	< 210	210	< 220	220	< 210	210	< 210	210
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
4-Chloroaniline			< 300	300	< 280	280	< 290	290	< 290	290	< 280	280
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
4-Nitroaniline			< 370	370	< 350	350	< 370	370	< 360	360	< 340	340
4-Nitrophenol			< 370	370	< 350	350	< 370	370	< 360	360	< 340	340
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Acetophenone			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Aniline			< 300	300	< 280	280	< 290	290	< 290	290	< 280	280
Anthracene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Benz(a)anthracene	1,000	1,000	< 260	260	140	250	< 260	260	< 250	250	< 240	240
Benzidine			< 370	370	< 350	350	< 370	370	< 360	360	< 340	340
Benzo(a)pyrene	1,000	1,000	< 190	190	180	180	< 180	180	< 180	180	< 170	170
Benzo(b)fluoranthene	1,000	1,000	< 260	260	140	250	< 260	260	< 250	250	< 240	240
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Benzo(k)fluoranthene	800	3,900	< 260	260	150	250	< 260	260	< 250	250	< 240	240
Benzoic acid			< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1700	1,700
Benzyl butyl phthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Bis(2-chloroethyl)ether			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Carbazole			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
Chrysene	1,000	3,900	< 260	260	130	250	< 260	260	< 250	250	< 240	240
Dibenz(a,h)anthracene	330	330	< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Diethyl phthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Dimethylphthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Di-n-butylphthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Di-n-octylphthalate			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Fluoranthene	100,000	100,000	< 260	260	180	250	< 260	260	< 250	250	< 240	240
Fluorene	30,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Hexachlorobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
Hexachlorobutadiene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Hexachloroethane			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	130	250	< 260	260	< 250	250	< 240	240
Isophorone			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
Naphthalene	12,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Nitrobenzene			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
N-Nitrosodimethylamine			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
N-Nitrosodi-n-propylamine			< 190	190	< 180	180	< 180	180	< 180	180	< 170	170
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Pentachloronitrobenzene			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Pentachlorophenol	800	6,700	< 220	220	< 210	210	< 220	220	< 210	210	< 210	210
Phenanthrene	100,000	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Phenol	330	100,000	< 260	260	< 250	250	< 260	260	< 250	250	< 240	240
Pyrene	100,000	100,000	< 260	260	180	250	< 260	260	< 250	250	< 240	240
Pyridine			< 260	260	< 250	250	< 260	260	< 250	250	< 240	240

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP67		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP42		EP30		EP41		EP59		EP32	
			9/28/2021		3/23/201		3/29/2021		3/30/2021		3/31/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
1,2,4-Trichlorobenzene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
1,2-Dichlorobenzene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
1,2-Diphenylhydrazine			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
1,3-Dichlorobenzene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
1,4-Dichlorobenzene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2,4,5-Trichlorophenol			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2,4,6-Trichlorophenol			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
2,4-Dichlorophenol			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
2,4-Dimethylphenol			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2,4-Dinitrophenol			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2,4-Dinitrotoluene			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
2,6-Dinitrotoluene			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
2-Chloronaphthalene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2-Chlorophenol			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2-Methylnaphthalene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2-Nitroaniline			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
2-Nitrophenol			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
3&4-Methylphenol (m&p-creso	330	100,000	< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
3,3'-Dichlorobenzidine			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
3-Nitroaniline			< 360	360	< 430	430	< 360	360	< 370	370	< 380	380
4,6-Dinitro-2-methylphenol			< 220	220	< 260	260	< 220	220	< 220	220	< 230	230
4-Bromophenyl phenyl ether			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
4-Chloro-3-methylphenol			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
4-Chloroaniline			< 290	290	< 340	340	< 290	290	< 290	290	< 300	300
4-Chlorophenyl phenyl ether			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
4-Nitroaniline			< 360	360	< 430	430	< 360	360	< 370	370	< 380	380
4-Nitrophenol			< 360	360	< 430	430	< 360	360	< 370	370	< 380	380
Acenaphthene	20,000	100,000	< 250	250	170	300	< 250	250	< 260	260	< 260	260
Acenaphthylene	100,000	100,000	< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Acetophenone			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Aniline			< 290	290	< 340	340	< 290	290	< 290	290	< 300	300
Anthracene	100,000	100,000	< 250	250	290	300	< 250	250	< 260	260	< 260	260
Benz(a)anthracene	1,000	1,000	< 250	250	680	300	< 250	250	< 260	260	< 260	260
Benzidine			< 360	360	< 430	430	< 360	360	< 370	370	< 380	380
Benzo(a)pyrene	1,000	1,000	< 180	180	650	210	< 180	180	< 180	180	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 250	250	560	300	< 250	250	< 260	260	< 260	260
Benzo(ghi)perylene	100,000	100,000	< 250	250	370	300	< 250	250	< 260	260	< 260	260
Benzo(k)fluoranthene	800	3,900	< 250	250	450	300	< 250	250	< 260	260	< 260	260
Benzoic acid			< 1800	1,800	< 2100	2,100	< 1800	1,800	< 1800	1,800	< 1900	1,900
Benzyl butyl phthalate			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Bis(2-chloroethoxy)methane			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Bis(2-chloroethyl)ether			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
Bis(2-chloroisopropyl)ether			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Bis(2-ethylhexyl)phthalate			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Carbazole			< 180	180	200	210	< 180	180	< 180	180	< 190	190
Chrysene	1,000	3,900	< 250	250	710	300	< 250	250	< 260	260	< 260	260
Dibenz(a,h)anthracene	330	330	< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
Dibenzofuran	7,000	59,000	< 250	250	180	300	< 250	250	< 260	260	< 260	260
Diethyl phthalate			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Dimethylphthalate			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Di-n-butylphthalate			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Di-n-octylphthalate			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Fluoranthene	100,000	100,000	< 250	250	1,900	300	< 250	250	170	260	< 260	260
Fluorene	30,000	100,000	< 250	250	220	300	< 250	250	< 260	260	< 260	260
Hexachlorobenzene			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
Hexachlorobutadiene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Hexachlorocyclopentadiene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Hexachloroethane			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 250	250	400	300	< 250	250	< 260	260	< 260	260
Isophorone			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
Naphthalene	12,000	100,000	< 250	250	140	300	< 250	250	< 260	260	< 260	260
Nitrobenzene			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
N-Nitrosodimethylamine			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
N-Nitrosodi-n-propylamine			< 180	180	< 210	210	< 180	180	< 180	180	< 190	190
N-Nitrosodiphenylamine			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Pentachloronitrobenzene			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Pentachlorophenol	800	6,700	< 220	220	< 260	260	< 220	220	< 220	220	< 230	230
Phenanthrene	100,000	100,000	< 250	250	2,100	300	< 250	250	< 260	260	< 260	260
Phenol	330	100,000	< 250	250	< 300	300	< 250	250	< 260	260	< 260	260
Pyrene	100,000	100,000	< 250	250	1,400	300	< 250	250	150	260	< 260	260
Pyridine			< 250	250	< 300	300	< 250	250	< 260	260	< 260	260

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

			Endpoint Soil Analytical Results											
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP14		EP57		EP8		EP1		EP4		EP10	
			4/6/2021		4/9/2021		5/12/2021		5/19/2021		5/24/2021		6/1/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
1,2,4-Trichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
1,2-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
1,2-Diphenylhydrazine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
1,3-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
1,4-Dichlorobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2,4,5-Trichlorophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
2,4-Dimethylphenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2,4-Dinitrophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
2-Chloronaphthalene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2-Chlorophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2-Methylnaphthalene			< 250	250	< 260	260	< 260	260	< 260	260	380	260	< 250	250
2-Methylphenol (o-cresol)	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2-Nitroaniline			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
2-Nitrophenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
3&4-Methylphenol (m&p-creso	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
3-Nitroaniline			< 360	360	< 370	370	< 370	370	< 370	370	< 370	370	< 360	360
4,6-Dinitro-2-methylphenol			< 210	210	< 220	220	< 220	220	< 220	220	< 220	220	< 220	220
4-Bromophenyl phenyl ether			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
4-Chloro-3-methylphenol			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
4-Chloroaniline			< 290	290	< 290	290	< 290	290	< 300	300	< 300	300	< 290	290
4-Chlorophenyl phenyl ether			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
4-Nitroaniline			< 360	360	< 370	370	< 370	370	< 370	370	< 370	370	< 360	360
4-Nitrophenol			< 360	360	< 370	370	< 370	370	< 370	370	< 370	370	< 360	360
Acenaphthene	20,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Acenaphthylene	100,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Acetophenone			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Aniline			< 290	290	< 290	290	< 290	290	< 300	300	< 300	300	< 290	290
Anthracene	100,000	100,000	330	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Benz(a)anthracene	1,000	1,000	1,400	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Benztidine			< 360	360	< 370	370	< 370	370	< 370	370	< 370	370	< 360	360
Benzo(a)pyrene	1,000	1,000	1,300	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
Benzo(b)fluoranthene	1,000	1,000	1,300	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Benzo(ghi)perylene	100,000	100,000	740	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Benzo(k)fluoranthene	800	3,900	1,100	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1900	1,900	< 1800	1,800
Benzyl butyl phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Bis(2-chloroethoxy)methane			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
Bis(2-chloroisopropyl)ether			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Bis(2-ethylhexyl)phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Carbazole			380	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
Chrysene	1,000	3,900	1,500	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Dibenz(a,h)anthracene	330	330	220	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
Dibenzofuran	7,000	59,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Diethyl phthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Dimethylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Di-n-butylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Di-n-octylphthalate			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Fluoranthene	100,000	100,000	3,000	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Fluorene	30,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
Hexachlorobutadiene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Hexachlorocyclopentadiene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
Indeno(1,2,3-cd)pyrene	500	500	850	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Isophorone			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
Naphthalene	12,000	100,000	< 250	250	< 260	260	< 260	260	< 260	260	240	260	< 250	250
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
N-Nitrosodimethylamine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190	< 180	180
N-Nitrosodiphenylamine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Pentachloronitrobenzene			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Pentachlorophenol	800	6,700	< 210	210	< 220	220	< 220	220	< 220	220	< 220	220	< 220	220
Phenanthrene	100,000	100,000	2,000	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Phenol	330	100,000	< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Pyrene	100,000	100,000	2,400	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250
Pyridine			< 250	250	< 260	260	< 260	260	< 260	260	< 260	260	< 250	250

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

Endpoint Soil Analytical Results												
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP9		EP22		EP29		EP27		EP48	
			6/9/2021		6/10/2021		6/17/2021		6/21/2021		7/20/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
1,2-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
1,3-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
1,4-Dichlorobenzene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,4-Dimethylphenol			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2,4-Dinitrophenol			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
2-Chloronaphthalene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2-Chlorophenol			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2-Methylnaphthalene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2-Nitroaniline			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
2-Nitrophenol			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
3&4-Methylphenol (m&p-creso	330	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
3-Nitroaniline			< 370	370	< 360	360	< 360	360	< 370	370	< 380	380
4,6-Dinitro-2-methylphenol			< 220	220	< 210	210	< 220	220	< 220	220	< 230	230
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
4-Chloroaniline			< 290	290	< 280	280	< 290	290	< 290	290	< 300	300
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
4-Nitroaniline			< 370	370	< 360	360	< 360	360	< 370	370	< 380	380
4-Nitrophenol			< 370	370	< 360	360	< 360	360	< 370	370	< 380	380
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Acetophenone			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Aniline			< 290	290	< 280	280	< 290	290	< 290	290	< 300	300
Anthracene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Benz(a)anthracene	1,000	1,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Benzidine			< 370	370	< 360	360	< 360	360	< 370	370	< 380	380
Benzo(a)pyrene	1,000	1,000	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Benzo(k)fluoranthene	800	3,900	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1900	1,900
Benzyl butyl phthalate			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Bis(2-ethylhexyl)phthalate			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Carbazole			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Chrysene	1,000	3,900	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Diethyl phthalate			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Dimethylphthalate			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Di-n-butylphthalate			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Di-n-octylphthalate			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Fluoranthene	100,000	100,000	< 260	260	< 250	250	200	250	< 260	260	< 270	270
Fluorene	30,000	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Hexachlorobutadiene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Isophorone			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
Naphthalene	12,000	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodimethylamine			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 180	180	< 180	180	< 190	190
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Pentachloronitrobenzene			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Pentachlorophenol	800	6,700	< 220	220	< 210	210	< 220	220	< 220	220	< 230	230
Phenanthrene	100,000	100,000	< 260	260	< 250	250	150	250	< 260	260	< 270	270
Phenol	330	100,000	< 260	260	< 250	250	< 250	250	< 260	260	< 270	270
Pyrene	100,000	100,000	< 260	260	< 250	250	180	250	< 260	260	< 270	270
Pyridine			< 260	260	< 250	250	< 250	250	< 260	260	< 270	270

Notes:

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

RL - Reporting Limit

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

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

Table 16
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results									
			Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP18		EP47		EP25		EP24		EP56	
			7/27/2021		8/11/2021		9/27/2021		9/28/2021		9/29/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,2,4-Trichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,2-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,2-Diphenylhydrazine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,3-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
1,4-Dichlorobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4,5-Trichlorophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4,6-Trichlorophenol			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
2,4-Dichlorophenol			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
2,4-Dimethylphenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4-Dinitrophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2,4-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
2,6-Dinitrotoluene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
2-Chloronaphthalene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Chlorophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Methylnaphthalene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Nitroaniline			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
2-Nitrophenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
3&4-Methylphenol (m&p-creso	330	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
3,3'-Dichlorobenzidine			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
3-Nitroaniline			< 370	370	< 370	370	< 370	370	< 370	370	< 390	390
4,6-Dinitro-2-methylphenol			< 220	220	< 220	220	< 220	220	< 220	220	< 230	230
4-Bromophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
4-Chloro-3-methylphenol			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
4-Chloroaniline			< 290	290	< 290	290	< 290	290	< 300	300	< 310	310
4-Chlorophenyl phenyl ether			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
4-Nitroaniline			< 370	370	< 370	370	< 370	370	< 370	370	< 390	390
4-Nitrophenol			< 370	370	< 370	370	< 370	370	< 370	370	< 390	390
Acenaphthene	20,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Acenaphthylene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Acetophenone			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Aniline			< 290	290	< 290	290	< 290	290	< 300	300	< 310	310
Anthracene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Benz(a)anthracene	1,000	1,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzidine			< 370	370	< 370	370	< 370	370	< 370	370	< 390	390
Benzo(a)pyrene	1,000	1,000	< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
Benzo(b)fluoranthene	1,000	1,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzo(k)fluoranthene	800	3,900	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1900	1,900
Benzyl butyl phthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Bis(2-chloroethoxy)methane			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Bis(2-chloroethyl)ether			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
Bis(2-chloroisopropyl)ether			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Bis(2-ethylhexyl)phthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Carbazole			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
Chrysene	1,000	3,900	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Dibenz(a,h)anthracene	330	330	< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
Dibenzofuran	7,000	59,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Diethyl phthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Dimethylphthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Di-n-butylphthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Di-n-octylphthalate			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Fluoranthene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Fluorene	30,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Hexachlorobenzene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
Hexachlorobutadiene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Hexachlorocyclopentadiene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Hexachloroethane			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Isophorone			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
Naphthalene	12,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Nitrobenzene			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
N-Nitrosodimethylamine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
N-Nitrosodi-n-propylamine			< 180	180	< 180	180	< 180	180	< 190	190	< 190	190
N-Nitrosodiphenylamine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Pentachloronitrobenzene			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Pentachlorophenol	800	6,700	< 220	220	< 220	220	< 220	220	< 220	220	< 230	230
Phenanthrene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Phenol	330	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Pyrene	100,000	100,000	< 260	260	< 260	260	< 260	260	< 260	260	< 270	270
Pyridine			< 260	260	< 260	260	< 260	260	< 260	260	< 270	270

Notes:

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

RL - Reporting Limit

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EP2		EP3		EP4		EP5		EP6		EP7		EP8		EP9		EP10	
			5/19/2021		5/24/2021		5/24/2021		5/24/2021		5/24/2021		5/19/2021		5/12/2021		5/12/2021		6/1/2021		6/1/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4' -DDE	3.3	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4' -DDT	3.3	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	a-BHC	20	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	a-Chlordane		< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6
	Alachlor		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aldrin	5	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6
	b-BHC	36	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Chlordane	94	< 37	37	< 36	36	< 37	37	< 37	37	< 35	35	< 36	36	< 37	37	< 36	36	< 37	37	< 36	36
	d-BHC	40	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Dieldrin	5	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6
	Endosulfan I	2,400	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Endosulfan II	2,400	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Endosulfan sulfate	2,400	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Endrin	14	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Endrin aldehyde		< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Endrin ketone		< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	g-BHC		< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4
	g-Chlordane		< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.5	3.5	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6
	Heptachlor	42	< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Heptachlor epoxide		< 7.4	7.4	< 7.1	7.1	< 7.3	7.3	< 7.4	7.4	< 7.0	7.0	< 7.2	7.2	< 7.4	7.4	< 7.3	7.3	< 7.4	7.4	< 7.2	7.2
	Methoxychlor		< 37	37	< 36	36	< 37	37	< 37	37	< 35	35	< 36	36	< 37	37	< 36	36	< 37	37	< 36	36
	Toxaphene		< 150	150	< 140	140	< 150	150	< 150	150	< 140	140	< 140	140	< 150	150	< 150	150	< 150	150	< 140	140
PCBs	PCB-1016	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1221	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1232	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1242	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1248	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1254	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1260	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1262	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72
	PCB-1268	100	< 74	74	< 71	71	< 73	73	< 74	74	< 70	70	< 72	72	< 74	74	< 73	73	< 74	74	< 72	72

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP11		EP12		EP13		EP14		EP15		EP16		EP17		EP18		EP19		EP20	
			6/1/2021		6/9/2021		6/9/2021		4/6/2021		9/27/2021		9/27/2021		9/27/2021		7/27/2021		6/17/2021		6/17/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.4	2.4	< 2.5	2.5	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4' -DDE	3.3	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.4	2.4	< 2.5	2.5	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4' -DDT	3.3	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	< 2.6	2.6	< 2.4	2.4	< 2.5	2.5	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	a-BHC	20	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	a-Chlordane		< 3.8	3.8	< 3.6	3.6	< 3.7	3.7	4.8	3.6	< 4.0	4.0	< 4.1	4.1	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	Alachlor		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aldrin	5	< 3.8	3.8	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 4.0	4.0	< 4.1	4.1	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	b-BHC	36	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Chlordane	94	< 38	38	< 36	36	< 37	37	28	14	< 40	40	< 41	41	< 37	37	< 37	37	< 37	37	< 37	37
	d-BHC	40	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Dieldrin	5	< 3.8	3.8	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 4.0	4.0	< 4.1	4.1	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	Endosulfan I	2,400	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Endosulfan II	2,400	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Endosulfan sulfate	2,400	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Endrin	14	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Endrin aldehyde		< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Endrin ketone		< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	g-BHC		< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.6	1.6	< 1.6	1.6	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5
	g-Chlordane		< 3.8	3.8	< 3.6	3.6	< 3.7	3.7	4.9	3.6	< 4.0	4.0	< 4.1	4.1	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7	< 3.7	3.7
	Heptachlor	42	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Heptachlor epoxide		< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.2	7.2	< 8.0	8.0	< 8.2	8.2	< 7.3	7.3	< 7.4	7.4	< 7.3	7.3	< 7.5	7.5
	Methoxychlor		< 38	38	< 36	36	< 37	37	< 36	36	< 40	40	< 41	41	< 37	37	< 37	37	< 37	37	< 37	37
	Toxaphene		< 150	150	< 150	150	< 150	150	< 140	140	< 160	160	< 160	160	< 150	150	< 150	150	< 150	150	< 150	150
PCBs	PCB-1016	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1221	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1232	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1242	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1248	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1254	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1260	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1262	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75
	PCB-1268	100	< 75	75	< 73	73	< 73	73	< 72	72	< 80	80	< 82	82	< 73	73	< 74	74	< 73	73	< 75	75

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP21		EP22		EP23		EP24		EP25		EP26		EP27		EP28		EP29		EP30	
			6/10/2021		6/10/2021		3/30/2021		9/28/2021		9/27/2021		6/21/2021		6/21/2021		7/7/2021		6/17/2021		3/29/2021	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides	4,4' -DDD	3.3	13,000	<2.3	2.3	<2.1	2.1	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.1	2.1	
	4,4' -DDE	3.3	8,900	<2.3	2.3	<2.1	2.1	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.1	2.1	
	4,4' -DDT	3.3	7,900	<2.3	2.3	<2.1	2.1	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.2	2.2	<2.1	2.1	
	a-BHC	20	480	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	a-Chlordane			<3.8	3.8	<3.5	3.5	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	
	Alachlor			-	-	-	-	-	-	<3.7	3.7	<3.6	3.6	-	-	-	-	-	-	-	-	
	Aldrin	5	97	<3.8	3.8	<3.5	3.5	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	
	b-BHC	36	360	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Chlordane	94	4,200	<38	38	<35	35	<37	37	<37	37	<36	36	<36	36	<37	37	<37	37	<37	37	
	d-BHC	40	100,000	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Dieldrin	5	200	<3.8	3.8	<3.5	3.5	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	
	Endosulfan I	2,400	24,000	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Endosulfan II	2,400	24,000	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Endosulfan sulfate	2,400	24,000	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Endrin	14	11,000	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Endrin aldehyde			<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Endrin ketone			<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	g-BHC			<1.5	1.5	<1.4	1.4	<1.5	1.5	<1.5	1.5	<1.4	1.4	<1.4	1.4	<1.5	1.5	<1.5	1.5	<1.5	1.5	
	g-Chlordane			<3.8	3.8	<3.5	3.5	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6	<3.7	3.7	<3.7	3.7	<3.7	3.7	
	Heptachlor	42	2,100	<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Heptachlor epoxide			<7.5	7.5	<7.1	7.1	<7.4	7.4	<7.4	7.4	<7.2	7.2	<7.2	7.2	<7.3	7.3	<7.4	7.4	<7.3	7.3	
	Methoxychlor			<38	38	<35	35	<37	37	<37	37	<36	36	<36	36	<37	37	<37	37	<37	37	
	Toxaphene			<150	150	<140	140	<150	150	<150	150	<140	140	<140	140	<150	150	<150	150	<150	150	
PCBs	PCB-1016	100	1,000	<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1221	100	1,000	<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1232	100	1,000	<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1242	100	1,000	<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1248	100	1,000	<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1254	100	1,000	<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1260	100	1,000	<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1262	100		<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	
	PCB-1268	100		<75	75	<71	71	<74	74	<74	74	<72	72	<72	72	<73	73	<74	74	<73	73	

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																				
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP31		EP32		EP33		EP34		EP35		EP36		EP37		EP38		EP39		EP40		
			3/29/2021		4/1/2021		3/23/2021		3/22/2021		9/28/2021		9/27/2021		7/21/2021		7/20/2021		3/31/2021		3/30/2021		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
Pesticides	4,4' -DDD	3.3	13,000	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.1	2.1	< 2.4	2.4	< 2.2	2.2	< 2.1	2.1	< 2.3	2.3	< 2.2	2.2
	4,4' -DDE	3.3	8,900	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.1	2.1	< 2.4	2.4	< 2.2	2.2	< 2.1	2.1	< 2.3	2.3	< 2.2	2.2
	4,4' -DDT	3.3	7,900	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.1	2.1	< 2.4	2.4	< 2.2	2.2	< 2.1	2.1	< 2.3	2.3	< 2.2	2.2
	a-BHC	20	480	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	a-Chlordane			< 3.6	3.6	< 3.6	3.6	< 3.6	3.6	< 3.4	3.4	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.8	3.8	< 3.7	3.7
	Alachlor			-	-	-	-	-	-	-	-	< 3.6	3.6	< 4.0	4.0	-	-	-	-	-	-	-	-
	Aldrin	5	97	< 3.6	3.6	< 3.6	3.6	< 3.6	3.6	< 3.4	3.4	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.8	3.8	< 3.7	3.7
	b-BHC	36	360	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Chlordane	94	4,200	< 36	36	< 36	36	< 36	36	< 34	34	< 36	36	< 40	40	< 37	37	< 36	36	< 38	38	< 37	37
	d-BHC	40	100,000	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Dieldrin	5	200	< 3.6	3.6	< 3.6	3.6	< 3.6	3.6	< 3.4	3.4	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.8	3.8	< 3.7	3.7
	Endosulfan I	2,400	24,000	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Endosulfan II	2,400	24,000	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Endosulfan sulfate	2,400	24,000	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Endrin	14	11,000	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Endrin aldehyde			< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Endrin ketone			< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	g-BHC			< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.6	1.6	< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5
	g-Chlordane			< 3.6	3.6	< 3.6	3.6	< 3.6	3.6	< 3.4	3.4	< 3.6	3.6	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.8	3.8	< 3.7	3.7
	Heptachlor	42	2,100	< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Heptachlor epoxide			< 7.3	7.3	< 7.2	7.2	< 7.1	7.1	< 6.9	6.9	< 7.1	7.1	< 8.0	8.0	< 7.3	7.3	< 7.1	7.1	< 7.7	7.7	< 7.4	7.4
	Methoxychlor			< 36	36	< 36	36	< 36	36	< 34	34	< 36	36	< 40	40	< 37	37	< 36	36	< 38	38	< 37	37
	Toxaphene			< 150	150	< 140	140	< 140	140	< 140	140	< 140	140	< 160	160	< 150	150	< 140	140	< 150	150	< 150	150
PCBs	PCB-1016	100	1,000	< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1221	100	1,000	< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1232	100	1,000	< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1242	100	1,000	< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1248	100	1,000	< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1254	100	1,000	< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1260	100	1,000	< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1262	100		< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74
	PCB-1268	100		< 73	73	< 72	72	< 71	71	< 69	69	< 71	71	< 80	80	< 73	73	< 71	71	< 77	77	< 74	74

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																				
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP41		EP42		EP43		EP44		EP45		EP47		EP48		EP49		EP50		EP51		
			3/30/2021		3/23/2021		3/23/2021		3/23/2021		3/23/2021		3/23/2021		8/11/2021		7/20/2021		3/31/2021		3/31/2021		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
Pesticides	4,4' -DDD	3.3	13,000	<2.2	2.2	<2.4	2.4	<2.1	2.1	<2.1	2.1	<2.1	2.1	<2.3	2.3	<2.2	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2
	4,4' -DDE	3.3	8,900	<2.2	2.2	<2.4	2.4	<2.1	2.1	<2.1	2.1	<2.1	2.1	<2.3	2.3	<2.2	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2
	4,4' -DDT	3.3	7,900	<2.2	2.2	<2.4	2.4	<2.1	2.1	<2.1	2.1	<2.1	2.1	<2.3	2.3	<2.2	2.2	<2.2	2.2	<2.1	2.1	<2.2	2.2
	a-BHC	20	480	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	a-Chlordane			<3.7	3.7	<4.1	4.1	<3.5	3.5	<3.5	3.5	<3.5	3.5	<3.8	3.8	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6
	Alachlor			-	-	-	-	-	-	-	-	-	-	<3.8	3.8	-	-	-	-	-	-	-	-
	Aldrin	5	97	<3.7	3.7	<4.1	4.1	<3.5	3.5	<3.5	3.5	<3.5	3.5	<3.8	3.8	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6
	b-BHC	36	360	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Chlordane	94	4,200	<37	37	<41	41	<35	35	<35	35	<35	35	<38	38	<37	37	<37	37	<36	36	<36	36
	d-BHC	40	100,000	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Dieldrin	5	200	<3.7	3.7	<4.1	4.1	<3.5	3.5	<3.5	3.5	<3.5	3.5	<3.8	3.8	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6
	Endosulfan I	2,400	24,000	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Endosulfan II	2,400	24,000	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Endosulfan sulfate	2,400	24,000	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Endrin	14	11,000	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Endrin aldehyde			<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Endrin ketone			<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	g-BHC			<1.5	1.5	<1.6	1.6	<1.4	1.4	<1.4	1.4	<1.4	1.4	<1.5	1.5	<1.5	1.5	<1.5	1.5	<1.4	1.4	<1.4	1.4
	g-Chlordane			<3.7	3.7	<4.1	4.1	<3.5	3.5	<3.5	3.5	<3.5	3.5	<3.8	3.8	<3.7	3.7	<3.7	3.7	<3.6	3.6	<3.6	3.6
	Heptachlor	42	2,100	<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Heptachlor epoxide			<7.4	7.4	<8.2	8.2	<7.1	7.1	<7.0	7.0	<7.1	7.1	<7.5	7.5	<7.4	7.4	<7.5	7.5	<7.1	7.1	<7.2	7.2
	Methoxychlor			<37	37	<41	41	<35	35	<35	35	<35	35	<38	38	<37	37	<37	37	<36	36	<36	36
	Toxaphene			<150	150	<160	160	<140	140	<140	140	<140	140	<150	150	<150	150	<150	150	<140	140	<140	140
PCBs	PCB-1016	100	1,000	<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1221	100	1,000	<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1232	100	1,000	<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1242	100	1,000	<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1248	100	1,000	<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1254	100	1,000	<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1260	100	1,000	<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1262	100		<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72
	PCB-1268	100		<74	74	<82	82	<71	71	<70	70	<71	71	<75	75	<74	74	<75	75	<71	71	<72	72

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																				
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP52		EP53		EP54		EP55		EP56		EP57		EP58		EP59		EP60		EP61		
			3/23/2021		3/23/2021		3/23/2021		3/22/2021		9/29/2021		4/9/2021		3/31/2021		3/31/2021		3/31/2021		3/23/2021		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
Pesticides	4,4' -DDD	3.3	13,000	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.1	2.1	< 2.4	2.4	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4' -DDE	3.3	8,900	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.1	2.1	< 2.4	2.4	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	4,4' -DDT	3.3	7,900	< 2.2	2.2	< 2.1	2.1	< 2.1	2.1	< 2.1	2.1	< 2.4	2.4	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2
	a-BHC	20	480	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	a-Chlordane			< 3.6	3.6	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7
	Alachlor			-	-	-	-	-	-	-	-	< 4.0	4.0	-	-	-	-	-	-	-	-	-	-
	Aldrin	5	97	< 3.6	3.6	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7
	b-BHC	36	360	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Chlordane	94	4,200	< 36	36	< 35	35	< 35	35	< 35	35	< 40	40	< 37	37	< 36	36	< 36	36	< 37	37	< 37	37
	d-BHC	40	100,000	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Dieldrin	5	200	< 3.6	3.6	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7
	Endosulfan I	2,400	24,000	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Endosulfan II	2,400	24,000	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Endosulfan sulfate	2,400	24,000	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Endrin	14	11,000	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Endrin aldehyde			< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Endrin ketone			< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	g-BHC			< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.6	1.6	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5
	g-Chlordane			< 3.6	3.6	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 4.0	4.0	< 3.7	3.7	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7
	Heptachlor	42	2,100	< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Heptachlor epoxide			< 7.2	7.2	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.9	7.9	< 7.4	7.4	< 7.2	7.2	< 7.2	7.2	< 7.5	7.5	< 7.5	7.5
	Methoxychlor			< 36	36	< 35	35	< 35	35	< 35	35	< 40	40	< 37	37	< 36	36	< 36	36	< 37	37	< 37	37
	Toxaphene			< 140	140	< 140	140	< 140	140	< 140	140	< 160	160	< 150	150	< 140	140	< 140	140	< 150	150	< 150	150
PCBs	PCB-1016	100	1,000	< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1221	100	1,000	< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1232	100	1,000	< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1242	100	1,000	< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1248	100	1,000	< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1254	100	1,000	< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1260	100	1,000	< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1262	100		< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75
	PCB-1268	100		< 72	72	< 71	71	< 71	71	< 69	69	< 79	79	< 74	74	< 72	72	< 72	72	< 75	75	< 75	75

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																				
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP62		EP62A		EP63		EP64		EP65		EP67		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		
			3/22/2021		3/31/2021		3/22/2021		3/22/2021		9/28/2021		9/28/2021		3/23/2021		3/29/2021		3/30/2021		3/31/2021		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result
Pesticides	4,4' -DDD	3.3	13,000	<2.1	2.1	<2.2	2.2	<2.1	2.1	<2.1	2.1	<2.3	2.3	<2.2	2.2	<2.6	2.6	<2.2	2.2	<2.2	2.2	<2.2	2.2
	4,4' -DDE	3.3	8,900	<2.1	2.1	<2.2	2.2	<2.1	2.1	<2.1	2.1	<2.3	2.3	<2.2	2.2	<2.6	2.6	<2.2	2.2	<2.2	2.2	<2.2	2.2
	4,4' -DDT	3.3	7,900	<2.1	2.1	<2.2	2.2	<2.1	2.1	<2.1	2.1	<2.3	2.3	<2.2	2.2	<2.6	2.6	<2.2	2.2	<2.2	2.2	<2.2	2.2
	a-BHC	20	480	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	a-Chlordane			<3.5	3.5	<3.7	3.7	<3.6	3.6	<3.5	3.5	<3.8	3.8	<3.7	3.7	<4.4	4.4	<3.7	3.7	<3.7	3.7	<3.7	3.7
	Alachlor			-	-	-	-	-	-	-	-	<3.8	3.8	<3.7	3.7	-	-	-	-	-	-	-	-
	Aldrin	5	97	<3.5	3.5	<3.7	3.7	<3.6	3.6	<3.5	3.5	<3.8	3.8	<3.7	3.7	<4.4	4.4	<3.7	3.7	<3.7	3.7	<3.7	3.7
	b-BHC	36	360	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Chlordane	94	4,200	<35	35	<37	37	<36	36	<35	35	<38	38	<37	37	<44	44	<37	37	<37	37	<37	37
	d-BHC	40	100,000	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Dieldrin	5	200	<3.5	3.5	<3.7	3.7	<3.6	3.6	<3.5	3.5	<3.8	3.8	<3.7	3.7	<4.4	4.4	<3.7	3.7	<3.7	3.7	<3.7	3.7
	Endosulfan I	2,400	24,000	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Endosulfan II	2,400	24,000	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Endosulfan sulfate	2,400	24,000	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Endrin	14	11,000	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Endrin aldehyde			<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Endrin ketone			<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	g-BHC			<1.4	1.4	<1.5	1.5	<1.4	1.4	<1.4	1.4	<1.5	1.5	<1.5	1.5	<1.7	1.7	<1.5	1.5	<1.5	1.5	<1.5	1.5
	g-Chlordane			<3.5	3.5	<3.7	3.7	<3.6	3.6	<3.5	3.5	<3.8	3.8	<3.7	3.7	<4.4	4.4	<3.7	3.7	<3.7	3.7	<3.7	3.7
	Heptachlor	42	2,100	<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Heptachlor epoxide			<7.1	7.1	<7.3	7.3	<7.1	7.1	<7.1	7.1	<7.6	7.6	<7.4	7.4	<8.7	8.7	<7.3	7.3	<7.4	7.4	<7.5	7.5
	Methoxychlor			<35	35	<37	37	<36	36	<35	35	<38	38	<37	37	<44	44	<37	37	<37	37	<37	37
	Toxaphene			<140	140	<150	150	<140	140	<140	140	<150	150	<150	150	<170	170	<150	150	<150	150	<150	150
PCBs	PCB-1016	100	1,000	<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1221	100	1,000	<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1232	100	1,000	<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1242	100	1,000	<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1248	100	1,000	<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1254	100	1,000	<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1260	100	1,000	<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1262	100		<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75
	PCB-1268	100		<71	71	<73	73	<71	71	<71	71	<76	76	<74	74	<87	87	<73	73	<74	74	<75	75

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

			Endpoint Soil Analytical Results																				
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		
			EP32		EP14		EP57		EP8		EP1		EP4		EP10		EP9		EP22		EP29		
			4/1/2021		4/6/2021		4/9/2021		5/12/2021		5/19/2021		5/24/2021		6/1/2021		6/9/2021		6/10/2021		6/17/2021		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
Pesticides	4,4' -DDD	3.3	13,000	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2
	4,4' -DDE	3.3	8,900	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2
	4,4' -DDT	3.3	7,900	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.2	2.2	< 2.3	2.3	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2
	a-BHC	20	480	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	a-Chlordane			< 3.7	3.7	4.7	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.5	3.5	< 3.6	3.6
	Alachlor			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Aldrin	5	97	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.5	3.5	< 3.6	3.6
	b-BHC	36	360	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Chlordane	94	4,200	< 37	37	27	14	< 37	37	< 36	36	< 37	37	< 38	38	< 37	37	< 36	36	< 35	35	< 36	36
	d-BHC	40	100,000	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Dieldrin	5	200	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.5	3.5	< 3.6	3.6
	Endosulfan I	2,400	24,000	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Endosulfan II	2,400	24,000	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Endosulfan sulfate	2,400	24,000	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Endrin	14	11,000	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Endrin aldehyde			< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Endrin ketone			< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	g-BHC			< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4
	g-Chlordane			< 3.7	3.7	4.1	3.6	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.5	3.5	< 3.6	3.6
	Heptachlor	42	2,100	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Heptachlor epoxide			< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.2	7.2	< 7.4	7.4	< 7.5	7.5	< 7.3	7.3	< 7.3	7.3	< 7.0	7.0	< 7.2	7.2
	Methoxychlor			< 37	37	< 36	36	< 37	37	< 36	36	< 37	37	< 38	38	< 37	37	< 36	36	< 35	35	< 36	36
	Toxaphene			< 150	150	< 140	140	< 150	150	< 140	140	< 150	150	< 150	150	< 150	150	< 150	150	< 140	140	< 140	140
PCBs	PCB-1016	100	1,000	< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1221	100	1,000	< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1232	100	1,000	< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1242	100	1,000	< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1248	100	1,000	< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1254	100	1,000	< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1260	100	1,000	< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1262	100		< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72
	PCB-1268	100		< 74	74	< 71	71	< 75	75	< 72	72	< 74	74	< 75	75	< 73	73	< 73	73	< 70	70	< 72	72

Notes:

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

RL - Reporting Limit

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

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

Table 17
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Pesticides/PCBs

				Endpoint Soil Analytical Results																	
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		
			EP27		EP28		EP48		EP37		EP18		EP47		EP25		EP24		EP56		
			6/21/2021		7/7/2021		7/20/2021		7/21/2021		7/27/2021		8/11/2021		9/27/2021		9/28/2021		9/29/2021		
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		
	µg/Kg	µg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	
Pesticides	4,4' -DDD	3.3	13,000	< 2.2	2.2	< 2.3	2.3	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.3	2.3
	4,4' -DDE	3.3	8,900	< 2.2	2.2	< 2.3	2.3	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.3	2.3
	4,4' -DDT	3.3	7,900	< 2.2	2.2	< 2.3	2.3	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.2	2.2	< 2.1	2.1	< 2.2	2.2	< 2.3	2.3
	a-BHC	20	480	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	a-Chlordane			< 3.6	3.6	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8
	Alachlor			-	-	-	-	-	-	-	-	-	-	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8
	Aldrin	5	97	< 3.6	3.6	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8
	b-BHC	36	360	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Chlordane	94	4,200	< 36	36	< 38	38	< 37	37	< 36	36	< 37	37	< 37	37	< 36	36	< 37	37	< 38	38
	d-BHC	40	100,000	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Dieldrin	5	200	< 3.6	3.6	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8
	Endosulfan I	2,400	24,000	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Endosulfan II	2,400	24,000	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Endosulfan sulfate	2,400	24,000	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Endrin	14	11,000	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Endrin aldehyde			< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Endrin ketone			< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	g-BHC			< 1.5	1.5	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5
	g-Chlordane			< 3.6	3.6	< 3.8	3.8	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.7	3.7	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8
	Heptachlor	42	2,100	< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Heptachlor epoxide			< 7.3	7.3	< 7.6	7.6	< 7.4	7.4	< 7.1	7.1	< 7.4	7.4	< 7.4	7.4	< 7.1	7.1	< 7.5	7.5	< 7.7	7.7
	Methoxychlor			< 36	36	< 38	38	< 37	37	< 36	36	< 37	37	< 37	37	< 36	36	< 37	37	< 38	38
	Toxaphene			< 150	150	< 150	150	< 150	150	< 140	140	< 150	150	< 150	150	< 140	140	< 150	150	< 150	150
PCBs	PCB-1016	100	1,000	< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1221	100	1,000	< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1232	100	1,000	< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1242	100	1,000	< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1248	100	1,000	< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1254	100	1,000	< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1260	100	1,000	< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1262	100		< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77
	PCB-1268	100		< 73	73	< 76	76	< 74	74	< 71	71	< 74	74	< 74	74	< 71	71	< 75	75	< 77	77

Notes:

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

RL - Reporting Limit

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

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

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

			Endpoint Soil Analytical Results																					
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP1		EP2		EP2A		EP3		EP4		EP5		EP6		EP7		EP7A		EP8			
			5/19/2021		5/24/2021		5/25/2021		5/24/2021		5/24/2021		5/24/2021		5/24/2021		5/19/2021		5/12/2021		5/17/2021		5/12/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
	mg/Kg	mg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
Aluminum			4,960	34	6,830	33	-	-	6,190	36	6,000	36	7,690	37	7,990	38	4,580	36	-	-	4,360	34		
Antimony			< 3.4	3.4	< 3.3	3.3	-	-	< 3.6	3.6	< 3.6	3.6	< 3.7	3.7	< 3.8	3.8	< 3.6	3.6	-	-	< 3.4	3.4		
Arsenic	13	16	2.17	0.68	2.18	0.65	-	-	2.31	0.71	2.81	0.72	2.34	0.75	1.61	0.75	3.81	0.71	-	-	< 0.68	0.68		
Barium	350	400	34.3	0.7	52.7	0.7	-	-	36.4	0.7	29.4	0.7	32.9	0.7	28.2	0.8	39.9	0.7	-	-	18.9	0.7		
Beryllium	7.2	72	0.29	0.27	0.42	0.26	-	-	0.39	0.28	0.32	0.29	0.37	0.30	0.3	0.30	0.19	0.28	-	-	< 0.27	0.27		
Cadmium	2.5	4.3	0.45	0.34	1.11	0.33	-	-	0.82	0.36	0.71	0.36	0.81	0.37	0.45	0.38	0.73	0.36	-	-	0.34	0.34		
Calcium			1,640	3.4	3,340	3.3	-	-	1,580	3.6	3,250	3.6	1,510	3.7	990	3.8	3,330	3.6	-	-	916	3.4		
Chromium	30	180	14.5	0.34	18.5	0.33	-	-	19.7	0.36	17	0.36	14.3	0.37	14.5	0.38	15.3	0.36	-	-	13.4	0.34		
Chromium, Hex.	1	110	< 0.41	0.41	0.45	0.42	-	-	0.55	0.42	< 0.40	0.40	< 0.42	0.42	< 0.41	0.41	< 0.43	0.43	-	-	< 0.44	0.44		
Cobalt			5.64	0.34	7.47	0.33	-	-	6.66	0.36	5.12	0.36	6.72	0.37	5.14	0.38	4.6	0.36	-	-	2.71	0.34		
Copper	50	270	11.2	0.7	54	0.7	30.5	0.7	13.2	0.7	13.5	0.7	25.5	0.7	12.6	0.8	20.9	0.7	-	-	8.1	0.7		
Iron			15,400	34	24,100	33	-	-	19,900	36	18,100	36	15,900	37	12,700	38	14,000	36	-	-	7,880	3.4		
Lead	63	400	4.8	0.7	40.1	0.7	-	-	6.7	0.7	7.9	0.7	57	0.7	13.5	0.8	75.4	0.7	2.2	0.7	2.6	0.7		
Magnesium			1,650	3.4	2,210	3.3	-	-	1,810	3.6	2,680	3.6	2,290	3.7	1,810	3.8	1,540	3.6	-	-	1,080	3.4		
Manganese	1,600	2,000	130	0.34	307	0.3	-	-	256	0.3	172	0.3	227	0.3	243	0.3	163	0.3	-	-	58.9	0.34		
Mercury	0.18	0.81	< 0.03	0.03	0.07	0.03	-	-	< 0.03	0.03	0.02	0.03	0.09	0.03	0.02	0.03	0.11	0.03	-	-	< 0.03	0.03		
Nickel	30	310	8.29	0.34	10.9	0.33	-	-	11.4	0.36	9.08	0.36	11	0.37	10.3	0.38	7.44	0.36	-	-	6.28	0.34		
Potassium			840	7	1,500	7	-	-	1,100	7	1,060	7	808	7	731	8	730	7	-	-	560	7		
Selenium	3.9	180	< 1.4	1.4	< 1.3	1.3	-	-	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	-	-	< 1.4	1.4		
Silver	2	180	< 0.34	0.34	< 0.33	0.33	-	-	< 0.36	0.36	< 0.36	0.36	< 0.37	0.37	< 0.38	0.38	< 0.36	0.36	-	-	< 0.34	0.34		
Sodium			243	7	225	7	-	-	204	7	232	7	147	7	74	8	89	7	-	-	117	7		
Thallium			< 1.4	1.4	< 1.3	1.3	-	-	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	-	-	< 1.4	1.4		
Vanadium			23.9	0.34	58.9	0.33	-	-	31.1	0.36	28.2	0.36	26.5	0.37	20.1	0.38	22	0.36	-	-	16.5	0.34		
Zinc	109	10,000	22.2	0.7	54.8	0.7	-	-	27.3	0.7	24.8	0.7	77.7	0.7	32.9	0.8	76.7	0.7	-	-	14	0.7		

Notes:

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

RL - Reporting Limit

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

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

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results																							
			EP8A		EP9		EP10		EP11		EP12		EP13		EP14		EP14A		EP15		EP16					
			5/17/2021		6/1/2021		6/1/2021		6/1/2021		6/9/2021		6/9/2021		4/6/2021		5/19/2021		9/27/2021		9/27/2021					
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg					
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			-	-	5,480	36	7,940	33	6,850	37	6,900	38	7,690	35	9,350	34	5,700	36	9,160	41	11,800	44				
Antimony			-	-	< 3.6	3.6	< 3.3	3.3	< 3.7	3.7	< 3.8	3.8	< 3.5	3.5	< 3.4	3.4	< 3.6	3.6	< 4.1	4.1	< 4.4	4.4				
Arsenic	13	16	-	-	1.2	0.71	0.86	0.65	1.74	0.75	2.72	0.77	2.58	0.70	3.47	0.69	1.4	0.73	< 0.82	0.82	1.4	0.88				
Barium	350	400	-	-	33.1	0.7	29.5	0.7	33.4	0.7	45.4	0.8	39.6	0.7	104	0.7	37.9	0.7	63.8	0.8	72.2	0.9				
Beryllium	7.2	72	-	-	0.27	0.28	0.38	0.26	0.32	0.30	0.43	0.31	0.35	0.28	0.39	0.27	0.3	0.29	0.73	0.33	0.57	0.35				
Cadmium	2.5	4.3	-	-	0.54	0.36	0.66	0.33	0.72	0.37	0.9	0.38	0.85	0.35	2.91	0.34	0.41	0.36	0.67	0.41	0.86	0.44				
Calcium			-	-	2,110	3.6	1,110	3.3	769	3.7	1,140	3.8	897	3.5	1,900	3.4	1,120	3.6	3,950	4.1	3,270	4.4				
Chromium	30	180	-	-	13.9	0.36	17.9	0.33	17.8	0.37	25.4	0.38	14.8	0.35	27.1	0.34	16.2	0.36	20.9	0.41	27.3	0.44				
Chromium, Hex.	1	110	< 0.42	0.42	< 0.45	0.45	< 0.43	0.43	< 0.45	0.45	< 0.43	0.43	< 0.43	0.43	< 0.44	0.44	< 0.41	0.41	< 0.49	0.49	< 0.49	0.49				
Cobalt			-	-	4.37	0.36	9.83	0.33	5.09	0.37	6.25	0.38	6.91	0.35	8.02	0.34	5.17	0.36	6.34	0.41	8.08	0.44				
Copper	50	270	-	-	16.2	0.7	15.1	0.7	15.8	0.7	15.7	0.8	27.4	0.7	53.1	0.7	11.9	0.7	12.3	0.8	13.2	0.9				
Iron			-	-	9,420	3.6	13,300	33	15,000	37	23,400	38	19,800	35	23,000	34	11,900	36	16,800	41	23,200	44				
Lead	63	400	-	-	41	0.7	4.4	0.7	4.6	0.7	5.5	0.8	48.1	0.7	259	0.7	9.4	0.7	7.3	0.8	8.3	0.9				
Magnesium			-	-	1,400	3.6	2,030	3.3	1,520	3.7	2,280	3.8	2,420	3.5	2,230	3.4	1,900	3.6	1,130	4.1	1,690	4.4				
Manganese	1,600	2,000	-	-	113	0.36	211	3.3	370	3.7	240	3.8	390	3.5	332	3.4	317	3.6	65.4	0.41	60.9	0.44				
Mercury	0.18	0.81	-	-	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	0.02	0.03	0.14	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03				
Nickel	30	310	-	-	7.72	0.36	15	0.33	11	0.37	10	0.38	12.8	0.35	19.5	0.34	9.84	0.36	11.2	0.41	17.2	0.44				
Potassium			-	-	706	7	971	7	807	7	797	8	642	7	1,030	7	928	7	783	8	1,250	9				
Selenium	3.9	180	-	-	< 1.4	1.4	< 1.3	1.3	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.6	1.6	< 1.8	1.8				
Silver	2	180	-	-	< 0.36	0.36	< 0.33	0.33	< 0.37	0.37	< 0.38	0.38	< 0.35	0.35	< 0.34	0.34	< 0.36	0.36	< 0.41	0.41	< 0.44	0.44				
Sodium			-	-	111	7	106	7	76	7	162	8	162	7	126	7	120	7	61	8	80	9				
Thallium			-	-	< 1.4	1.4	< 1.3	1.3	< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.6	1.6	< 1.8	1.8				
Vanadium			-	-	16.1	0.36	23.1	0.33	22.8	0.37	33.7	0.38	24.1	0.35	71.9	0.34	20.2	0.36	26.8	0.41	33.9	0.44				
Zinc	109	10,000	-	-	43.6	0.7	33	0.7	20.9	0.7	28.8	0.8	45.6	0.7	207	0.7	24.2	0.7	35.5	0.8	41.8	0.9				

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

			Endpoint Soil Analytical Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP17		EP18		EP19		EP20		EP21		EP22		EP23		EP24		EP24A		EP25	
			9/27/2021		7/27/2021		6/17/2021		6/17/2021		6/10/2021		6/10/2021		3/30/2021		9/28/2021		10/4/2021		9/27/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
	mg/Kg	mg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			6,450	39	4,900	34	6,550	36	10,300	36	6,810	40	5,320	32	6,040	37	8,390	36	-	-	4,190	33
Antimony			< 3.9	3.9	< 3.4	3.4	< 3.6	3.6	< 3.6	3.6	< 4.0	4.0	< 3.2	3.2	< 3.7	3.7	< 3.6	3.6	-	-	< 3.3	3.3
Arsenic	13	16	0.93	0.78	2.83	0.69	< 0.71	0.71	1.72	0.73	2.39	0.80	2.73	0.63	2.14	0.75	4.15	0.73	-	-	0.74	0.66
Barium	350	400	38.5	0.8	40.1	0.7	39	0.7	67.5	0.7	51.3	0.8	46.2	0.6	34.6	0.7	41.8	0.7	-	-	28.5	0.7
Beryllium	7.2	72	< 0.31	0.31	0.3	0.27	0.3	0.28	0.53	0.29	0.38	0.32	0.29	0.25	0.3	0.30	< 0.29	0.29	-	-	< 0.27	0.27
Cadmium	2.5	4.3	0.54	0.39	< 0.34	0.34	0.62	0.36	1.06	0.36	0.92	0.40	0.6	0.32	0.61	0.37	0.75	0.36	-	-	< 0.33	0.33
Calcium			1,030	3.9	2,390	3.4	1,630	3.6	2,650	3.6	1,350	4.0	1,960	3.2	1,190	3.7	1,060	3.6	-	-	965	3.3
Chromium	30	180	20.8	0.39	13.1	0.34	16.2	0.36	24.7	0.36	< 0.46	0.46	< 0.41	0.41	18.1	0.37	19.5	0.36	-	-	25.1	0.33
Chromium, Hex.	1	110	0.45	0.42	< 0.41	0.41	0.43	0.41	0.69	0.42	24.7	0.40	18.9	0.32	< 0.45	0.45	< 0.44	0.44	-	-	1.01	0.42
Cobalt			4.48	0.39	5.42	0.34	4.96	0.36	12.6	0.36	10.2	0.40	5.29	0.32	5.83	0.37	6.88	0.36	-	-	3.41	0.33
Copper	50	270	8.8	0.8	9.4	0.7	19	0.7	19.3	0.7	18.9	0.8	12.3	0.6	13	0.7	47.6	0.7	11.7	0.8	7.5	0.7
Iron			14,300	39	18,700	34	12,000	36	22,900	36	25,400	40	15,200	32	18,800	37	17,700	36	-	-	9,440	33
Lead	63	400	3.8	0.8	4.7	0.7	3.2	0.7	5.3	0.7	6.8	0.8	6.2	0.6	6.2	0.7	35.6	0.7	-	-	2.2	0.7
Magnesium			1,760	3.9	2,310	3.4	1,360	3.6	2,650	3.6	1,640	4.0	2,570	3.2	1,730	3.7	1,730	3.6	-	-	1,240	33
Manganese	1,600	2,000	68.7	0.39	213	3.4	70.5	0.36	104	0.36	210	4.0	216	3.2	147	0.37	307	3.6	-	-	62.6	0.33
Mercury	0.18	0.81	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	0.03	0.03	-	-	< 0.03	0.03
Nickel	30	310	10.7	0.39	9.05	0.34	10	0.36	15.3	0.36	11.6	0.40	9.5	0.32	9.77	0.37	11.9	0.36	-	-	7.07	0.33
Potassium			712	8	959	7	779	7	1,460	7	917	8	828	6	985	7	907	7	-	-	470	7
Selenium	3.9	180	< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.6	1.6	< 1.3	1.3	< 1.5	1.5	< 1.5	1.5	-	-	< 1.3	1.3
Silver	2	180	< 0.39	0.39	< 0.34	0.34	0.5	0.36	< 0.36	0.36	< 0.40	0.40	< 0.32	0.32	< 0.37	0.37	< 0.36	0.36	-	-	< 0.33	0.33
Sodium			68	8	108	7	117	7	202	7	346	8	320	6	119	7	59	7	-	-	98	7
Thallium			< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.6	1.6	< 1.3	1.3	< 1.5	1.5	< 1.5	1.5	-	-	< 1.3	1.3
Vanadium			23.2	0.39	23.6	0.34	25.2	0.36	32.4	0.36	34	0.40	24.9	0.32	38.4	0.37	29.3	0.36	-	-	19.4	0.33
Zinc	109	10,000	30.9	0.8	23.6	0.7	21.7	0.7	30.6	0.7	28.3	0.8	23.7	0.6	26	0.7	75.5	0.7	31.6	0.8	17.1	0.7

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

Endpoint Soil Analytical Results																						
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP25A		EP25B		EP26		EP27		EP28		EP28A		EP29		EP30		EP31		EP32	
			10/4/2021		10/4/2021		6/21/2021		6/21/2021		7/7/2021		7/12/2021		6/17/2021		3/29/2021		3/29/2021		4/1/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			-	-			8,590	37	8,830	38	7,580	36	-	-	9,210	38	6,400	34	6,200	36	5,030	40
Antimony			-	-			< 3.7	3.7	< 3.8	3.8	< 3.6	3.6	-	-	< 3.8	3.8	< 3.4	3.4	< 3.6	3.6	< 4.0	4.0
Arsenic	13	16	-	-			1.08	0.73	1.09	0.76	1.55	0.71	-	-	2.25	0.76	2.1	0.67	2.11	0.72	1.8	0.79
Barium	350	400	-	-			47.3	0.7	67.3	0.8	48.5	0.7	-	-	55.9	0.8	71.6	0.7	41.6	0.7	40.2	0.8
Beryllium	7.2	72	-	-			0.34	0.29	0.34	0.30	0.37	0.28	-	-	0.49	0.30	0.32	0.27	0.29	0.29	0.22	0.32
Cadmium	2.5	4.3	-	-			0.74	0.37	0.75	0.38	< 0.36	0.36	-	-	0.92	0.38	0.58	0.34	0.59	0.36	0.45	0.40
Calcium			-	-			1,780	3.7	1,990	3.8	1,910	3.6	-	-	1,670	3.8	1,310	3.4	1,840	3.6	1,300	4.0
Chromium	30	180	59.5	0.42	19.3	0.40	29.9	0.37	24.4	0.38	31.4	0.36	16.2	0.36	0.63	0.41	18.6	0.34	16.5	0.36	22.7	0.40
Chromium, Hex.	1	110	0.55	0.42	< 0.45	0.45	< 0.42	0.42	< 0.42	0.42	1.23	0.43	< 0.43	0.43	26.1	0.38	< 0.43	0.43	< 0.44	0.44	0.54	0.44
Cobalt			-	-			5.98	0.37	6.53	0.38	6.24	0.36	-	-	6.63	0.38	6.91	0.34	6.93	0.36	5.1	0.40
Copper	50	270	-	-			14.8	0.7	16.9	0.8	13.1	0.7	-	-	18.4	0.8	17.7	0.7	16.6	0.7	13.7	0.8
Iron			-	-			15,700	37	16,200	38	12,400	36	-	-	17,900	38	18,200	34	17,900	36	15,300	40
Lead	63	400	-	-			4.2	0.7	3.4	0.8	5.9	0.7	-	-	17.4	0.8	5.9	0.7	8.2	0.7	4.3	0.8
Magnesium			-	-			1,980	3.7	1,940	3.8	2,550	3.6	-	-	2,600	3.8	1,910	3.4	2,180	3.6	1,530	4.0
Manganese	1,600	2,000	-	-			92.9	0.37	65.1	0.38	152	3.6	-	-	438	3.8	616	3.4	301	3.6	228	4.0
Mercury	0.18	0.81	-	-			< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	-	-	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03
Nickel	30	310	-	-			11.5	0.37	19.2	0.38	13.3	0.36	-	-	12.8	0.38	13.2	0.34	12	0.36	9.57	0.40
Potassium			-	-			1,100	7	569	8	851	7	-	-	1,170	8	1,290	7	1,030	7	892	8
Selenium	3.9	180	-	-			< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	-	-	< 1.5	1.5	< 1.3	1.3	< 1.4	1.4	< 1.6	1.6
Silver	2	180	-	-			< 0.37	0.37	0.45	0.38	< 0.36	0.36	-	-	< 0.38	0.38	< 0.34	0.34	< 0.36	0.36	< 0.40	0.40
Sodium			-	-			181	7	238	8	197	7	-	-	120	8	144	7	200	7	171	8
Thallium			-	-			< 1.5	1.5	< 1.5	1.5	< 1.4	1.4	-	-	< 1.5	1.5	< 1.3	1.3	< 1.4	1.4	< 1.6	1.6
Vanadium			-	-			29.7	0.37	24.8	0.38	25.9	0.36	-	-	26.2	0.38	30.2	0.34	25.4	0.36	24.8	0.40
Zinc	109	10,000	-	-			25.5	0.7	39.6	0.8	31.9	0.7	-	-	35.3	0.8	26.2	0.7	25.2	0.7	21.6	0.8

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

			Endpoint Soil Analytical Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP33		EP34		EP35		EP35		EP36		EP37		EP38		EP39		EP40		EP40A	
			3/23/2021		3/22/2021		9/28/2021		10/4/2021		9/27/2021		7/21/2021		7/20/2021		3/31/2021		3/30/2021		4/6/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
	mg/Kg	mg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			7,220	32	4,930	32	8,290	37	-	-	9,300	40	6,100	33	6,280	35	6,930	35	10,400	34	-	-
Antimony			< 3.2	3.2	< 3.2	3.2	< 3.7	3.7	-	-	< 4.0	4.0	< 3.3	3.3	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	-	-
Arsenic	13	16	1.93	0.65	0.83	0.65	2.73	0.74	-	-	2.63	0.79	2.25	0.66	1.3	0.70	1.05	0.69	2.32	0.68	-	-
Barium	350	400	38.7	0.6	34.6	0.6	36.9	0.7	-	-	43.6	0.8	73.7	0.7	40.6	0.7	43.4	0.7	59.2	0.7	-	-
Beryllium	7.2	72	0.32	0.26	< 0.26	0.26	< 0.30	0.30	-	-	< 0.32	0.32	0.33	0.26	0.32	0.28	0.28	0.28	0.35	0.27	-	-
Cadmium	2.5	4.3	0.58	0.32	0.37	0.32	0.7	0.37	-	-	0.48	0.40	< 0.33	0.33	< 0.35	0.35	0.72	0.35	0.6	0.34	-	-
Calcium			1,100	3.2	801	3.2	1,230	3.7	-	-	1,190	4.0	1,930	3.3	1,160	3.5	2,810	3.5	2,960	3.4	-	-
Chromium	30	180	20	0.32	16.7	0.32	18.5	0.37	-	-	21.5	0.40	17.5	0.33	20	0.35	19.5	0.35	32.6	0.34	20.8	0.34
Chromium, Hex.	1	110	< 0.42	0.42	< 0.41	0.41	< 0.43	0.43	-	-	< 0.49	0.49	< 0.41	0.41	0.54	0.41	< 0.45	0.45	< 0.40	0.40	-	-
Cobalt			5.6	0.32	5.36	0.32	6.68	0.37	-	-	5.45	0.40	5.32	0.33	5.67	0.35	7.56	0.35	8.15	0.34	-	-
Copper	50	270	13	0.6	17.2	0.6	50.1	0.7	9.6	0.7	8.3	0.8	16.8	0.7	12.2	0.7	17.1	0.7	17.1	0.7	-	-
Iron			19,900	32	10,300	32	18,000	37	-	-	14,500	40	11,800	33	12,300	35	14,800	35	18,000	34	-	-
Lead	63	400	5.2	0.6	3.4	0.6	17.2	0.7	-	-	5.9	0.8	9.6	0.7	3.7	0.7	10	0.7	4.9	0.7	-	-
Magnesium			1,710	3.2	1,970	3.2	1,690	3.7	-	-	1,280	4.0	2,140	3.3	2,350	3.5	2,950	3.5	4,970	3.4	-	-
Manganese	1,600	2,000	286	3.2	211	3.2	318	3.7	-	-	88.1	0.40	386	3.3	152	3.5	192	3.5	295	3.4	-	-
Mercury	0.18	0.81	< 0.03	0.03	< 0.03	0.03	0.02	0.03	-	-	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	-	-
Nickel	30	310	10.1	0.32	9.58	0.32	13	0.37	-	-	9.59	0.40	11.9	0.33	10.9	0.35	11.7	0.35	18.7	0.34	-	-
Potassium			1,050	6	730	6	900	7	-	-	903	8	954	7	993	7	1,310	7	2,740	7	-	-
Selenium	3.9	180	< 1.3	1.3	< 1.3	1.3	< 1.5	1.5	-	-	< 1.6	1.6	< 1.3	1.3	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	-	-
Silver	2	180	< 0.32	0.32	< 0.32	0.32	< 0.37	0.37	-	-	< 0.40	0.40	< 0.33	0.33	< 0.35	0.35	< 0.35	0.35	< 0.34	0.34	-	-
Sodium			108	6	74	6	87	7	-	-	52	8	150	7	127	7	166	7	467	7	-	-
Thallium			< 1.3	1.3	< 1.3	1.3	< 1.5	1.5	-	-	< 1.6	1.6	< 1.3	1.3	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	-	-
Vanadium			28.4	0.32	20.2	0.32	26.6	0.37	-	-	28.6	0.40	19.1	0.33	26.3	0.35	25.6	0.35	34.9	0.34	-	-
Zinc	109	10,000	24	0.6	18.9	0.6	68.8	0.7	-	-	22.2	0.8	28.1	0.7	22.7	0.7	28.1	0.7	31.2	0.7	-	-

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

			Endpoint Soil Analytical Results																	
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP41		EP42		EP43		EP44		EP45		EP47		EP48		EP49		EP50	
			3/30/2021		3/23/2021		3/23/2021		3/23/2021		3/23/2021		8/11/2021		7/20/2021		3/31/2021		3/31/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
	mg/Kg	mg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			6,450	36	4,180	39	7,470	35	4,520	35	4,050	35	4,080	39	7,110	35	7,790	39	10,300	37
Antimony			< 3.6	3.6	< 3.9	3.9	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	< 3.9	3.9	< 3.7	3.7
Arsenic	13	16	2.69	0.73	1.86	0.78	1.82	0.70	1.44	0.71	0.78	0.70	2.2	0.79	1.65	0.69	1.99	0.79	3.22	0.73
Barium	350	400	51.6	0.7	34	0.8	58.1	0.7	26	0.7	44.4	0.7	30.9	0.8	42.2	0.7	64.6	0.8	84.3	0.7
Beryllium	7.2	72	0.29	0.29	0.33	0.31	0.38	0.28	0.21	0.28	0.19	0.28	0.24	0.31	0.3	0.28	0.32	0.31	0.42	0.29
Cadmium	2.5	4.3	0.6	0.36	0.59	0.39	0.58	0.35	0.47	0.35	< 0.35	0.35	0.57	0.39	< 0.35	0.35	0.95	0.39	1.03	0.37
Calcium			1,810	3.6	1,210	3.9	1,820	3.5	1,340	3.5	1,330	3.5	2,460	3.9	1,890	3.5	3,060	3.9	2,060	3.7
Chromium	30	180	18.2	0.36	10.2	0.39	18.9	0.35	11.7	0.35	9.58	0.35	10.8	0.39	18.8	0.35	22.6	0.39	17	0.37
Chromium, Hex.	1	110	< 0.44	0.44	< 0.46	0.46	< 0.40	0.40	< 0.41	0.41	< 0.41	0.41	< 0.43	0.43	0.52	0.44	< 0.44	0.44	< 0.40	0.40
Cobalt			5.47	0.36	4.03	0.39	7.06	0.35	5.3	0.35	4.58	0.35	5.08	0.39	6.59	0.35	7.22	0.39	8.8	0.37
Copper	50	270	20.8	0.7	11	0.8	29.2	0.7	15.7	0.7	10.9	0.7	8.2	0.8	17.8	0.7	27.7	0.8	27.4	0.7
Iron			13,200	36	17,200	39	14,800	35	13,100	35	8,410	3.5	18,100	39	13,300	35	18,100	39	21,900	37
Lead	63	400	51.6	0.7	7.4	0.8	4.9	0.7	3.6	0.7	2.5	0.7	3.8	0.8	5.2	0.7	48.4	0.8	8.4	0.7
Magnesium			1,910	3.6	1,520	3.9	2,830	3.5	1,420	3.5	1,760	3.5	2,020	3.9	2,180	3.5	2,480	3.9	3,650	3.7
Manganese	1,600	2,000	251	3.6	294	3.9	581	3.5	276	3.5	275	3.5	166	3.9	183	3.5	278	3.9	424	3.7
Mercury	0.18	0.81	0.05	0.03	< 0.01	0.01	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	0.04	0.03	< 0.03	0.03
Nickel	30	310	10.6	0.36	10	0.39	13.8	0.35	8.83	0.35	9.01	0.35	8.46	0.39	11.5	0.35	12.5	0.39	17.6	0.37
Potassium			878	7	671	8	1,030	7	673	7	1,100	7	757	79	982	7	1,140	8	1,790	7
Selenium	3.9	180	< 1.5	1.5	< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 1.6	1.6	< 1.5	1.5
Silver	2	180	< 0.36	0.36	< 0.39	0.39	< 0.35	0.35	< 0.35	0.35	< 0.35	0.35	< 0.39	0.39	< 0.35	0.35	< 0.39	0.39	< 0.37	0.37
Sodium			159	7	131	8	184	7	155	7	142	7	112	8	371	7	223	8	198	7
Thallium			< 1.5	1.5	< 1.6	1.6	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	< 1.6	1.6	< 1.5	1.5
Vanadium			24	0.36	19.4	0.39	28.6	0.35	24.6	0.35	13.5	0.35	22.6	0.39	29.9	0.35	31.9	0.39	22.7	0.37
Zinc	109	10,000	61	0.7	47.4	0.8	29.3	0.7	22.2	0.7	18.6	0.7	20.5	0.8	23	0.7	50.8	0.8	44.1	0.7

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

			Endpoint Soil Analytical Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP51		EP52		EP53		EP54		EP55		EP56		EP56A		EP57		EP57A		EP58	
			3/31/2021		3/23/2021		3/23/2021		3/23/2021		3/22/2021		9/29/2021		10/4/2021		4/9/2021		7/12/2021		3/31/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
	mg/Kg	mg/Kg																				
Aluminum			6,850	39	7,550	35	5,880	32	5,810	35	4,360	31	13,000	35	-	-	6,050	37	-	-	6,750	37
Antimony			< 3.9	3.9	< 3.5	3.5	< 3.2	3.2	< 3.5	3.5	< 3.1	3.1	< 3.5	3.5	-	-	< 3.7	3.7	-	-	< 3.7	3.7
Arsenic	13	16	2.39	0.77	2.22	0.70	1.68	0.65	1.22	0.70	1.58	0.63	5.02	0.71	-	-	2.05	0.74	-	-	2.13	0.73
Barium	350	400	67.3	0.8	47.4	0.7	46.4	0.6	46.2	0.7	36.4	0.6	88.3	0.7	-	-	71.3	0.7	-	-	55.7	0.7
Beryllium	7.2	72	0.34	0.31	0.32	0.28	0.27	0.26	0.24	0.28	< 0.25	0.25	< 0.28	0.28	-	-	0.28	0.30	-	-	0.22	0.29
Cadmium	2.5	4.3	0.95	0.39	0.56	0.35	0.41	0.32	0.42	0.35	0.43	0.31	1.65	0.35	-	-	< 0.37	0.37	-	-	1.04	0.37
Calcium			4,170	3.9	2,570	3.5	1,240	3.2	916	3.5	1,460	3.1	883	3.5	-	-	2,020	3.7	-	-	4,820	3.7
Chromium	30	180	19	0.39	21.3	0.35	12	0.32	14.3	0.35	11.9	0.31	14.5	0.35	-	-	16.3	0.37	14	0.36	11.7	0.37
Chromium, Hex.	1	110	< 0.42	0.42	0.53	0.44	< 0.40	0.40	< 0.39	0.39	< 0.41	0.41	< 0.47	0.47	-	-	< 0.42	0.42	-	-	< 0.44	0.44
Cobalt			7.03	0.39	5.74	0.35	5.38	0.32	5.66	0.35	4.97	0.31	10.2	0.35	-	-	5.11	0.37	-	-	8.83	0.37
Copper	50	270	18	0.8	13.6	0.7	17	0.6	11.7	0.7	16.7	0.6	30.4	0.7	-	-	13.8	0.7	-	-	216	7.3
Iron			17,800	39	13,600	35	12,600	32	10,900	35	13,700	31	25,100	35	-	-	9,560	3.7	-	-	24,500	37
Lead	63	400	31.6	0.8	12.2	0.7	4.8	0.6	4.9	0.7	3.7	0.6	65.7	0.7	7	0.9	7.7	0.7	-	-	12.5	0.7
Magnesium			3,280	3.9	2,030	3.5	2,000	3.2	1,620	3.5	1,670	3.1	3,850	3.5	-	-	1,680	3.7	-	-	2,310	3.7
Manganese	1,600	2,000	398	3.9	186	3.5	89.6	0.32	492	3.5	205	3.1	265	3.5	-	-	327	3.7	-	-	228	3.7
Mercury	0.18	0.81	0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	0.03	0.03	-	-	< 0.03	0.03	-	-	< 0.03	0.03
Nickel	30	310	11.7	0.39	11.3	0.35	9.64	0.32	10.2	0.35	8.14	0.31	20.3	0.35	-	-	10.4	0.37	-	-	8.43	0.37
Potassium			1,110	8	912	7	968	6	775	7	727	6	954	7	-	-	643	7	-	-	1,590	7
Selenium	3.9	180	< 1.5	1.5	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	-	-	< 1.5	1.5	-	-	< 1.5	1.5
Silver	2	180	< 0.39	0.39	< 0.35	0.35	< 0.32	0.32	< 0.35	0.35	< 0.31	0.31	< 0.35	0.35	-	-	< 0.37	0.37	-	-	< 0.37	0.37
Sodium			224	8	489	7	139	6	104	7	166	6	67	7	-	-	145	7	-	-	225	7
Thallium			< 1.5	1.5	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	-	-	< 1.5	1.5	-	-	< 1.5	1.5
Vanadium			30	0.39	33.2	0.35	20.1	0.32	18.1	0.35	21.5	0.31	18.9	0.35	-	-	15.8	0.37	-	-	21	0.37
Zinc	109	10,000	42.4	0.8	31.1	0.7	32.5	0.6	19.5	0.7	19.4	0.6	313	0.7	21.7	0.9	23.7	0.7	-	-	58.3	0.7

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

			Endpoint Soil Analytical Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	EP59		EP60		EP61		EP62		EP62A		EP63		EP64		EP65		EP67		Soil Duplicate	
																					EP42	
			3/31/2021		3/31/2021		3/23/2021		3/22/2021		3/31/2021		3/22/2021		3/22/2021		9/28/2021		9/28/2021		3/23/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			6,330	35	7,130	35	5,950	35	7,390	34	4,360	35	5,900	33	5,480	33	12,300	39	7,160	36	4,340	41
Antimony			< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.4	3.4	< 3.5	3.5	< 3.3	3.3	< 3.3	3.3	< 3.9	3.9	< 3.6	3.6	< 4.1	4.1
Arsenic	13	16	2	0.71	2.41	0.69	1.92	0.69	2.71	0.67	2	0.70	1.95	0.66	1.1	0.66	2.31	0.78	1.99	0.73	2.31	0.82
Barium	350	400	45.5	0.7	102	0.7	29.6	0.7	36.1	0.7	41.2	0.7	39.3	0.7	38.9	0.7	48.3	0.8	34.5	0.7	35.5	0.8
Beryllium	7.2	72	0.28	0.28	0.31	0.28	0.28	0.28	0.44	0.27	0.22	0.28	0.28	0.26	< 0.26	0.26	< 0.31	0.31	< 0.29	0.29	0.18	0.33
Cadmium	2.5	4.3	0.76	0.35	0.85	0.35	0.5	0.35	0.52	0.34	0.65	0.35	0.49	0.33	0.38	0.33	0.64	0.39	0.5	0.36	0.57	0.41
Calcium			1,880	3.5	1,850	3.5	1,250	3.5	1,570	3.4	1,470	3.5	1,710	3.3	1,870	3.3	1,150	3.9	1,030	3.6	1,760	4.1
Chromium	30	180	21.4	0.35	16.1	0.35	24.7	0.35	54.8	0.34	12.1	0.35	18.5	0.33	12.4	0.33	21.7	0.39	15.5	0.36	11.2	0.41
Chromium, Hex.	1	110	< 0.40	0.40	< 0.43	0.43	< 0.45	0.45	< 0.42	0.42	< 0.45	0.45	< 0.41	0.41	< 0.40	0.40	< 0.45	0.45	< 0.43	0.43	< 0.49	0.49
Cobalt			6.71	0.35	6.21	0.35	3.68	0.35	5.81	0.34	5.17	0.35	5.8	0.33	5.14	0.33	7.34	0.39	6.68	0.36	4.58	0.41
Copper	50	270	16.6	0.7	18	0.7	13.9	0.7	8.6	0.7	14.2	0.7	15.2	0.7	12	0.7	48.5	0.8	22	0.7	14.9	0.8
Iron			14,800	35	16,700	35	17,400	35	16,400	34	13,300	35	13,400	33	11,300	33	15,000	39	15,600	36	14,700	41
Lead	63	400	10.7	0.7	7.4	0.7	4.5	0.7	18	0.7	3.6	0.7	5	0.7	2.8	0.7	16.3	0.8	18.1	0.7	11.7	0.8
Magnesium			1,840	3.5	2,680	3.5	1,310	3.5	2,300	3.4	1,440	3.5	2,180	3.3	1,930	3.3	2,150	3.9	1,700	3.6	1,820	4.1
Manganese	1,600	2,000	184	3.5	439	3.5	201	3.5	154	3.4	260	3.5	311	3.3	226	3.3	133	0.39	303	3.6	244	4.1
Mercury	0.18	0.81	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	0.04	0.03	< 0.05	0.05
Nickel	30	310	11.5	0.35	14.1	0.35	8.06	0.35	12.1	0.34	9.13	0.35	10.7	0.33	8.54	0.33	14.8	0.39	10.7	0.36	10.1	0.41
Potassium			978	7	1,270	7	723	7	722	7	809	7	917	7	697	7	816	8	823	7	740	8
Selenium	3.9	180	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.6	1.6	< 1.5	1.5	< 1.6	1.6
Silver	2	180	< 0.35	0.35	< 0.35	0.35	< 0.35	0.35	< 0.34	0.34	< 0.35	0.35	< 0.33	0.33	< 0.33	0.33	< 0.39	0.39	< 0.36	0.36	< 0.41	0.41
Sodium			258	7	314	7	190	7	131	7	148	7	215	7	241	7	76	8	128	7	182	8
Thallium			< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.6	1.6	< 1.5	1.5	< 1.6	1.6
Vanadium			25	0.35	22.2	0.35	28.4	0.35	31.7	0.34	23.4	0.35	26	0.33	22.3	0.33	30.5	0.39	21.9	0.36	27.6	0.41
Zinc	109	10,000	35.7	0.7	31.1	0.7	17.7	0.7	26	0.7	19.2	0.7	23.3	0.7	18.2	0.7	56.1	0.8	31	0.7	48.9	0.8

Notes:

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

RL - Reporting Limit

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Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

Endpoint Soil Analytical Results																				
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP30		EP41		EP59		EP32		EP14		EP57		EP8		EP7A		EP1	
			3/29/2021		3/30/2021		3/31/2021		4/1/2021		4/6/2021		4/9/2021		5/12/2021		5/17/2021		5/19/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			5,020	33	8,080	37	6,650	35	6,730	37	9,400	35	6,820	39	3,810	35	-	-	4,850	33
Antimony			< 3.3	3.3	< 3.7	3.7	< 3.5	3.5	< 3.7	3.7	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	-	-	< 3.3	3.3
Arsenic	13	16	1.82	0.66	2.95	0.75	2.16	0.69	2.84	0.75	4.12	0.71	1.79	0.78	< 0.69	0.69	-	-	1.74	0.65
Barium	350	400	42.6	0.7	53.7	0.7	53.5	0.7	48.1	0.7	157	0.7	68.3	0.8	17.3	0.7	-	-	32	0.7
Beryllium	7.2	72	0.28	0.26	0.32	0.30	0.29	0.28	0.27	0.30	0.39	0.28	0.3	0.31	< 0.28	0.28	-	-	0.26	0.26
Cadmium	2.5	4.3	0.52	0.33	0.68	0.37	0.84	0.35	0.47	0.37	2.74	0.35	0.4	0.39	< 0.35	0.35	-	-	0.41	0.33
Calcium			1,240	3.3	1,960	3.7	1,570	3.5	1,660	3.7	2,170	3.5	2,420	3.9	797	3.5	-	-	1,080	3.3
Chromium	30	180	14.7	0.33	21.5	0.37	19	0.35	16.5	0.37	26.3	0.35	34.9	0.39	11.5	0.35	-	-	12.5	0.33
Chromium, Hex.	1	110	< 0.41	0.41	< 0.44	0.44	< 0.44	0.44	< 0.45	0.45	< 0.42	0.42	< 0.44	0.44	1.03	0.43	-	-	< 0.44	0.44
Cobalt			5.54	0.33	6.66	0.37	7.89	0.35	5.92	0.37	7.53	0.35	6.47	0.39	2.3	0.35	-	-	4.45	0.33
Copper	50	270	15.9	0.7	22.6	0.7	18.6	0.7	16.5	0.7	63.1	0.7	14.3	0.8	5.9	0.7	-	-	10.6	0.7
Iron			14,700	33	15,800	37	18,500	35	14,600	37	20,700	35	11,900	39	6,770	3.5	-	-	14,300	33
Lead	63	400	5.4	0.7	55	0.7	10.3	0.7	11.8	0.7	235	0.7	4	0.8	2.2	0.7	2.6	0.7	9.2	0.7
Magnesium			1,500	3.3	2,770	3.7	1,950	3.5	1,860	3.7	2,280	3.5	2,040	3.9	1,040	3.5	-	-	1,330	3.3
Manganese	1,600	2,000	413	3.3	294	3.7	257	3.5	231	3.7	323	3.5	321	3.9	47.5	0.35	-	-	115	0.33
Mercury	0.18	0.81	< 0.03	0.03	0.06	0.03	< 0.03	0.03	< 0.03	0.03	0.1	0.03	< 0.03	0.03	< 0.03	0.03	-	-	< 0.03	0.03
Nickel	30	310	10.6	0.33	13	0.37	12.6	0.35	10.4	0.37	19	0.35	11.1	0.39	5.75	0.35	-	-	7.45	0.33
Potassium			996	7	1,400	7	1,080	7	1,070	7	1,060	7	1,050	8	453	7	-	-	760	7
Selenium	3.9	180	< 1.3	1.3	< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	-	-	< 1.3	1.3
Silver	2	180	< 0.33	0.33	< 0.37	0.37	< 0.35	0.35	< 0.37	0.37	< 0.35	0.35	< 0.39	0.39	< 0.35	0.35	-	-	< 0.33	0.33
Sodium			125	7	242	7	176	7	158	7	155	7	188	8	103	7	-	-	165	7
Thallium			< 1.3	1.3	< 1.5	1.5	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.6	1.6	< 1.4	1.4	-	-	< 1.3	1.3
Vanadium			21.6	0.33	27.7	0.37	26.4	0.35	26.2	0.37	35.2	0.35	24.5	0.39	14.9	0.35	-	-	21.4	0.33
Zinc	109	10,000	22.7	0.7	60.3	0.7	32.3	0.7	27.4	0.7	224	0.7	23.2	0.8	10.9	0.7	-	-	21.8	0.7

Notes:

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

RL - Reporting Limit

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Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results																			
			Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP10		EP9		EP22		EP29		EP27		EP28		EP28A		EP48		EP37		EP18	
			6/1/2021		6/9/2021		6/10/2021		6/17/2021		6/21/2021		7/7/2021		7/12/2021		7/20/2021		7/21/2021		7/27/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			7,270	35	6,960	35	5,350	35	8,210	37	6,880	36	9,950	34	-	-	5,860	39	6,810	39	4,750	33
Antimony			< 3.5	3.5	< 3.5	3.5	< 3.5	3.5	< 3.7	3.7	< 3.6	3.6	< 3.4	3.4	-	-	< 3.9	3.9	< 3.9	3.9	< 3.3	3.3
Arsenic	13	16	2.47	0.69	2.75	0.69	2.34	0.70	1.83	0.74	< 0.71	0.71	2.19	0.68	-	-	1.69	0.78	4.04	0.77	2.33	0.66
Barium	350	400	37.9	0.7	37.7	0.7	41.9	0.7	66.4	0.7	44.3	0.7	57	0.7	-	-	35.5	0.8	80.7	0.8	28	0.7
Beryllium	7.2	72	0.36	0.28	0.43	0.28	0.28	0.28	0.43	0.30	0.3	0.28	0.58	0.27	-	-	0.25	0.31	0.33	0.31	0.25	0.26
Cadmium	2.5	4.3	0.9	0.35	0.87	0.35	0.57	0.35	0.89	0.37	0.7	0.36	< 0.34	0.34	-	-	< 0.39	0.39	< 0.39	0.39	< 0.33	0.33
Calcium			831	3.5	1,220	3.5	2,010	3.5	1,750	3.7	1,030	3.6	2,170	3.4	-	-	1,600	3.9	1,610	3.9	2,380	3.3
Chromium	30	180	22.1	0.35	26.9	0.35	< 0.43	0.43	0.61	0.43	16.6	0.36	42.8	0.34	18	0.39	24	0.39	17.5	0.39	14.8	0.33
Chromium, Hex.	1	110	< 0.20	0.20	0.46	0.43	15.7	0.35	24.3	0.37	0.45	0.43	0.91	0.42	< 0.40	0.40	< 0.45	0.45	< 0.43	0.43	< 0.44	0.44
Cobalt			5.88	0.35	6.12	0.35	5.26	0.35	7.06	0.37	5.41	0.36	9.24	0.34	-	-	4.97	0.39	6.27	0.39	4.77	0.33
Copper	50	270	17.9	0.7	16.9	0.7	11.9	0.7	17.7	0.7	11.5	0.7	15.7	0.7	-	-	12.4	0.8	29.3	0.8	15.1	0.7
Iron			19,700	35	24,000	35	15,300	35	16,200	37	14,500	36	20,600	34	-	-	12,400	39	15,300	39	14,900	33
Lead	63	400	5.5	0.7	6.1	0.7	4.8	0.7	21.1	0.7	2.7	0.7	7.4	0.7	-	-	4	0.8	57.7	0.8	6.4	0.7
Magnesium			1,520	3.5	2,060	3.5	2,110	3.5	2,270	3.7	1,680	3.6	4,690	3.4	-	-	2,010	3.9	2,400	3.9	1,870	3.3
Manganese	1,600	2,000	413	3.5	276	3.5	255	3.5	511	3.7	66.8	0.36	245	3.4	-	-	133	0.39	421	3.9	183	3.3
Mercury	0.18	0.81	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03	-	-	< 0.03	0.03	< 0.03	0.03	< 0.03	0.03
Nickel	30	310	13	0.35	10.4	0.35	8.87	0.35	13.8	0.37	12.2	0.36	21.9	0.34	-	-	9.74	0.39	14.1	0.39	7.87	0.33
Potassium			785	7	1,210	7	749	7	965	7	660	7	873	7	-	-	941	8	1,050	8	764	7
Selenium	3.9	180	< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	-	-	< 1.6	1.6	< 1.5	1.5	< 1.3	1.3
Silver	2	180	< 0.35	0.35	< 0.35	0.35	< 0.35	0.35	< 0.37	0.37	< 0.36	0.36	< 0.34	0.34	-	-	< 0.39	0.39	< 0.39	0.39	< 0.33	0.33
Sodium			79	7	184	7	311	7	134	7	61	7	203	7	-	-	157	8	107	8	139	7
Thallium			< 1.4	1.4	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.4	1.4	< 1.4	1.4	-	-	< 1.6	1.6	< 1.5	1.5	< 1.3	1.3
Vanadium			26.8	0.35	31.9	0.35	26.9	0.35	28.3	0.37	17.5	0.36	36.7	0.34	-	-	31.8	0.39	21.2	0.39	20	0.33
Zinc	109	10,000	24.8	0.7	30.8	0.7	19	0.7	34	0.7	30.2	0.7	43.6	0.7	-	-	20.4	0.8	54.3	0.8	22	0.7

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSO Guidance

Table 18
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	Endpoint Soil Analytical Results															
			Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate		Soil Duplicate	
			EP47		EP25		EP24		EP56		EP56A		EP24A		EP35A		EP25A	
			8/11/2021		9/27/2021		9/28/2021		9/29/2021		10/4/2021		10/4/2021		10/4/2021		10/4/2021	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
	mg/Kg	mg/Kg	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			4,480	33	9,240	37	9,250	40	14,800	41	-	-	-	-	-	-	-	-
Antimony			< 3.3	3.3	< 3.7	3.7	< 4.0	4.0	< 4.1	4.1	-	-	-	-	-	-	-	-
Arsenic	13	16	2.28	0.67	0.97	0.73	2.3	0.80	5.94	0.82	-	-	-	-	-	-	-	-
Barium	350	400	29.5	0.7	55.4	0.7	41.4	0.8	44.2	0.8	-	-	-	-	-	-	-	-
Beryllium	7.2	72	0.25	0.27	< 0.29	0.29	< 0.32	0.32	< 0.33	0.33	-	-	-	-	-	-	-	-
Cadmium	2.5	4.3	0.6	0.33	0.5	0.37	0.82	0.40	1.16	0.41	-	-	-	-	-	-	-	-
Calcium			2,490	3.3	3,490	3.7	1,170	4.0	862	4.1	-	-	-	-	-	-	-	-
Chromium	30	180	11.7	0.33	45.6	0.37	18.9	0.40	14.7	0.41	-	-	-	-	-	33.7	0.39	20.9
Chromium, Hex.	1	110	< 0.43	0.43	0.69	0.41	< 0.42	0.42	< 0.46	0.46	-	-	-	-	-	0.54	0.38	< 0.41
Cobalt			5	0.33	6.76	0.37	6.54	0.40	11.7	0.41	-	-	-	-	-	-	-	-
Copper	50	270	8.8	0.7	14.2	0.7	83.5	0.8	27.1	0.8	-	-	12.6	0.8	11	0.8	-	-
Iron			18,400	33	14,300	37	15,500	40	27,700	41	-	-	-	-	-	-	-	-
Lead	63	400	3.8	0.7	3.6	0.7	29.8	0.8	13	0.8	8.4	0.8	-	-	-	-	-	-
Magnesium			2,400	3.3	3,190	3.7	1,700	4.0	4,320	4.1	-	-	-	-	-	-	-	-
Manganese	1,600	2,000	163	0.3	101	0.37	279	4.0	578	4.1	-	-	-	-	-	-	-	-
Mercury	0.18	0.81	< 0.03	0.03	< 0.03	0.03	0.04	0.03	0.04	0.03	-	-	-	-	-	-	-	-
Nickel	30	310	10.4	0.33	16.9	0.37	13.1	0.40	19.3	0.41	-	-	-	-	-	-	-	-
Potassium			748	67	1,180	7	739	8	1,000	8	-	-	-	-	-	-	-	-
Selenium	3.9	180	< 1.3	1.3	< 1.5	1.5	< 1.6	1.6	< 1.6	1.6	-	-	-	-	-	-	-	-
Silver	2	180	< 0.33	0.33	< 0.37	0.37	< 0.40	0.40	< 0.41	0.41	-	-	-	-	-	-	-	-
Sodium			130	7	763	7	57	8	65	8	-	-	-	-	-	-	-	-
Thallium			< 1.3	1.3	< 1.5	1.5	< 1.6	1.6	< 1.6	1.6	-	-	-	-	-	-	-	-
Vanadium			20	0.33	33.5	0.37	23.8	0.40	19.7	0.41	-	-	-	-	-	-	-	-
Zinc	109	10,000	20.9	0.7	23.8	0.7	111	0.8	100	0.8	22	0.8	37.5	0.8	-	-	-	-

Notes:

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

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance

Table 19
 69-02 Queens Blvd, Brooklyn, New York
 Hotspot Endpoint Soil Sample Laboratory Results
 Lead/TCLP Lead

				Hotspot Endpoint Sample Results																			
COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives*	3PB BOT		2PB BOT		2PB N		3PB1		3PB2		3PB3		2PB1		2PB2		2PB3		Duplicate	
				(4-6")		(8-10")		(4-8")		(0-4")		(0-4")		(0-4")		(0-8")		(0-8")		(0-8")			
				2/12/2021		2/12/2021		2/12/2021		2/12/2021		2/12/2021		2/12/2021		2/12/2021		2/12/2021		2/12/2021		2/12/2021	
				mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L		mg/Kg - mg/L	
				Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Lead	63	400		23.1	0.38	9.89	0.37	51.2	0.32	86.5	0.8	111	0.7	101	0.7	13.6	0.8	444	0.8	199	0.7	87.7	0.7
TCLP Lead			5	< 0.10	0.10	< 0.10	0.10	< 0.10	0.10	0.07	0.10	0.06	0.10	0.11	0.10	< 0.10	0.10	0.44	0.10	0.41	0.10	0.11	0.10

Notes:
 * - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
 RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSO Guidance Value
Bold/highlighted- Indicated exceedance of the TCLP Regulatory Limit

Table 20
69-02 Queens Blvd.
Queens, New York
Endpoint Soil Analytical Results
PFAS

Compound	EBC Endpoint Samples																			
	EP4		EP42		EP47		EP50		EP54		EP60		EP16		EP25		Soil Duplicate		Soil Duplicate	
																	EP4		EP47	
	5/24/2021		3/23/2021		8/12/2021		3/31/2021		3/23/2021		3/31/2021		9/27/2021		9/27/2021		5/24/2021		8/12/2021	
	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Perfluorobutanoic Acid (PFBA)	ND	0.536	0.026J	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluoropentanoic Acid (PFPeA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluorobutanesulfonic Acid (PFBS)	ND	0.268	ND	0.272	ND	0.247	ND	0.272	ND	0.238	ND	0.247	ND	0.28	ND	0.262	ND	0.27	ND	0.246
Perfluorohexanoic Acid (PFHxA)	0.059J	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	0.061J	0.54	ND	0.493
Perfluoroheptanoic Acid (PFHpA)	ND	0.268	ND	0.272	ND	0.247	ND	0.272	ND	0.238	ND	0.247	ND	0.28	ND	0.262	ND	0.27	ND	0.246
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.268	ND	0.272	ND	0.247	ND	0.272	ND	0.238	ND	0.247	ND	0.28	ND	0.262	ND	0.27	ND	0.246
Perfluorooctanoic Acid (PFOA)	0.082J	0.268	0.135J	0.272	ND	0.247	ND	0.272	ND	0.238	0.119J	0.247	ND	0.28	0.057J	0.262	0.070J	0.27	ND	0.246
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluorononanoic Acid (PFNA)	ND	0.268	ND	0.272	ND	0.247	ND	0.272	ND	0.238	ND	0.247	ND	0.28	ND	0.262	ND	0.27	ND	0.246
Perfluorooctanesulfonic Acid (PFOS)	ND	0.268	ND	0.272	ND	0.247	ND	0.272	ND	0.238	0.168J	0.247	ND	0.28	ND	0.262	ND	0.27	ND	0.246
Perfluorodecanoic Acid (PFDA)	ND	0.268	ND	0.272	ND	0.247	ND	0.272	ND	0.238	ND	0.247	ND	0.28	ND	0.262	ND	0.27	ND	0.246
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluoroundecanoic Acid (PFUnA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluorodecanesulfonic Acid (PFDS)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluorooctanesulfonamide (FOSA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluorododecanoic Acid (PFDoA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluorotridecanoic Acid (PFTriDA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Perfluorotetradecanoic Acid (PFTA)	ND	0.536	ND	0.544	ND	0.495	ND	0.543	ND	0.477	ND	0.494	ND	0.561	ND	0.524	ND	0.54	ND	0.493
Combined PFOA and PFOS	0.082J		0.135J		ND		ND		ND		0.287J		ND		0.057J		0.070J		ND	
Combined Total Detections	0.141J		0.161J		ND		ND		ND		0.287J		ND		0.057J		0.131J		ND	

Compound	EP1		EP4		EP6		EP39		EP42		EP44		EP50		Soil Duplicate		Soil Duplicate		Soil Duplicate	
															EP42		EP59		EP1	
	5/19/2021		5/24/2021		5/19/2021		3/31/2021		3/23/2021		3/23/2021		3/31/2021		3/23/2021		3/31/2021		5/19/2021	
	µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,4-dioxane	< 73	73	< 73	73	< 72	72	< 77	77	< 82	82	< 71	71	< 71	71	< 86	86	< 75	75	< 72	72

Notes:
DL- Detection Limit
J- The value is estimated.
ND- Not Detected
The USEPA Health Advisory Level for drinking water is 70 ng/L (ppt) for combined detections of PFOA and PFOS

Table 21
69-02 Queens Blvd, Brooklyn, New York
Post Injection - Groundwater Samples -
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	Post Injection Groundwater Sample Results															
		19MW9															
		9/3/2020		10/6/2020		12/14/2020		4/26/2021		5/5/2021		7/30/2021		8/26/2021		9/22/2021	
		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
1,1,1,2-Tetrachloroethane	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	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
1,1,2,2-Tetrachloroethane	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1,2-Trichloroethane	1	<1.0	1.0	<2.5	2.5	<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-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
1,1-Dichloroethene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1-Dichloropropene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,2,3-Trichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<2.0	2.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,2,3-Trichloropropane	0.04	<0.25	0.25	<2.5	2.5	<0.25	0.25	<5.0	5.0	<5.0	5.0	<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	<2.0	2.0	<2.0	2.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,2,4-Trimethylbenzene	5	700	1.0	440	50	240	10	590	20	590	400	58	1.0	41	1.0	6.9	1.0
1,2-Dibromo-3-chloropropane	0.04	<0.50	0.50	<5.0	5.0	<0.50	0.50	<1.0	1.0	<1.0	1.0	<0.50	0.50	<0.50	0.50	<0.50	0.50
1,2-Dibromoethane	0.0006	<0.25	0.25	<2.5	2.5	<0.25	0.25	<5.0	5.0	<5.0	5.0	<0.25	0.25	<0.25	0.25	<0.25	0.25
1,2-Dichlorobenzene		<1.0	1.0	<4.7	4.7	<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-Dichloroethane	0.6	<0.60	0.60	<5.0	5.0	<0.60	0.60	<1.0	1.0	<1.0	1.0	<0.60	0.60	<0.60	0.60	<0.60	0.60
1,2-Dichloropropane	1	<1.0	1.0	<2.5	2.5	<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	130	1.0	9.6	5.0	0.77	1.0	130	20	160	20	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,3-Dichlorobenzene	3	<1.0	1.0	<3.0	3.0	<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	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,4-Dichlorobenzene		<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,4-Dioxane		<5000	5,000	<1000	1,000	<100	100	<2000	2,000	<2000	2,000	<100	100	<100	100	<100	100
2,2-Dichloropropane	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
2-Chlorotoluene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
2-Hexanone (Methyl Butyl Ketone)	50	<2.5	2.5	<25	25	<2.5	2.5	<50	50	<50	50	<2.5	2.5	<2.5	2.5	<2.5	2.5
2-Isopropyltoluene	5	1.8	1.0	<5.0	5.0	0.94	1.0	6.8	5.0	7.9	5.0	1.4	1.0	0.76	1.0	0.5	1.0
4-Chlorotoluene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
4-Methyl-2-Pentanone		<2.5	2.5	<25	25	<2.5	2.5	<50	50	<50	50	<2.5	2.5	<2.5	2.5	<2.5	2.5
Acetone	50	<5.0	5.0	<50	50	<5.0	5.0	<50	50	<50	50	19	5.0	28	5.0	8.5	5.0
Acrolein	5	<5.0	5.0	<25	25	<5.0	5.0	<50	50	<50	50	<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	<1.0	1.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
Benzene	1	29	0.70	13	7.0	6.9	0.70	150	14	110	14	0.46	0.70	0.3	0.70	0.31	0.70
Bromobenzene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Bromochloromethane	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Bromodichloromethane	50	<1.0	1.0	<10	10	<1.0	1.0	<20	20	<20	20	<1.0	1.0	<1.0	1.0	<1.0	1.0
Bromoform	50	<5.0	5.0	<50	50	<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	<5.0	5.0	<5.0	5.0	<5.0	5.0	0.93	5.0	<5.0	5.0
Carbon Disulfide		<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<2.0	2.0	0.46	1.0	0.81	1.0	0.73	1.0
Carbon tetrachloride	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	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	<5.0	5.0	<5.0	5.0	<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	<7.0	7.0	<5.0	5.0	<7.0	7.0	<7.0	7.0	<5.0	5.0	20	5.0	<5.0	5.0
Chloromethane	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	0.26	5.0	<5.0	5.0
cis-1,2-Dichloroethene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
cis-1,3-Dichloropropene	0.04	<0.40	0.40	<2.5	2.5	<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	50	<1.0	1.0	<10	10	<1.0	1.0	<20	20	<20	20	<1.0	1.0	<1.0	1.0	<1.0	1.0
Dibromomethane	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Dichlorodifluoromethane	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Ethylbenzene	5	1,100	1.0	440	50	240	10	320	20	390	20	4	1.0	7.5	1.0	2.7	1.0
Hexachlorobutadiene	0.5	<0.50	0.50	<2.0	2.0	<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	67	1.0	35	10	21	1.0	160	20	230	20	14	1.0	9.2	1.0	5.5	1.0
m&p-Xylenes	5	1,300	1.0	180	10	23	1.0	330	20	320	20	2.7	1.0	3	1.0	1.1	1.0
Methyl Ethyl Ketone (2-Butanone)	50	<2.5	2.5	<25	25	<2.5	2.5	<50	50	<50	50	<2.5	2.5	14	2.5	<2.5	2.5
Methyl t-butyl ether (MTBE)		<1.0	1.0	<10	10	<1.0	1.0	<20	20	<20	20	1.8	1.0	<1.0	1.0	0.98	1.0
Methylene chloride	5	<3.0	3.0	<5.0	5.0	<3.0	3.0	<1.0	1.0	<1.0	1.0	<3.0	3.0	1.2	3.0	<3.0	3.0
Naphthalene	10	250	1.0	82	10	12	1.0	230	20	210	20	<1.0	1.0	3	1.0	1.1	1.0
n-Butylbenzene	5	8.5	1.0	5.5	5.0	3.4	1.0	30	20	60	20	5	1.0	4.3	1.0	1.4	1.0
n-Propylbenzene	5	180	1.0	91	10	56	1.0	440	20	590	400	37	1.0	37	1.0	16	1.0
o-Xylene	5	390	1.0	13	10	4.7	1.0	32	20	39	20	<1.0	1.0	<1.0	1.0	<1.0	1.0
p-Isopropyltoluene	5	4.1	1.0	<5.0	5.0	1.4	1.0	5.7	5.0	10	5.0	1.6	1.0	0.91	1.0	0.34	1.0
sec-Butylbenzene	5	7.3	1.0	8.3	5.0	3.2	1.0	28	20	44	20	9.5	1.0	6	1.0	2.8	1.0
Styrene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
Tert-butyl alcohol		<50	50	<500	500	<50	50	<1000	1,000	<1000	1,000	71	50	<50	50	43	50
tert-Butylbenzene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	0.29	1.0	<1.0	1.0	<1.0	1.0
Tetrachloroethene	5	<1.0	1.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0

Table 21
69-02 Queens Blvd, Brooklyn, New York
Post Injection - Groundwater Samples -
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	Post Injection Groundwater Sample Results															
		20MW10															
		9/3/2020		10/6/2020		12/14/2020		4/26/2021		5/5/2021		7/30/2021		8/26/2021		9/22/2021	
		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
1,1,1,2-Tetrachloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<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
1,1,2,2-Tetrachloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<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	<1.3	1.3	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1-Dichloroethane	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<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	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,1-Dichloropropene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,2,3-Trichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<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	<0.50	0.50	<1.3	1.3	<0.50	0.50	<0.25	0.25	<0.25	0.25
1,2,4-Trichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,2,4-Trimethylbenzene	5	<1.0	1.0	0.82	1.0	<1.0	1.0	23	2.0	67	5.0	6.5	2.0	0.37	1.0	1.5	1.0
1,2-Dibromo-3-chloropropane	0.04	<0.50	0.50	<0.50	0.50	<0.50	0.50	<1.0	1.0	<2.5	2.5	<1.0	1.0	<0.50	0.50	<0.50	0.50
1,2-Dibromoethane	0.0006	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.50	0.50	<1.3	1.3	<0.50	0.50	<0.25	0.25	<0.25	0.25
1,2-Dichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<4.7	4.7	<2.0	2.0	<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	<2.5	2.5	<1.0	1.0	<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	1.3	<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	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,3-Dichlorobenzene	3	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<3.0	3.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,3-Dichloropropane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,4-Dichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,4-Dioxane		<100	100	<100	100	<100	100	<200	200	<500	500	<200	200	<100	100	<100	100
2,2-Dichloropropane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
2-Chlorotoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
2-Hexanone (Methyl Butyl Ketone)	50	<2.5	2.5	<2.5	2.5	<2.5	2.5	<5.0	5.0	<13	13	<5.0	5.0	<2.5	2.5	<2.5	2.5
2-Isopropyltoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	4	2.0	7.7	5.0	2.7	2.0	<1.0	1.0	1.9	1.0
4-Chlorotoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
4-Methyl-2-Pentanone		<2.5	2.5	<2.5	2.5	<2.5	2.5	<5.0	5.0	<13	13	<5.0	5.0	<2.5	2.5	<2.5	2.5
Acetone	50	45	5.0	<5.0	5.0	<5.0	5.0	11	10	<25	25	24	10	22	5.0	<5.0	5.0
Acrolein	5	<5.0	5.0	<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
Acrylonitrile	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
Benzene	1	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	1.4	1.3	<0.70	0.70	<0.70	0.70	0.53	0.70
Bromobenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Bromochloromethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Bromodichloromethane	50	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Bromoform	50	<5.0	5.0	<5.0	5.0	<5.0	5.0	<10	10	<25	25	<10	10	<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	1.6	5.0	<5.0	5.0
Carbon Disulfide		0.3	1.0	0.49	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Carbon tetrachloride	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<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	<5.0	5.0	<5.0	5.0	<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	<7.0	7.0	20	5.0	<5.0	5.0
Chloromethane	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	0.36	5.0	<5.0	5.0
cis-1,2-Dichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
cis-1,3-Dichloropropene	0.04	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	<1.3	1.3	<0.50	0.50	<0.40	0.40	<0.40	0.40
Dibromochloromethane	50	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Dibromomethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Dichlorodifluoromethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Ethylbenzene	5	<1.0	1.0	2.2	1.0	0.27	1.0	2.9	2.0	5.7	5.0	1.1	2.0	<1.0	1.0	1.7	1.0
Hexachlorobutadiene	0.5	<0.50	0.50	<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
Isopropylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	24	2.0	68	5.0	17	2.0	1.5	1.0	16	1.0
m&p-Xylenes	5	<1.0	1.0	1.1	1.0	0.73	1.0	<2.0	2.0	<5.0	5.0	0.79	2.0	<1.0	1.0	<1.0	1.0
Methyl Ethyl Ketone (2-Butanone)	50	6.2	2.5	<2.5	2.5	<2.5	2.5	<5.0	5.0	<13	13	<5.0	5.0	<2.5	2.5	<2.5	2.5
Methyl t-butyl ether (MTBE)		<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Methylene chloride	5	<3.0	3.0	<3.0	3.0	<3.0	3.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<3.0	3.0	<3.0	3.0
Naphthalene	10	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	2.1	2.0	<1.0	1.0	1	1.0
n-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	7.2	2.0	25	5.0	9.2	2.0	1.1	1.0	4.8	1.0
n-Propylbenzene	5	<1.0	1.0	0.32	1.0	<1.0	1.0	110	2.0	330	20	76	2.0	7.4	1.0	49	5.0
o-Xylene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
p-Isopropyltoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	4	2.0	11	5.0	2.9	2.0	0.34	1.0	2.3	1.0
sec-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	19	2.0	54	5.0	26	2.0	1.9	1.0	14	1.0
Styrene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Tert-butyl alcohol		<50	50	<50	50	<50	50	<100	100	<250	250	<100	100	<50	50	<50	50
tert-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<5.0	5.0	<2.0	2.0	<1.0	1.0		

Table 21
69-02 Queens Blvd, Brooklyn, New York
Post Injection - Groundwater Samples -
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	Post Injection Groundwater Sample Results															
		20MW11															
		9/3/2020		10/6/2020		12/14/2020		4/26/2021		5/5/2021		7/30/2021		8/26/2021		9/22/2021	
		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
1,1,1,2-Tetrachloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<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
1,1,2,2-Tetrachloroethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,1,2-Trichloroethane	1	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,1-Dichloroethane	5	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0
1,1-Dichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<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	<1.0	1.0	<2.0	2.0	<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	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,2,3-Trichloropropane	0.04	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.50	0.50	<0.25	0.25	<0.25	0.25
1,2,4-Trichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,2,4-Trimethylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	160	2.0	52	1.0	2.6	1.0
1,2-Dibromo-3-chloropropane	0.04	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<1.0	1.0	<0.50	0.50	<0.50	0.50
1,2-Dibromoethane	0.0006	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.25	0.25	<0.50	0.50	<0.25	0.25	<0.25	0.25
1,2-Dichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,2-Dichloroethane	0.6	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<0.60	0.60	<1.0	1.0	<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	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0
1,3,5-Trimethylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	37	2.0	12	1.0	0.86	1.0
1,3-Dichlorobenzene	3	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,3-Dichloropropane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,4-Dichlorobenzene		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
1,4-Dioxane		<100	100	<100	100	<100	100	<100	100	<100	100	<200	200	<100	100	<100	100
2,2-Dichloropropane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
2-Chlorotoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
2-Hexanone (Methyl Butyl Ketone)	50	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<5.0	5.0	<2.5	2.5	<2.5	2.5
2-Isopropyltoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
4-Chlorotoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
4-Methyl-2-Pentanone		<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<5.0	5.0	<2.5	2.5	<2.5	2.5
Acetone	50	3.4	5.0	<5.0	5.0	<5.0	5.0	12	5.0	<5.0	5.0	<10	10	<5.0	5.0	3.1	5.0
Acrolein	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
Acrylonitrile	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
Benzene	1	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	<0.70	0.70	0.36	0.70
Bromobenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Bromochloromethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Bromodichloromethane	50	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Bromoform	50	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<10	10	<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
Carbon Disulfide		<1.0	1.0	<1.0	1.0	<1.0	1.0	0.89	1.0	0.74	1.0	<2.0	2.0	<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	<1.0	1.0	<2.0	2.0	<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	<5.0	5.0	<5.0	5.0	<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	<5.0	5.0	<5.0	5.0
Chloromethane	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
cis-1,2-Dichloroethene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
cis-1,3-Dichloropropene	0.04	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.50	0.50	<0.40	0.40	<0.40	0.40
Dibromochloromethane	50	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Dibromomethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Dichlorodifluoromethane	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Ethylbenzene	5	<1.0	1.0	0.27	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	75	2.0	58	1.0	9	1.0
Hexachlorobutadiene	0.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50
Isopropylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7.5	2.0	6.8	1.0	1.2	1.0
m&p-Xylenes	5	<1.0	1.0	<1.0	1.0	0.28	1.0	<1.0	1.0	<1.0	1.0	200	2.0	23	1.0	1.5	1.0
Methyl Ethyl Ketone (2-Butanone)	50	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<2.5	2.5	<5.0	5.0	<2.5	2.5	<2.5	2.5
Methyl t-butyl ether (MTBE)		<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Methylene chloride	5	<3.0	3.0	<3.0	3.0	<3.0	3.0	<3.0	3.0	<3.0	3.0	<5.0	5.0	<3.0	3.0	<3.0	3.0
Naphthalene	10	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	32	2.0	20	1.0	4.2	1.0
n-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	3.2	2.0	3.2	1.0	0.56	1.0
n-Propylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	21	2.0	19	1.0	2.2	1.0
o-Xylene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	52	2.0	2.9	1.0	<1.0	1.0
p-Isopropyltoluene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	1	2.0	0.71	1.0	<1.0	1.0
sec-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	1.7	1.0	0.44	1.0
Styrene	5	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	<1.0	1.0	<1.0	1.0
Tert-butyl alcohol		<50	50	<50	50	<50	50	<50	50	<50	50	<100	100	<50	50	<50	50
tert-Butylbenzene	5	<1.0	1.0	<1.0	1.0	<1.0											

Table 21
69-02 Queens Blvd, Brooklyn, New York
Post Injection - Groundwater Samples -
Volatile Organic Compounds

		Post Injection Groundwater Sample Results											
Compound	NYSDEC Groundwater Quality Standards	GW Duplicate		GW Duplicate		GW Duplicate		GW Duplicate		GW Duplicate		GW Duplicate	
		9/3/2020		4/26/2021		5/5/2021		7/30/2021		8/26/2021		9/22/2021	
		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		Result	RL	Result	RL	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	< 1.0	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
1,1,2,2-Tetrachloroethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1,2-Trichloroethane	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	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
1,1-Dichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,1-Dichloropropene	5	< 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		< 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-Trichloropropane	0.04	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2,4-Trichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	160	10	27	1.0	8.3	1.0
1,2-Dibromo-3-chloropropane	0.04	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
1,2-Dibromoethane	0.0006	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25
1,2-Dichlorobenzene		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,2-Dichloroethane	0.6	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60
1,2-Dichloropropane	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	37	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichlorobenzene	3	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,3-Dichloropropane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
1,4-Dichlorobenzene		< 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	< 100	100	< 100	100	< 100	100
2,2-Dichloropropane	5	< 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	< 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-Hexanone (Methyl Butyl Ketone)	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
2-Isopropyltoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	0.63	1.0	0.55	1.0
4-Chlorotoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
4-Methyl-2-Pentanone		< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Acetone	50	3.3	5.0	11	5.0	< 5.0	5.0	< 5.0	5.0	29	5.0	7.4	5.0
Acrolein	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
Acrylonitrile	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
Benzene	1	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70	0.31	0.70	0.32	0.70
Bromobenzene	5	< 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	< 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	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
Bromofrom	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	< 5.0	5.0	0.82	5.0	< 5.0	5.0
Carbon Disulfide		< 1.0	1.0	0.89	1.0	0.66	1.0	< 1.0	1.0	0.83	1.0	0.59	1.0
Carbon tetrachloride	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 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
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
Chloroform	7	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	19	5.0	< 5.0	5.0
Chloromethane	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	0.44	5.0	< 5.0	5.0
cis-1,2-Dichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
cis-1,3-Dichloropropene	0.04	< 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	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
Dibromomethane	5	< 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	< 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	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	76	1.0	6.9	1.0	3	1.0
Hexachlorobutadiene	0.5	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	7.4	1.0	8.8	1.0	5.8	1.0
m&p-Xylenes	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	190	10	2.6	1.0	1.5	1.0
Methyl Ethyl Ketone (2-Butanone)	50	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	15	2.5	< 2.5	2.5
Methyl t-butyl ether (MTBE)		< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	0.95	1.0
Methylene chloride	5	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0	< 3.0	3.0
Naphthalene	10	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	33	1.0	3.1	1.0	1.2	1.0
n-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	2.2	1.0	4.1	1.0	1.6	1.0
n-Propylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	21	1.0	34	1.0	17	1.0
o-Xylene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	56	1.0	< 1.0	1.0	< 1.0	1.0
p-Isopropyltoluene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	1	1.0	0.76	1.0	0.37	1.0
sec-Butylbenzene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	5.6	1.0	3.1	1.0
Styrene	5	< 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	< 50	50	29	50
tert-Butylbenzene	5	< 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	< 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	< 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	< 1.0	1.0	< 1.0	1.0	0.3	1.0	0.77	1.0	0.45	1.0	< 1.0	1.0
trans-1,2-Dichloroethene	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Trichloroethene	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorofluoromethane	5	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0
Trichlorotrifluoroethane	5	< 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	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0

Notes:

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standards

Table 27
69-02 Queens Blvd, Brooklyn, New York
Remaining Groundwater Exceedances

Compound	Range of Exceedances	Frequency of Detection	19MW1	19MW2	19MW3	19MW4	19MW5	19MW6	19MW7	19MW8	19MW9	19MW9	20MW10	20MW11
			12/2/2019	11/26/2019	11/26/2019	12/2/2019	11/26/2019	12/2/2019	12/2/2019	12/2/2019	11/26/2019	9/22/2021	9/22/2021	9/22/2021
Sample Results in ug/L														
1,2,4-Trimethylbenzene	6.9-6.9	1	-	-	-	-	-	-	-	-	-	6.9	-	-
Ethylbenzene	9-9	1	-	-	-	-	-	-	-	-	-	-	-	9
Isopropylbenzene	5.5-16	2	-	-	-	-	-	-	-	-	-	5.5	16	-
n-Propylbenzene	16-49	2	-	-	-	-	-	-	-	-	-	16	49	-
sec-Butylbenzene	14-14	1	-	-	-	-	-	-	-	-	-	-	14	-
Sample Results in ug/L														
2,4-Dinitrotoluene	34-34	1	-	-	-	-	-	-	-	-	34	-	-	-
Benzo(a)anthracene	0.04-0.04	1	-	-	-	-	-	-	0.04	-	-	-	-	-
Benzo(a)pyrene	0.02-0.02	1	-	-	-	-	-	-	0.02	-	-	-	-	-
Benzo(b)fluoranthene	0.02-0.02	1	-	-	-	-	-	-	0.02	-	-	-	-	-
Benzo(k)fluoranthene	0.03-0.03	1	-	-	-	-	-	-	0.03	-	-	-	-	-
Chrysene	0.04-0.04	1	-	-	-	-	-	-	0.04	-	-	-	-	-
Naphthalene	74-74	1	-	-	-	-	-	-	-	-	74	-	-	-
Sample Results in mg/L														
Aluminum (Total)	0.121-22.7	8	1.42	10.6	-	1.53	0.177	22.7	0.121	0.692	1.14	-	-	-
Calcium (Total)	0.059-0.059	1	-	-	-	-	-	0.059	-	-	-	-	-	-
Copper (Total)	0.96-48.1	6	3.35	14.8	-	4.39	-	48.1	-	0.96	4.16	-	-	-
Iron (Total)	0.102-0.102	1	-	-	-	-	-	0.102	-	-	-	-	-	-
Lead (Total)	37.1-58	4	37.6	-	-	-	-	58	47.8	-	37.1	-	-	-
Magnesium (Total)	0.448-2.85	7	2.81	2.58	-	1.81	0.448	1.34	0.843	-	2.85	-	-	-
Selenium (Total)	0.012-0.017	2	-	-	0.012	-	-	-	0.017	-	-	-	-	-
Sodium (Total)	26.8-163	8	94.9	38.3	62.2	163	142	26.8	48.4	-	114	-	-	-
Sample Results in mg/L														
Antimony (Dissolved)	0.0054-0.0054	1	-	-	-	-	-	0.0054	-	-	-	-	-	-
Selenium (Dissolved)	0.012-0.016	2	-	-	0.012	-	-	-	0.016	-	-	-	-	-
Magnesium (Dissolved)	36.1-46.9	4	36.1	-	-	-	-	41.2	46.9	-	37.4	-	-	-
Manganese (Dissolved)	0.329-2.94	7	2.7	2.33	-	1.79	0.448	0.329	0.83	-	2.94	-	-	-
Sodium (dissolved)	25.1-163	8	93	36.5	56.6	163	152	25.1	48.5	-	118	-	-	-

Notes:

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 28
69-02 Queens Blvd, Brooklyn, New York
Soil Vapor Exceedances

COMPOUNDS	Range of Exceedances	Frequency of Detection	RI Laboratory Results								
			SG4	SG5	SG6	SG7	SG8	SG9	SG10	SG11	SG12
			11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019	11/25/2019
1,1,1-Trichloroethane	1.36-1.36	1	1.36	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	1.06-1.11	2	-	-	-	-	-	1.11	1.06	-	-
1,3-Dichlorobenzene	1.53-2.36	6	-	-	-	1.86	1.56	2.36	1.8	1.53	1.71
4-Ethyltoluene	1.04-1.04	1	-	-	-	-	-	-	1.04	-	-
4-Methyl-2-pentanone	1.44-2.33	7	1.44	-	-	1.94	1.89	1.5	1.67	2.02	2.33
Acetone	13.6-451	9	13.6	229	451	52.7	43.9	249	90.9	163	449
Benzene	1.22-2.45	8	1.92	-	1.22	1.65	1.45	2.45	1.48	2.21	1.48
Carbon Disulfide	7.5-11.8	3	10.3	-	7.5	-	-	-	-	-	11.8
Carbon Tetrachloride	0.26-0.51	8	0.26	0.45	0.26	0.51	0.33	-	0.26	0.28	0.29
Chloroform	1.09-1.09	1	-	-	-	-	-	1.09	-	-	-
Chloromethane	1.36-6.6	7	6.6	2.17	-	2.11	1.36	-	1.97	3.24	6.6
cis-1,2-Dichloroethene	19.8-19.8	1	-	-	-	-	-	-	-	-	19.8
Cyclohexane	2.3-2.3	1	-	-	-	-	-	-	2.3	-	-
Dichlorodifluoromethane	1.04-1.77	4	1.04	1.39	-	1.77	1.15	-	-	-	-
Ethanol	24.9-70.8	9	24.9	27.7	40.1	30.7	44.6	61.6	25.4	36	70.8
Ethylbenzene	1.04-1.52	2	-	1.52	-	-	-	1.04	-	-	-
Heptane	1.01-25.1	6	25.1	1.01	-	1.09	-	3.06	5.45	-	1.76
Hexane	1.09-65.2	3	65.2	-	1.09	-	-	-	5.14	-	-
Isopropylalcohol	1.6-24	8	1.6	8.08	-	3.83	3.51	10.6	3.56	8.5	24
Xylene (m&p)	1.66-5.34	9	1.66	5.34	3.48	2.49	2.16	3.69	3.2	2.24	2.63
Methyl Ethyl Ketone	2.12-49.8	9	2.12	10.2	11.7	9.2	4.98	49.8	5.51	6.96	19.2
MTBE	1.17-1.17	1	-	-	1.17	-	-	-	-	-	-
Xylene (o)	1.02-1.6	3	-	1.6	-	-	-	1.35	1.02	-	-
Propylene	2.36-6.52	5	-	-	-	4.85	2.36	6.52	3.13	3.89	-
Tetrachloroethene	0.58-37.1	9	4.34	5.99	7.05	0.58	0.92	1	0.94	1.65	37.1
Tetrahydrofuran	1.37-10.3	3	10.3	-	-	1.44	-	-	-	1.37	-
Toluene	3.34-6.29	9	4.71	3.34	3.8	3.8	3.54	6.29	3.46	3.58	4.82
Trichloroethene	0.24-27.6	5	0.24	-	-	2.28	-	-	0.25	0.63	27.6
Trichlorofluoromethane	1.45-129	6	-	7.64	-	1.45	1.66	5.24	22.1	129	-

FIGURES

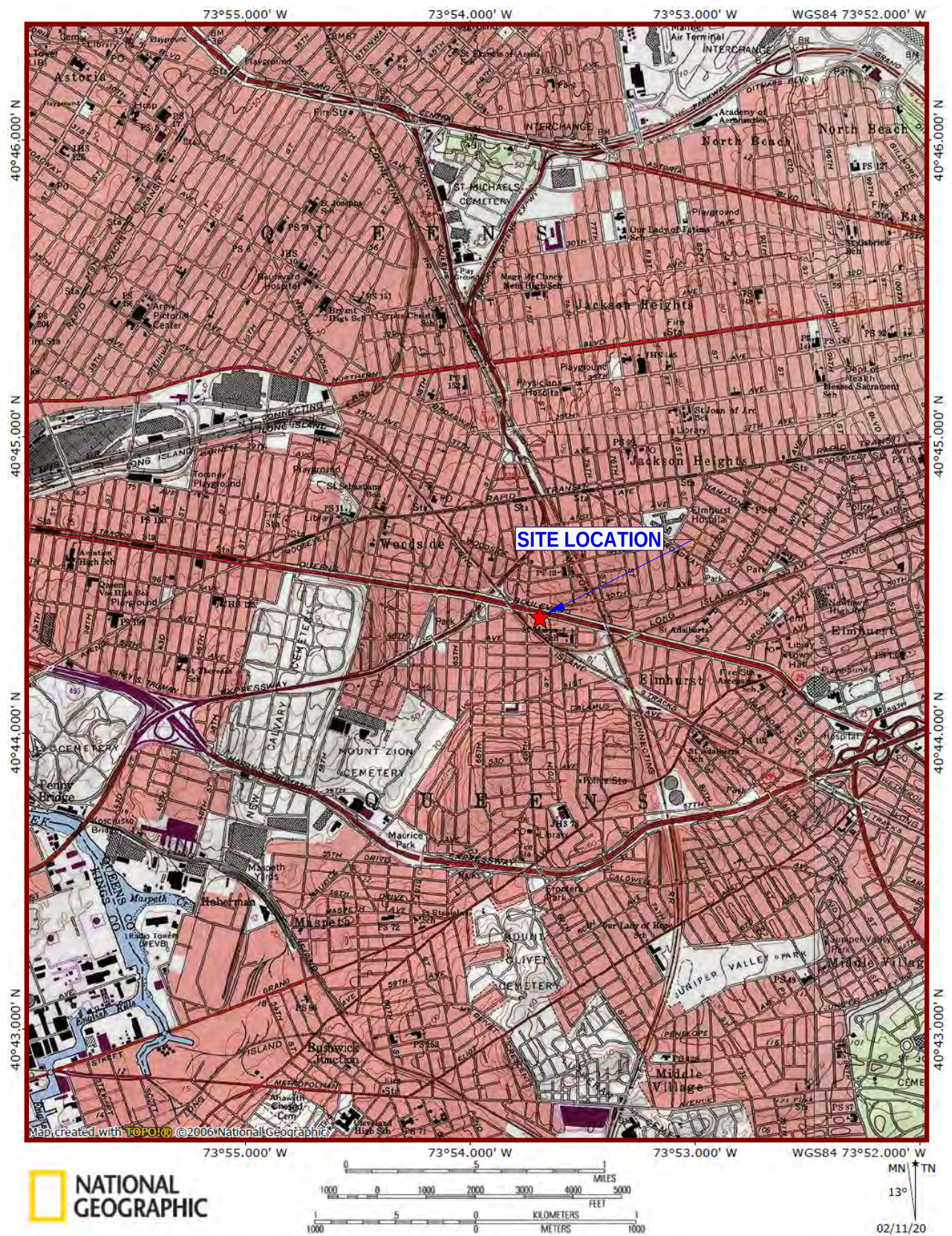
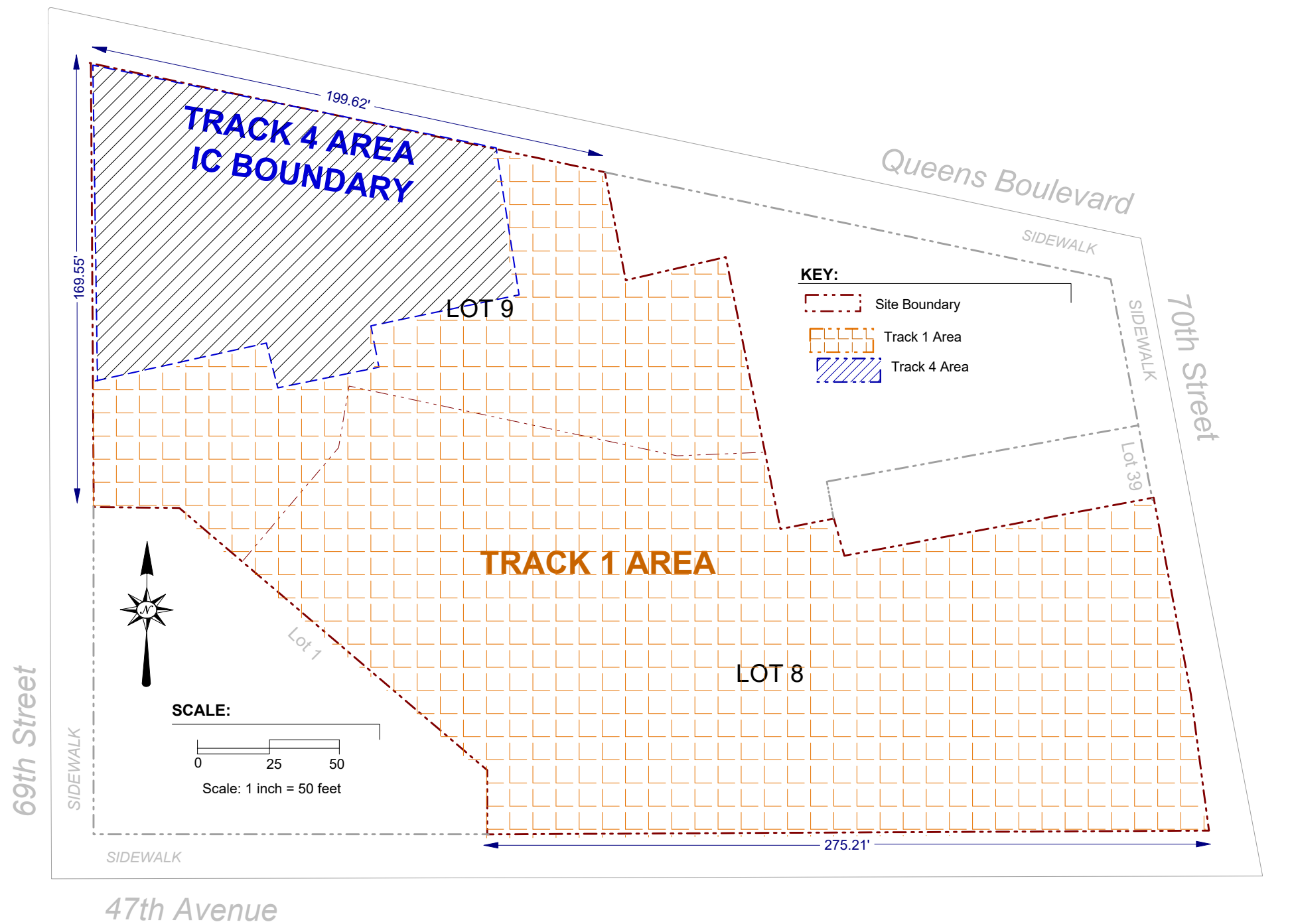


Figure No.
1

Site Name:	69-02 QUEENS BOULEVARD
Site Address:	46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY
Drawing Title:	SITE LOCATION MAP

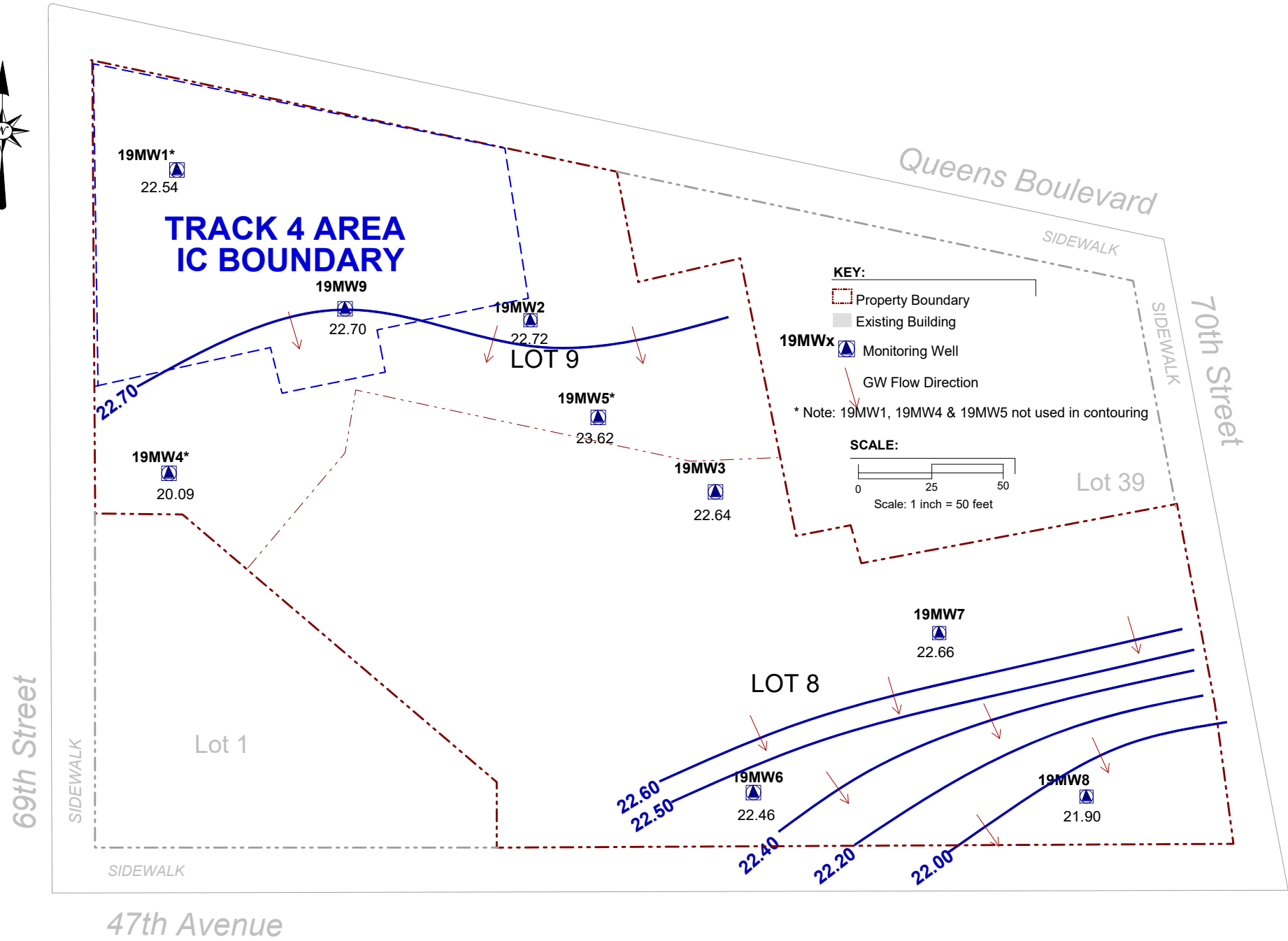


AMC Engineering, PLLC
18-36 42nd Street
Astoria, NY 11105

Figure No.
2

11/22/2021

Site Name: **69-02 QUEENS BOULEVARD - C241235**
Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**
Drawing Title: **SITE PLAN**



ENVIRONMENTAL BUSINESS CONSULTANTS

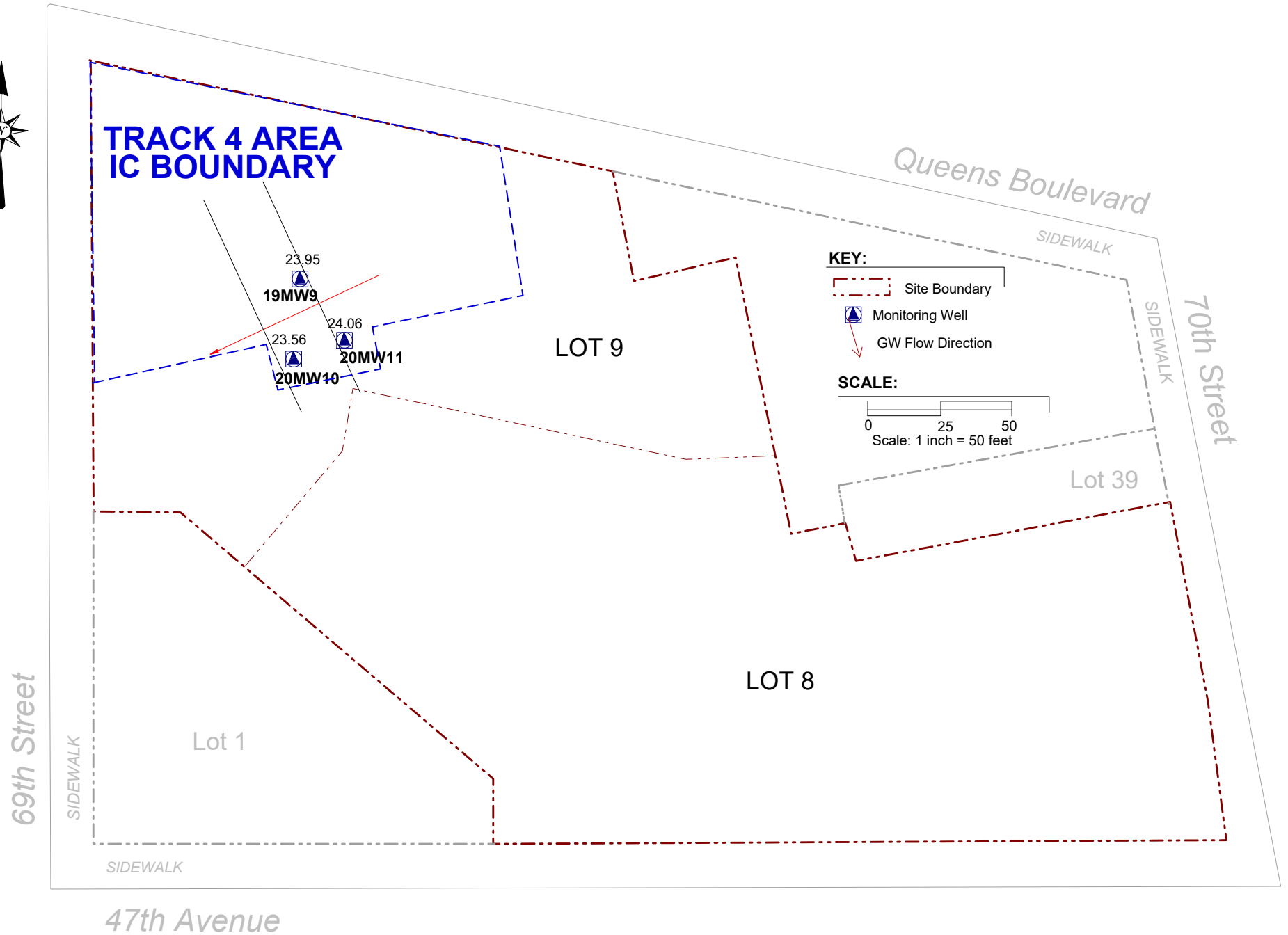
Phone 631.504.6000
Fax 631.924.2870

Figure No.
3A

Site Name: **69-02 QUEENS BOULEVARD - C241235**

Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

Drawing Title: **GROUNDWATER CONTOUR MAP - 11/26/2019**



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Figure No.
3B

11/29/2021

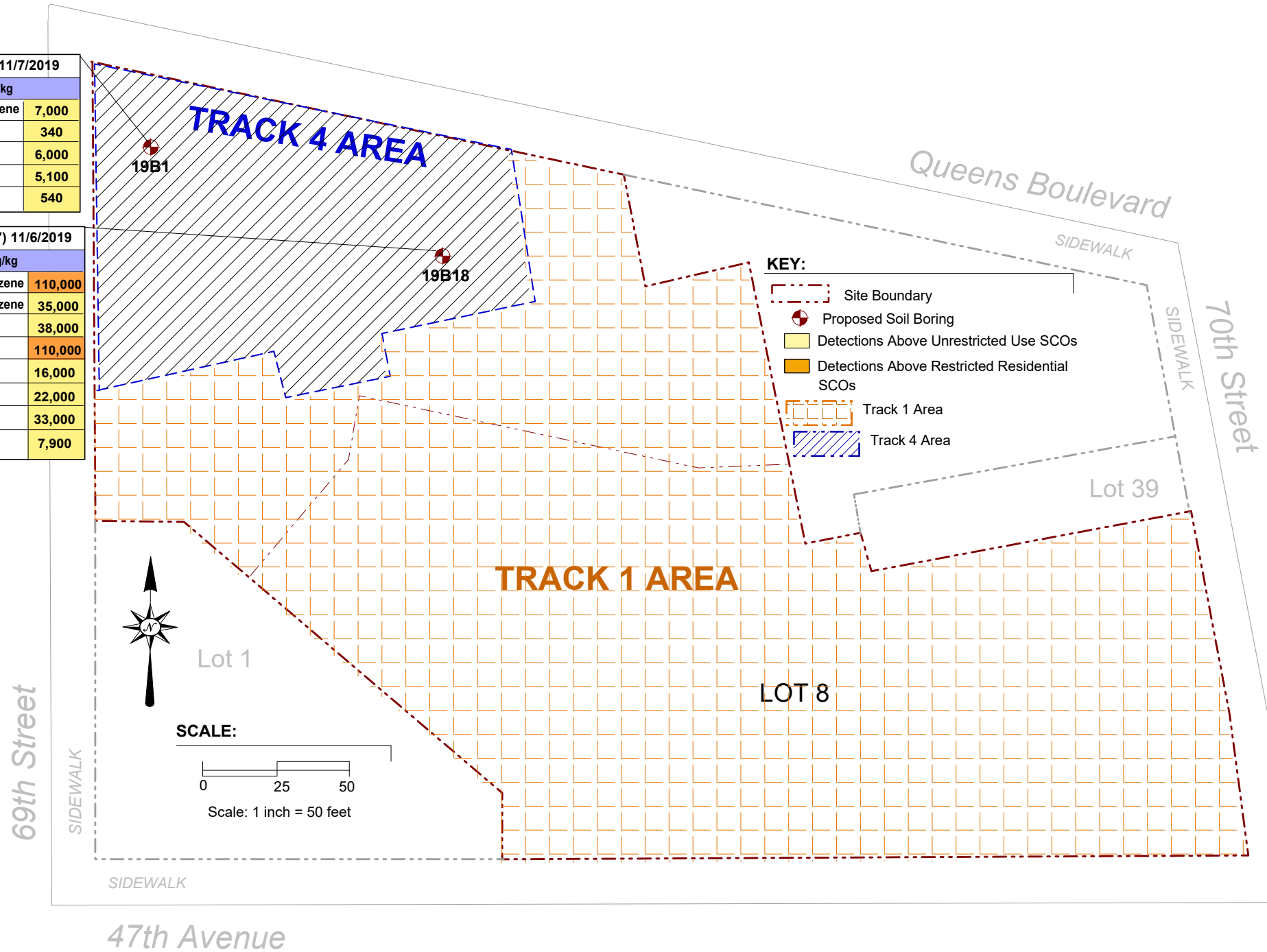
Site Name: **69-02 QUEENS BOULEVARD - C241235**

Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

Drawing Title: **GROUNDWATER CONTOUR MAP - 8/26/2021**

19B1 (20-22') 11/7/2019	
VOCs ug/kg	
1,2,4-Trimethylbenzene	7,000
Benzene	340
Ethylbenzene	6,000
m&p-Xylenes	5,100
O-Xylene	540

19B18 (18-20') 11/6/2019	
VOCs ug/kg	
1,2,4-Trimethylbenzene	110,000
1,3,5-Trimethylbenzene	35,000
Ethylbenzene	38,000
m&p-Xylenes	110,000
Naphthalene	16,000
n-Propylbenzene	22,000
O-Xylene	33,000
Toluene	7,900



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18-36 42nd Street
Astoria, NY 11105

Figure No.
4

11/29/2021

Site Name: **69-02 QUEENS BOULEVARD - C241235**
Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**
Drawing Title: **REMAINING SOIL EXCEEDANCES MAP**

SG10 - 11/25/2019	
1,2,4-Trimethylbenzene	1.06
1,3-Butadiene	1.8
2-Hexanone	1.04
4-Isopropyltoluene	1.67
4-Methyl-2-pentanone	90.9
Acrylonitrile	1.48
Carbon Disulfide	0.26
Chloroform	1.97
cis-1,3-Dichloropropene	2.3
Dichlorodifluoromethane	25.4
Ethylbenzene	5.45
Hexachlorobutadiene	5.14
Hexane	3.56
Isopropylbenzene	3.2
Xylene (m&p)	5.51
n-Butylbenzene	1.02
Xylene (o)	3.13
Styrene	0.94
Tetrahydrofuran	3.46
trans-1,3-Dichloropropene	0.25
Trichloroethene	22.1
BTEX	9.16
Total VOCs	181.64

SG6 - 11/25/2019	
Acetone	451
Benzene	1.22
Carbon Disulfide	7.5
Carbon Tetrachloride	0.26
Ethanol	40.1
Hexane	1.09
Xylene (m&p)	3.48
Methyl Ethyl Ketone	11.7
MTBE	1.17
Tetrachloroethene	7.05
Toluene	3.8
BTEX	8.5
Total VOCs	528.37

SG12 - 11/25/2019	
1,3-Butadiene	1.71
4-Isopropyltoluene	2.33
4-Methyl-2-pentanone	449
Acrylonitrile	1.48
Bromomethane	11.8
Carbon Disulfide	0.29
Chloroform	6.6
Chloromethane	19.8
Dichlorodifluoromethane	70.8
Ethylbenzene	1.76
Hexane	24
Isopropylbenzene	2.63
Xylene (m&p)	19.2
Styrene	37.1
Tetrahydrofuran	4.82
trans-1,3-Dichloropropene	27.6
BTEX	8.93
Total VOCs	680.92

SG9 - 11/25/2019	
1,2,4-Trimethylbenzene	1.11
1,3-Dichlorobenzene	2.36
4-Methyl-2-pentanone	1.5
Acetone	249
Benzene	2.45
Chloroform	1.09
Ethanol	61.6
Ethylbenzene	1.04
Heptane	3.06
Isopropylalcohol	10.6
Xylene (m&p)	3.69
Methyl Ethyl Ketone	49.8
Xylene (o)	1.35
Propylene	6.52
Tetrachloroethene	1
Toluene	6.29
Trichlorofluoromethane	5.24
BTEX	14.82
Total VOCs	407.7

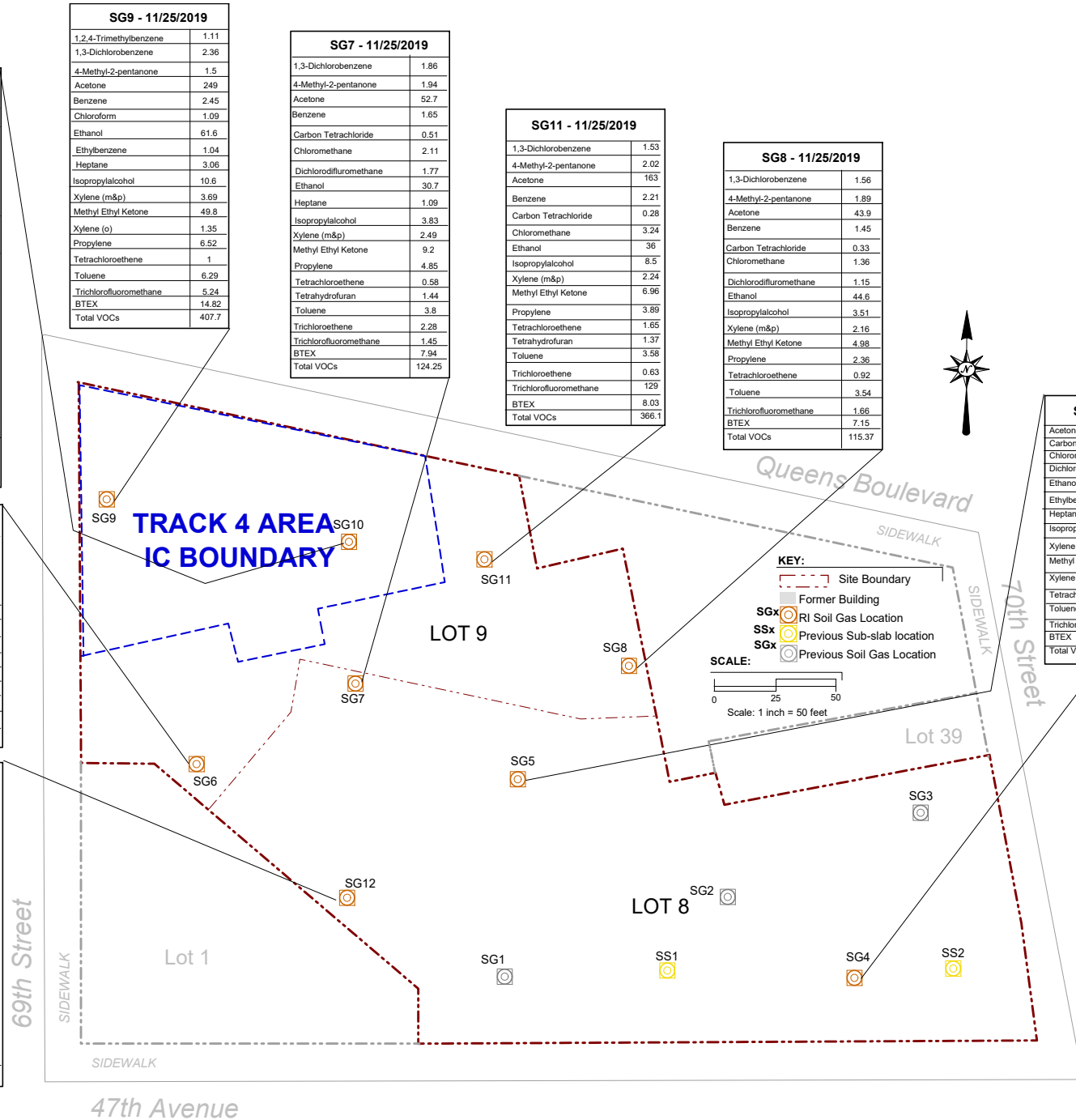
SG7 - 11/25/2019	
1,3-Dichlorobenzene	1.86
4-Methyl-2-pentanone	1.94
Acetone	52.7
Benzene	1.65
Carbon Tetrachloride	0.51
Chloromethane	2.11
Dichlorodifluoromethane	1.77
Ethanol	30.7
Heptane	1.09
Isopropylalcohol	3.83
Xylene (m&p)	2.49
Methyl Ethyl Ketone	9.2
Propylene	4.85
Tetrachloroethene	0.58
Tetrahydrofuran	1.44
Toluene	3.8
Trichloroethene	2.28
Trichlorofluoromethane	1.45
BTEX	7.94
Total VOCs	124.25

SG11 - 11/25/2019	
1,3-Dichlorobenzene	1.53
4-Methyl-2-pentanone	2.02
Acetone	163
Benzene	2.21
Carbon Tetrachloride	0.28
Chloromethane	3.24
Ethanol	36
Isopropylalcohol	8.5
Xylene (m&p)	2.24
Methyl Ethyl Ketone	6.96
Propylene	3.89
Tetrachloroethene	1.65
Tetrahydrofuran	1.37
Toluene	3.58
Trichloroethene	0.63
Trichlorofluoromethane	129
BTEX	8.03
Total VOCs	366.1

SG8 - 11/25/2019	
1,3-Dichlorobenzene	1.56
4-Methyl-2-pentanone	1.89
Acetone	43.9
Benzene	1.45
Carbon Tetrachloride	0.33
Chloromethane	1.36
Dichlorodifluoromethane	1.15
Ethanol	44.6
Isopropylalcohol	3.51
Xylene (m&p)	2.16
Methyl Ethyl Ketone	4.98
Propylene	2.36
Tetrachloroethene	0.92
Toluene	3.54
Trichlorofluoromethane	1.66
BTEX	7.15
Total VOCs	115.37

SG5 - 11/25/2019	
Acetone	229
Carbon Tetrachloride	0.45
Chloromethane	2.17
Dichlorodifluoromethane	1.39
Ethanol	27.7
Ethylbenzene	1.52
Heptane	1.01
Isopropylalcohol	8.08
Xylene (m&p)	5.34
Methyl Ethyl Ketone	10.2
Xylene (o)	1.6
Tetrachloroethene	5.99
Toluene	3.34
Trichlorofluoromethane	7.64
BTEX	11.8
Total VOCs	305.43

SG4 - 11/25/2019	
1,1,1-Trichloroethane	1.36
4-Methyl-2-pentanone	1.44
Acetone	13.6
Benzene	1.92
Carbon Disulfide	10.3
Carbon Tetrachloride	0.26
Chloromethane	6.6
Dichlorodifluoromethane	1.04
Ethanol	24.9
Heptane	25.1
Hexane	65.2
Isopropylalcohol	1.6
Xylene (m&p)	1.66
Methyl Ethyl Ketone	2.12
Tetrachloroethene	4.34
Tetrahydrofuran	10.3
Toluene	4.71
Trichloroethene	0.24
BTEX	8.29
Total VOCs	176.69



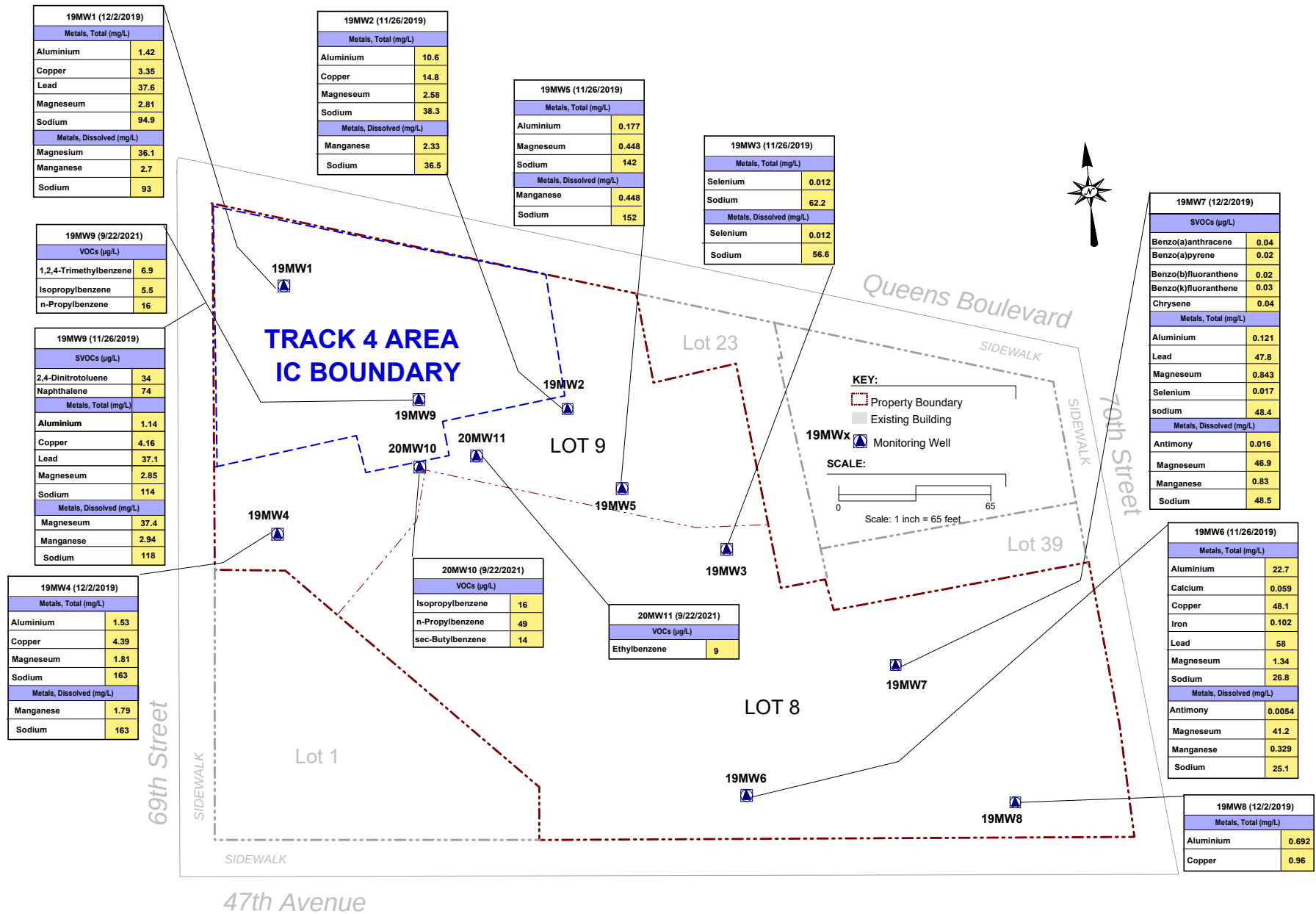
Phone 631.504.6000
Fax 631.924.2870

Figure No.
5

Site Name: **69-02 QUEENS BLVD. - C241235**

Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

Drawing Title: **RI SOIL VAPOR RESULTS**



AMC Engineering, PLLC
18-36 42nd Street
Astoria, NY 11105

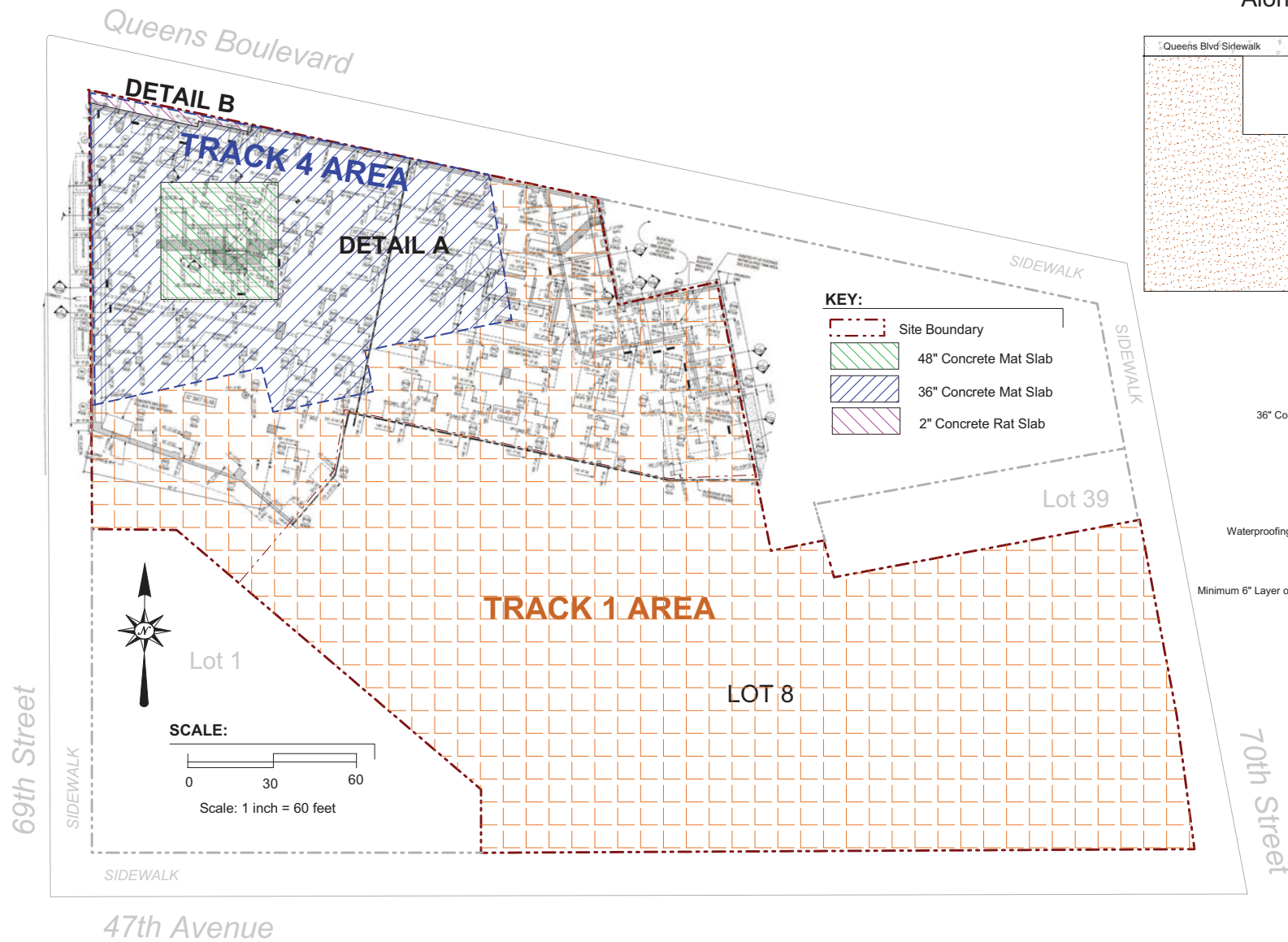
Figure No.
6

11/11/2021

Site Name: **69-02 QUEENS BOULEVARD**

Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

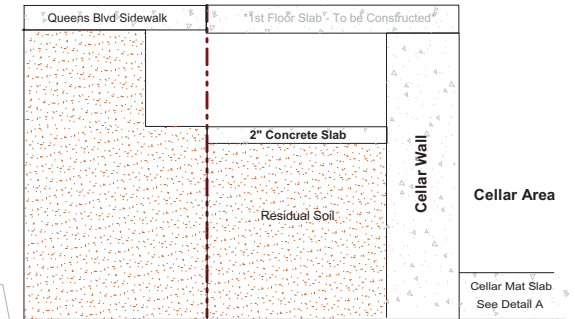
Drawing Title: **GROUNDWATER RESULTS ABOVE AWQS**



DETAIL B

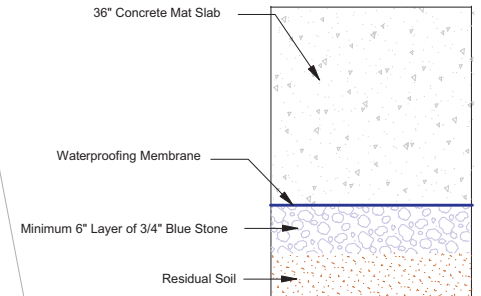
In Front of Building Along Queens Blvd

Not to Scale



DETAIL A

Not to Scale



AMC Engineering, PLLC
18-36 42nd Street
Astoria, NY 11105

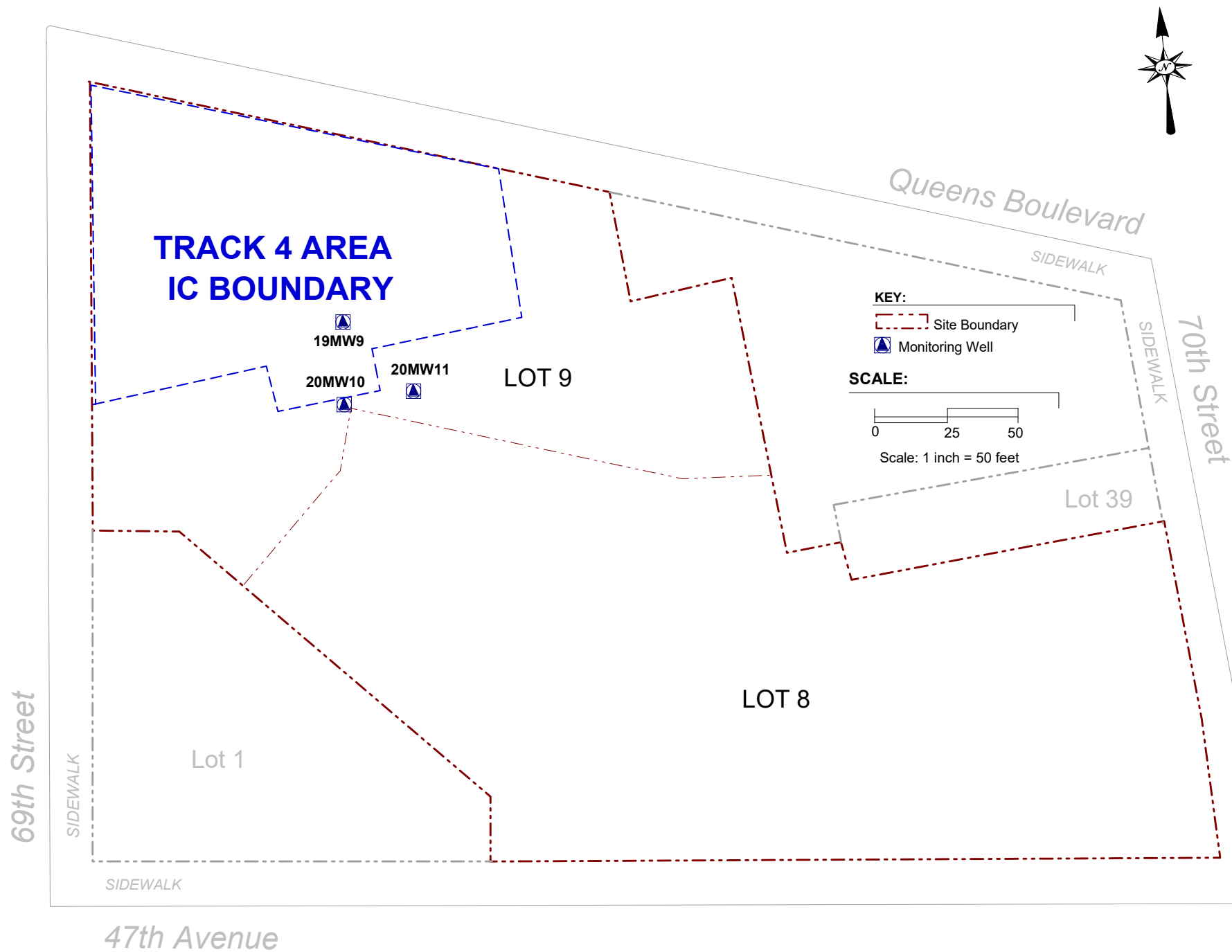
Figure No.
7

11/29/2021

Site Name: **69-02 QUEENS BOULEVARD - C241235**

Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

Drawing Title: **TRACK 4 AS-BUILT COVER SYSTEM DESIGN**



AMC Engineering, PLLC
 18-36 42nd Street
 Astoria, NY 11105

Figure No.
8

11/30/2021

Site Name: **69-02 QUEENS BOULEVARD - C241235**

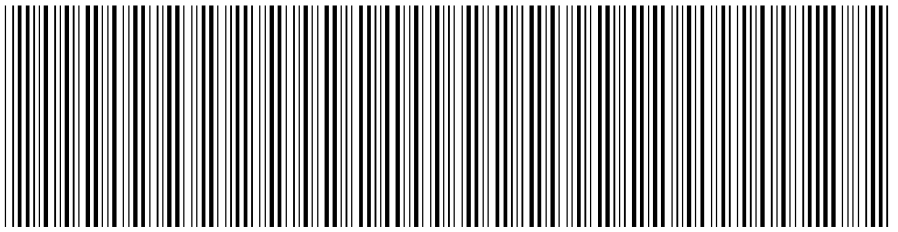
Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

Drawing Title: **GROUNDWATER MONITORING WELL LOCATION DIAGRAM**

APPENDIX A
Environmental Easement

**NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER**

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.



2021111100687001003E8273

RECORDING AND ENDORSEMENT COVER PAGE

PAGE 1 OF 10

Document ID: 2021111100687001

Document Date: 11-04-2021

Preparation Date: 11-18-2021

Document Type: EASEMENT

Document Page Count: 9

PRESENTER:

KENSINGTON VANGUARD NATIONAL LAND
SERVICES
39 W37TH STREET
TITLE NO. 591605-O-NY-CR-KV
NEW YORK, NY 10018
212-532-8686

RETURN TO:

PAUL M. HAUGE
ONE GATEWAY CENTER
NEWARK, NJ 07102

				PROPERTY DATA	
Borough	Block	Lot	Unit	Address	
QUEENS	2432	9	Entire Lot	N/A 70TH STREET	
Property Type: NON-RESIDENTIAL VACANT LAND					

CROSS REFERENCE DATA

CRFN _____ or DocumentID _____ or _____ Year _____ Reel _____ Page _____ or File Number _____

PARTIES

GRANTOR/SELLER:

QB DEVELOPMENT OWNER LLC
C/O: MADISON REALTY CAPITAL, 520 MADISON
AVE., SUITE 3501
NEW YORK, NY 10022

GRANTEE/BUYER:

DEPARTMENT OF ENVIRONMENTAL
CONSERVATION
625 BROADWAY
ALBANY, NY 12233

FEES AND TAXES

Mortgage :

Mortgage Amount: \$ 0.00

Taxable Mortgage Amount: \$ 0.00

Exemption:

TAXES: County (Basic): \$ 0.00

City (Additional): \$ 0.00

Spec (Additional): \$ 0.00

TASF: \$ 0.00

MTA: \$ 0.00

NYCTA: \$ 0.00

Additional MRT: \$ 0.00

TOTAL: \$ 0.00

Recording Fee: \$ 82.00

Affidavit Fee: \$ 0.00

Filing Fee:

\$ 100.00

NYC Real Property Transfer Tax:

\$ 0.00

NYS Real Estate Transfer Tax:

\$ 0.00

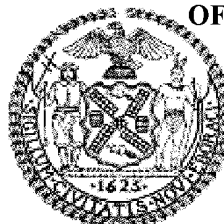
**RECORDED OR FILED IN THE OFFICE
OF THE CITY REGISTER OF THE**

CITY OF NEW YORK

Recorded/Filed 11-26-2021 13:48

City Register File No.(CRFN):

2021000466432



Annette McMill

City Register Official Signature

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this ^{as of} 4th day of Novemb-, 2021, between Owner, QB Development Owner LLC, having an office at c/o Madison Realty Capital, 520 Madison Avenue, Suite 3501, New York, New York 10022 (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 46-09 69th Street in the City of New York, County of Queens and State of New York, known and designated on the tax map of the New York City Department of Finance as a portion of tax map parcel number: Block 2432 Lot 9, being a portion of the property conveyed to Grantor by deed dated March 29, 2019 and recorded in the City Register of the City of New York as CRFN # 2019000117973. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.331 +/- acres, and is hereinafter more fully described in the Land Title Survey dated July 22, 2021 and last revised September 27, 2021 prepared by James C. Weed, L.L.S. of Control Point Associates, Inc., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C241235-09-19, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

**Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii),
Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial
as described in 6 NYCRR Part 375-1.8(g)(2)(iv)**

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an

interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: C241235
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to: Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

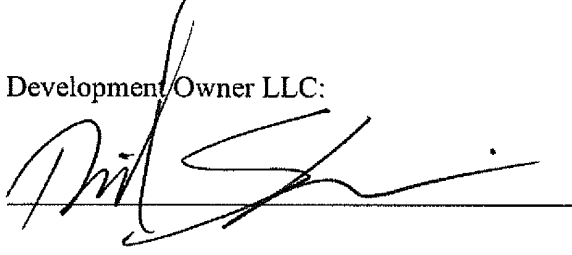
7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.
11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

QB Development Owner LLC:

By: 

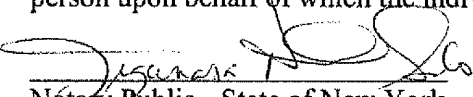
Print Name: David Speiser

Title: Authorized Signatory Date: 11.01.21

Grantor's Acknowledgment

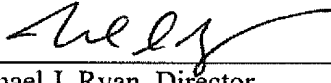
STATE OF NEW YORK)
) ss:
COUNTY OF NY)

On the 1st day of November, in the year 20 21, before me, the undersigned, personally appeared David Speiser, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.


Notary Public - State of New York

JIGANASA PARIKH-SILO
Notary Public, State of New York
No. 01PA6179443
Qualified in Richmond County
Certificate on file in New York County
Commission Expires 02.21.24

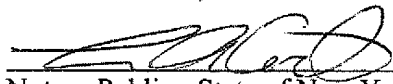
THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: 
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 4th day of November in the year 2021, before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.


Notary Public - State of New York

LISA A. COVERT
Notary Public, State of New York
No. 02CO6371712
Qualified in Rensselaer County
Commission Expires March 5, 2022

SCHEDULE "A" PROPERTY DESCRIPTION

METES & BOUNDS DESCRIPTION

TRACK 4 (EASEMENT AREA)

PART OF LOT 9

BLOCK 2432

BOROUGH & COUNTY OF QUEENS

CITY AND STATE OF NEW YORK

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTH LINE OF QUEENS BOULEVARD, A 200 FOOT WIDE PUBLIC RIGHT OF WAY, WITH THE EAST LINE OF 69TH STREET, AN 80 FOOT WIDE PUBLIC RIGHT OF WAY;

1. RUNNING THENCE EASTERLY ALONG THE SOUTH LINE OF SAID QUEENS BOULEVARD, EAST 156.02 FEET TO A POINT, THENCE;

ALONG THE DIVIDING LINE OF TRACK 1 THE FOLLOWING SIX (6) COURSES

2. SOUTHERLY ALONG THE DIVIDING LINE WITH TRACK 1, HAVING AN INTERIOR ANGLE OF 110 DEGREES – 57 MINUTES – 05 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 56.00 FEET TO A POINT, THENCE;
3. WESTERLY, HAVING AN INTERIOR ANGLE OF 92 DEGREES – 23 MINUTES - 13 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 58.22 FEET TO A POINT, THENCE;
4. SOUTHERLY, HAVING AN EXTERIOR ANGLE OF 90 DEGREES – 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 17.40 FEET TO A POINT, THENCE;
5. WESTERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES – 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 39.68 FEET TO A POINT, THENCE;
6. NORTHERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES – 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 17.40 FEET TO A POINT, THENCE;
7. WESTERLY, HAVING AN EXTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 66.10 FEET TO A POINT IN THE EASTERLY LINE OF 69TH STREET (AKA FISK AVENUE) (80 FOOT WIDE RIGHT OF WAY), THENCE;
8. NORTHERLY, ALONG SAID 69TH STREET HAVING AN INTERIOR ANGLE OF 78 DEGREES – 54 MINUTES - 44 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 120.00 FEET TO THE POINT AND PLACE OF BEGINNING.

CONTAINING 14,426 SQUARE FEET OR 0.331 ACRES

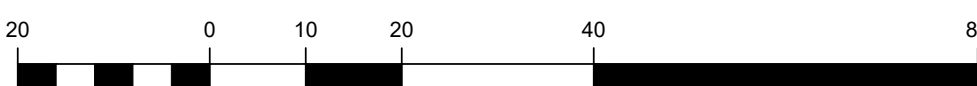
112°

QUEENS BOULEVARD

(A.K.A. THOMSON AVENUE
(200' WIDE))

THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THE EASEMENT ARE SET FORTH IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY AN PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV.

GRAPHIC SCALE



(IN FEET)

1 inch = 20.0'

LEGEND

DEPRESSED CURB	STREET LIGHT
HYDRANT	TRAFFIC SIGNAL POLE
SIAMSE CONNECTION	TRAFFIC SIGNAL
WATER VALVE	SIGN
GAS VALVE	BOLLARD
DRAINAGE/STORM MANHOLE	SECURITY CAMERA
SANITARY/SEWER MANHOLE	PARKING METER
COMBINED SEWER MANHOLE	MONITORING WELL
CON. ED. MANHOLE	MONITORING WELL ON CONC.
TELEPHONE MANHOLE	PAY PHONE
ELECTRIC MANHOLE	CATCH BASIN OR INLET
UNKNOWN MANHOLE	DECIDUOUS TREE
WATER MANHOLE	CHAIN LINK FENCE
GAS MANHOLE	DEPRESSED CURB
DETECTABLE WARNING PAD	EDGE OF CONC.
UTILITY POLE	EDGE OF PAVEMENT
UTILITY POLE/LIGHT POLE	METAL COVER
GUY WIRE	TYPICAL
MAIL BOX	OVERHEAD WIRES
EXISTING SPOT ELEVATION	APPROX. LOC. UNDERGROUND GAS LINE
EXIST. TOP OF CURB ELEVATION	APPROX. LOC. UNDERGROUND ELEC. LINE
EXIST. GUTTER ELEVATION	APPROX. LOC. UNDERGROUND FIBER OPTIC LINE
EXIST. TOP OF WALL ELEVATION	APPROX. LOC. UNDERGROUND TEL. LINE
EXIST. BOTTOM OF WALL ELEVATION	APPROX. LOC. UNDERGROUND WATER LINE
	RIM NAVD 88 (BOROUGH SEWER DATUM)
	INV. NAVD 88 (BOROUGH SEWER DATUM)

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

NOT LESS SEALED
JAMES C. WARRIN
NEW YORK PROFESSIONAL LAND SURVEYOR #50765
09-27-2021
DATE

SURVEYOR'S DESCRIPTION
BLOCK 2432
ENVIRONMENTAL EASEMENT DESCRIPTION
PART OF LOT 9
BLOCK 2432
BOROUGH & COUNTY OF QUEENS
CITY AND STATE OF NEW YORK

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTH LINE OF QUEENS BOULEVARD, A 200 FOOT WIDE PUBLIC RIGHT OF WAY, WITH THE EAST LINE OF 69TH STREET, AN 80 FOOT WIDE PUBLIC RIGHT OF WAY;

- RUNNING THENCE EASTERLY ALONG THE SOUTH LINE OF SAID QUEENS BOULEVARD, EAST 158.02 FEET TO A POINT, THENCE;
- SOUTHERLY ALONG THE DIVIDING LINE WITH TRACK 1, HAVING AN INTERIOR ANGLE OF 110 DEGREES - 05 MINUTES - 05 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 56.00 FEET TO A POINT, THENCE;
- WESTERLY, HAVING AN INTERIOR ANGLE OF 92 DEGREES - 23 MINUTES - 13 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 58.22 FEET TO A POINT, THENCE;
- SOUTHERLY, HAVING AN EXTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 17.40 FEET TO A POINT, THENCE;
- WESTERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 39.68 FEET TO A POINT, THENCE;
- NORTHERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 17.40 FEET TO A POINT, THENCE;
- WESTERLY, HAVING AN EXTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 86.10 FEET TO A POINT IN THE EASTERLY LINE OF 69TH STREET (AND THE AVENUE) (80 FOOT WIDE RIGHT OF WAY), THENCE;
- NORTHERLY, ALONG SAID 69TH STREET HAVING AN INTERIOR ANGLE OF 78 DEGREES - 54 MINUTES - 44 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 120.00 FEET TO THE POINT AND PLACE OF BEGINNING.

SURVEYOR'S DESCRIPTION
LOT 9, BLOCK 2432

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTH LINE OF WESTERLY INTERSECTION OF 70TH STREET AND 47TH AVENUE (60' WIDE PUBLIC RIGHT OF WAY);

- RUNNING THENCE WESTERLY ALONG THE NORTHERLY LINE OF 47TH AVENUE A DISTANCE OF 275.21 FEET TO A POINT, THENCE;
- NORTHERLY ALONG THE DIVIDING LINE WITH LOT 1, HAVING AN INTERIOR ANGLE OF 90 - DEGREES - 00 MINUTES - 00 SECONDS, A DISTANCE OF 24.37 FEET TO A POINT, THENCE;
- NORTHERLY ALONG THE DIVIDING LINE WITH LOT 1, HAVING AN EXTERIOR ANGLE OF 130 DEGREES - 51 MINUTES - 10 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 142.94 FEET TO A POINT, THENCE;
- ALONG THE DIVIDING LINE WITH PROPOSED LOT 8 AND PROPOSED LOT 9 THE FOLLOWING FOUR (4) COURSES:
- NORTHERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 55.33 FEET TO A POINT, THENCE;
- NORTHERLY, HAVING AN EXTERIOR ANGLE OF 151 DEGREES - 23 MINUTES - 52 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 24.68 FEET TO A POINT, THENCE;
- EASTERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 24.68 FEET TO A POINT, THENCE;
- EASTERLY, HAVING AN EXTERIOR ANGLE OF 167 DEGREES - 44 MINUTES - 58 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 35.23 FEET TO A POINT, THENCE;
- ALONG THE DIVIDING LINE WITH LOT 23 THE FOLLOWING TWO (2) COURSES:
- SOUTHERLY, HAVING AN INTERIOR ANGLE OF 101 DEGREES - 48 MINUTES - 48 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 122.26 FEET TO A POINT, THENCE;
- NORTHERLY, HAVING AN EXTERIOR ANGLE OF 90 DEGREES - 43 MINUTES - 11 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 21.18 FEET TO A POINT, THENCE;
- ALONG THE DIVIDING LINE WITH LOT 39 THE FOLLOWING TWO (2) COURSES:
- SOUTHERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 43 MINUTES - 10 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 15.03 FEET TO A POINT, THENCE;
- NORTHERLY, HAVING AN EXTERIOR ANGLE OF 90 DEGREES - 43 MINUTES - 10 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 120.10 FEET TO A POINT, THENCE;
- ALONG THE WESTERLY LINE OF 70TH STREET THE FOLLOWING TWO COURSES:
- SOUTHERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 55 MINUTES - 58 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 62.24 FEET TO A POINT, THENCE;
- SOUTHERLY, HAVING AN INTERIOR ANGLE OF 177 DEGREES - 54 MINUTES - 15 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 56.17 FEET TO A POINT AT THE NORTH WESTERLY INTERSECTION OF 70TH STREET AND 47TH AVENUE (60' WIDE PUBLIC RIGHT OF WAY), TO THE POINT AND PLACE OF BEGINNING.

SURVEYOR'S DESCRIPTION
LOT 9, BLOCK 2432

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTH LINE OF QUEENS BOULEVARD, A 200 FOOT WIDE PUBLIC RIGHT OF WAY, WITH THE EAST LINE OF 69TH STREET, AN 80 FOOT WIDE PUBLIC RIGHT OF WAY;

- RUNNING THENCE EASTERLY ALONG THE SOUTH LINE OF SAID QUEENS BOULEVARD, EAST 159.02 FEET TO A POINT, THENCE;
- SOUTHERLY ALONG THE DIVIDING LINE WITH LOT 23, HAVING AN INTERIOR ANGLE OF 113 DEGREES - 25 MINUTES - 50 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 41.17 FEET TO A POINT, THENCE, THENCE CONTINUING ALONG SAID DIVIDING LINE THE FOLLOWING THREE COURSES:
- EASTERLY, HAVING AN INTERIOR ANGLE OF 249 DEGREES - 14 MINUTES - 50 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 39.00 FEET TO A POINT, THENCE;
- SOUTHERLY ALONG SAID DIVIDING LINE, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 43 MINUTES - 10 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 17.24 FEET TO A POINT, THENCE;
- ALONG THE DIVIDING LINE WITH PROPOSED LOT 8 AND PROPOSED LOT 9 THE FOLLOWING FOUR (4) COURSES:
- WESTERLY, HAVING AN INTERIOR ANGLE OF 78 DEGREES - 45 MINUTES - 12 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 35.23 FEET TO A POINT, THENCE;
- WESTERLY, HAVING AN INTERIOR ANGLE OF 167 DEGREES - 44 MINUTES - 58 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 122.26 FEET TO A POINT, THENCE;
- SOUTHERLY, HAVING AN EXTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 24.68 FEET TO A POINT, THENCE;
- SOUTHERLY, HAVING AN INTERIOR ANGLE OF 151 DEGREES - 23 MINUTES - 52 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 55.33 FEET TO A POINT, THENCE;
- ALONG THE DIVIDING LINE WITH LOT 1 THE FOLLOWING TWO (2) COURSES:
- NORTHERLY, HAVING AN INTERIOR ANGLE OF 90 DEGREES - 00 MINUTES - 00 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 31.06 FEET TO A POINT, THENCE;
- SOUTHERLY, HAVING AN EXTERIOR ANGLE OF 139 DEGREES - 08 MINUTES - 51 SECONDS WITH THE PREVIOUS COURSE, A DISTANCE OF 122.26 FEET TO A POINT IN THE EASTERLY SIDE LINE OF 69TH STREET (80' WIDE PUBLIC RIGHT OF WAY), THENCE;
- NORTHERLY ALONG THE EASTERLY LINE OF 69TH STREET, HAVING AN INTERIOR ANGLE OF 165.05 FEET TO THE POINT AND PLACE OF BEGINNING.

3 ADDED TRACK METES AND BOUNDS J.J.W. J.C.W. 09-27-2021
2 REVISED TO SHOW NEW TRACK CONFIGURATION AND NEW WELLS B.B. J.J.W. J.C.W. 08-17-2021
1 REVISED TO SHOW NEW LOT CONFIGURATION J.J.W. J.C.W. 06-01-2021

No. DESCRIPTION OF REVISION FIELD CREW DRAWN APPROVED DATE

FIELD DATE	01-27-2020	BOUNDARY & LOCATION SURVEY	
FIELD BOOK NO.	-	69-02 QUEENS BLVD.	
FIELD BOOK PS.	-	WOODSIDE, NY 11377	
FIELD CREW	G.A.	LOT 8, 9, BLOCK 2432	
DRAWN	E.B.	BOROUGH & COUNTY OF QUEENS	
REVIEWED	J.J.W.	CITY & STATE OF NEW YORK	
APPROVED	J.C.W.	CONTROL POINT ASSOCIATES, INC.	
DATE	07-22-2021	35 TECHNICIAN DRIVE	
SCALE	1" = 20'	WARRIN, NJ 07059	
FILE NO.	01-150394-00	WWW.CONTROLPOINT.COM	
DWG NO.	1	CHARTERED PA 25170000	
OF	1	NEW YORK STATE LAND SURVEYOR	

APPENDIX B
List of Site Contacts

APPENDIX B – LIST OF SITE CONTACTS

LIST OF SITE CONTACTS

Name	Phone/Email Address
<u>Site Owner and Remedial Party</u> QB Development Owner LLC Zach Kadden	(646) 747-2235 zkadden@madisonrealtycapital.com
<u>Remedial Engineer</u> AMC Engineering Ariel Czemerinski	(718) 545-0474 ariel@amc-engineering.com
<u>NYSDEC DER Project Manager</u> Rafi Alam	(518) 402-8606 Rafi.Alam@dec.ny.gov
<u>NYSDEC DER Section Chief</u> Heidi Dudek	518-402-0193 <u>Heidi.dudek@dec.ny.gov</u>
<u>NYSDEC DER Site Control</u> Kelly Lewandowski	518-402-9581 <u>Kelly.Lewandowski@dec.ny.gov</u>
<u>NYSDEC DOH Project Manager</u> Arunesh Ghosh	518-402-7860 <u>arunesh.ghosh@health.ny.gov</u>
<u>Remedial Party Attorney</u> Gibbons P.C. David J. Freeman	212-613-2079 dfreeman@gibbonslaw.com
General Emergencies	911
NYC Police	911
NYC Fire Department	911
NYC Department of Health	212-676-2400
NYC Health + Hospitals/Elmhurst (Hospital)	718-334-4000
Poison Control	800-222-1222
National Response Center	800-424-8802
NYSDEC Spills Hotline	800-457-7362

APPENDIX C
Excavation Work Plan

APPENDIX C – EXCAVATION WORK PLAN (EWP)

E-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the NYSDEC. Table E-1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix B of the SMP.

Table E-1: Notifications*

Rafi Alam	518-402-8606, Rafi.Alam@dec.ny.gov
Heidi Dudek	518-402-0193, Heidi.dudek@dec.ny.gov
Kelly Lewandowski	518-402-9581, Kelly.Lewandowski@dec.ny.gov

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP provided in Appendix F of this SMP;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

E-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil.

Further discussion of off-site disposal of materials and on-site reuse is provided in Section E-5 of this Appendix.

E-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

E-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes are as follows (see **Figure 1C**):

- ENTERING SITE - from the Brooklyn Queens Expressway heading south; take the Broadway Avenue / 69th Street exit (Exit 40) continue south on 69th Street to the Site entrance on the left.
- EXITING SITE – Turn right onto 69th Street heading north to Queens Boulevard. Turn left on Queens Boulevard heading west to the Brooklyn Queens Expressway ramp on the right. Make a right on to the Brooklyn Queens Expressway ramp and bear left onto the Brooklyn Queens Expressway heading north.

All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

E-6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

E-7 MATERIALS REUSE ON-SITE

Chemical criteria for on-site reuse of material have been approved by NYSDEC and are listed in **Table 1C** (attached). The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines. This soil will undergo a testing program to confirm that it meets Restricted Residential and Protection of Groundwater SCOs prior to unregulated disposal or reuse on-site. Confirmation testing of clean soils will be in accordance with DER-10 as follows:

Contaminant	VOCs	SVOCs, Inorganics & PCBs/Pesticides	
Soil Quantity (cubic yards)	Discrete Samples	Composite	Discrete Samples/Composite
0-50	1	1	Each composite sample for analysis is created from 3-5 discrete samples from representative locations in the fill.
50-100	2	1	
100-200	3	1	
200-300	4	1	
300-400	4	2	
400-500	5	2	
500-800	6	2	
800-1000	7	2	
1000	Add an additional 2 VOC and 1 composite for each additional 1000 Cubic yards or consult with DER		

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

E-8 FLUIDS MANAGEMENT

All liquids to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a SPDES permit.

E-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the decision document. The cover system is comprised of:

- Concrete cellar slab - A 30 to 48 inch thick concrete cellar level mat slab.

If the type of cover system changes from that which exists prior to the excavation, this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A PE signed/stamped As-Built composite cover drawing depicting showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

E-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at <http://www.dec.ny.gov/regulations/67386.html>, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are Restricted Residential SCOs and Protection of Groundwater SCOs as listed in Table 1C. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

E-11 STORMWATER POLLUTION PREVENTION

Barriers such as silt fencing or hay bales will be installed around the entire perimeter of the remedial construction area to prevent the surface runoff of sediments off-site. All on-site drainage structures such as surface drains, catch basins etc. connected to the municipal sewer system will be similarly protected with barriers to prevent sediments from entering

the structure. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

E-12 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs) and emerging contaminants, unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

E-13 COMMUNITY AIR MONITORING PLAN

The CAMP provides measures for protection for the downwind community (i.e., off-site receptors including residences, businesses, and on-site workers not directly involved in the remedial work) from potential airborne contaminant releases resulting from remedial activities at construction sites.

The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that the remedial work did not spread contamination off-site through the air. The primary concerns for this site are nuisance odors and dust particulates.

A figure showing the location of air sampling stations based on generally prevailing wind conditions will be provided prior to implementing any activities under this SMP. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

E-14 ODOR CONTROL PLAN

This odor control plan is capable of controlling emissions of nuisance odors off-site and on-site. Odor control methods that may be used on a routine basis may include limiting the excavation size, backfilling the excavation, spraying water onto the excavation faces and equipment, covering soil stockpiles with 6-mil plastic sheeting, hauling waste materials in properly tarped containers; and/or applying vapor suppressant foam (BioSolve, Pinkwater or similar). If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils; If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

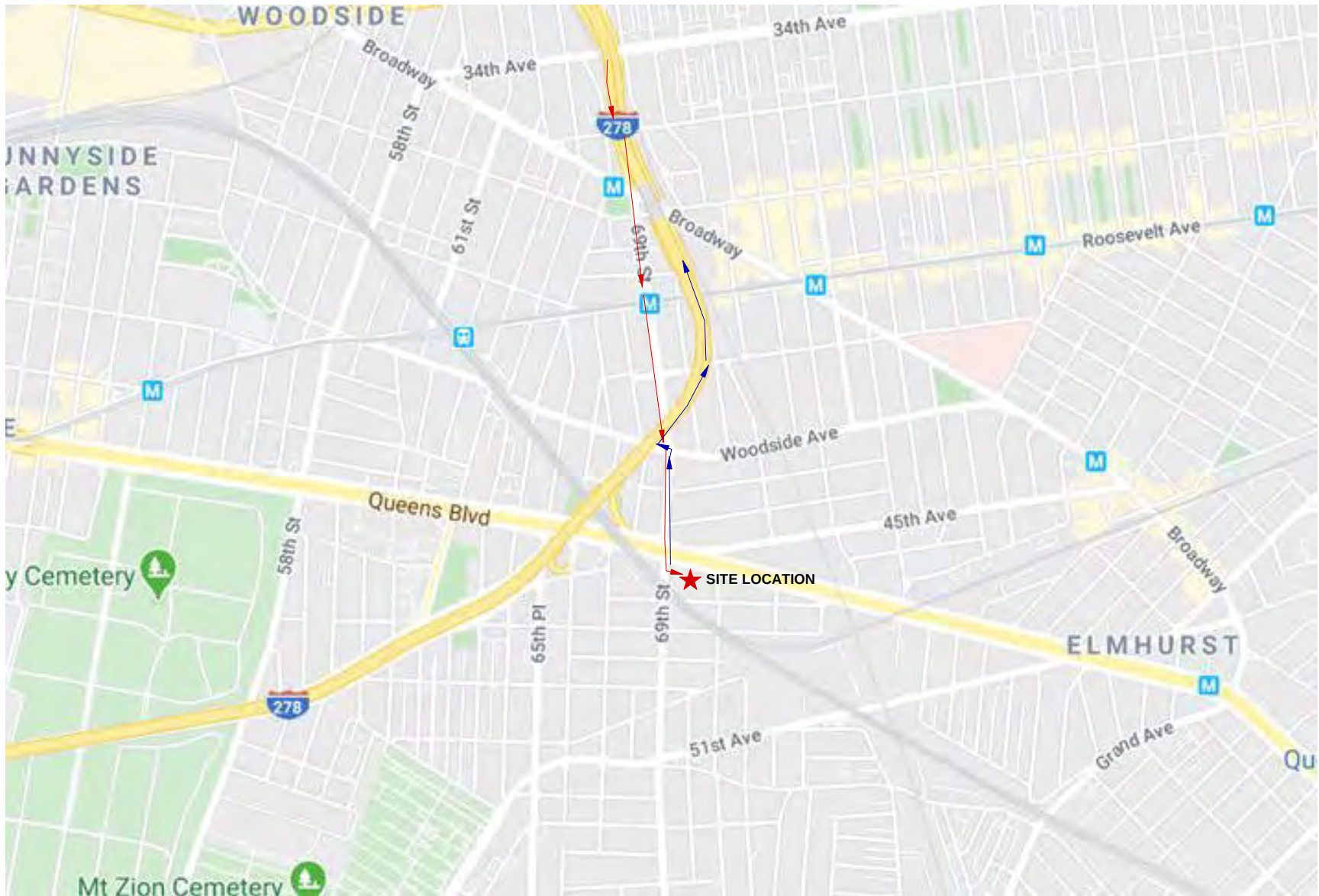
E-15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

E-16 OTHER NUISANCES

A plan for rodent control will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work. A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.



Key:

- Truck Route From Site 
- Truck Route To Site 



AMC Engineering, PLLC
18-36 42nd Street
Astoria, NY 11105

Figure No.
E1

7/29/2021

Site Name:	69-02 QUEENS BOULEVARD
Site Address:	69-02 QUEENS BOULEVARD, WOODSIDE, NY
Drawing Title:	TRUCK ROUTE

TABLE 1C
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
METALS							
Arsenic	7440-38 -2	16f	16f	16f	16f	13f	16f
Barium	7440-39 -3	350f	400	400	10,000 d	433	820
Beryllium	7440-41 -7	14	72	590	2,700	10	47
Cadmium	7440-43 -9	2.5f	4.3	9.3	60	4	7.5
Chromium, hexavalent h	18540-29-9	22	110	400	800	1e	19
Chromium, trivalenth	16065-83-1	36	180	1,500	6,800	41	NS
Copper	7440-50 -8	270	270	270	10,000 d	50	1,720
Total Cyanide h		27	27	27	10,000 d	NS	40
Lead	7439-92 -1	400	400	1,000	3,900	63f	450
Manganese	7439-96 -5	2,000f	2,000f	10,000 d	10,000 d	1600f	2,000f
Total Mercury		0.81j	0.81j	2.8j	5.7j	0.18f	0.73
Nickel	7440-02 -0	140	310	310	10,000 d	30	130
Selenium	7782-49 -2	36	180	1,500	6,800	3.9f	4f
Silver	7440-22 -4	36	180	1,500	6,800	2	8.3
Zinc	7440-66 -6	2200	10,000 d	10,000 d	10,000 d	109f	2,480
PESTICIDES / PCBs							
2,4,5-TP Acid (Silvex)	93-72-1	58	100a	500b	1,000c	NS	3.8
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 e	17
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 e	136
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 e	14
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14	0.19
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04g	0.02
beta-BHC	319-85-7	0.072	0.36	3	14	0.6	0.09
Chlordane (alpha)	5103-71 -9	0.91	4.2	24	47	1.3	2.9
delta-BHC	319-86-8	100a	100a	500b	1,000c	0.04g	0.25
Dibenzofuran	132-64-9	14	59	350	1,000c	NS	210
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I	959-98-8	4.8i	24i	200i	920i	NS	102
Endosulfan II	33213-65-9	4.8i	24i	200i	920i	NS	102
Endosulfan sulfate	1031-07 -8	4.8i	24i	200i	920i	NS	1,000c
Endrin	72-20-8	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36 -3	1	1	1	25	1	3.2
SEMI-VOLATILES							
Acenaphthene	83-32-9	100a	100a	500b	1,000c	20	98
Acenaphthylene	208-96-8	100a	100a	500b	1,000c	NS	107
Anthracene	120-12-7	100a	100a	500b	1,000c	NS	1,000c
Benz(a)anthracene	56-55-3	1f	1f	5.6	11	NS	1f
Benzo(a)pyrene	50-32-8	1f	1f	1f	1.1	2.6	22
Benzo(b) fluoranthene	205-99-2	1f	1f	5.6	11	NS	1.7
Benzo(g,h,i) perylene	191-24-2	100a	100a	500b	1,000c	NS	1,000c
Benzo(k) fluoranthene	207-08-9	1	3.9	56	110	NS	1.7
Chrysene	218-01-9	1f	3.9	56	110	NS	1f
Dibenz(a,h) anthracene	53-70-3	0.33e	0.33e	0.56	1.1	NS	1,000c
Fluoranthene	206-44-0	100a	100a	500b	1,000c	NS	1,000c
Fluorene	86-73-7	100a	100a	500b	1,000c	30	386
Indeno(1,2,3-cd) pyrene	193-39-5	0.5f	0.5f	5.6	11	NS	8.2
m-Cresol	108-39-4	100a	100a	500b	1,000c	NS	0.33e
Naphthalene	91-20-3	100a	100a	500b	1,000c	NS	12
o-Cresol	95-48-7	100a	100a	500b	1,000c	NS	0.33e
p-Cresol	106-44-5	34	100a	500b	1,000c	NS	0.33e
Pentachlorophenol	87-86-5	2.4	6.7	6.7	55	0.8e	0.8e
Phenanthrene	85-01-8	100a	100a	500b	1,000c	NS	1,000c
Phenol	108-95-2	100a	100a	500b	1,000c	30	0.33e
Pyrene	129-00-0	100a	100a	500b	1,000c	NS	1,000c

TABLE 1C
Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources	Protection of Ground-water
		Residential	Restricted-Residential	Commercial	Industrial		
VOLATILES							
1,1,1-Trichloroethane	71-55-6	100a	100a	500b	1,000c	NS	0.68
1,1-Dichloroethane	75-34-3	19	26	240	480	NS	0.27
1,1-Dichloroethene	75-35-4	100a	100a	500b	1,000c	NS	0.33
1,2-Dichlorobenzene	95-50-1	100a	100a	500b	1,000c	NS	1.1
1,2-Dichloroethane	107-06-2	2.3	3.1	30	60	10	0.02f
cis-1,2-Dichloroethene	156-59-2	59	100a	500b	1,000c	NS	0.25
trans-1,2-Dichloroethene	156-60-5	100a	100a	500b	1,000c	NS	0.19
1,3-Dichlorobenzene	541-73-1	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	9.8	13	130	250	0.1e	0.1e
Acetone	67-64-1	100a	100b	500b	1,000c	2.2	0.05
Benzene	71-43-2	2.9	4.8	44	89	70	0.06
Butylbenzene	104-51-8	100a	100a	500b	1,000c	NS	12
Carbon tetrachloride	56-23-5	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	100a	100a	500b	1,000c	40	1.1
Chloroform	67-66-3	10	49	350	700	12	0.37
Ethylbenzene	100-41-4	30	41	390	780	NS	1
Hexachlorobenzene	118-74-1	0.33e	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	100a	100a	500b	1,000c	100a	0.12
Methyl tert-butyl ether	1634-04 -4	62	100a	500b	1,000c	NS	0.93
Methylene chloride	75-09-2	51	100a	500b	1,000c	12	0.05
n-Propylbenzene	103-65-1	100a	100a	500b	1,000c	NS	3.9
sec-Butylbenzene	135-98-8	100a	100a	500b	1,000c	NS	11
tert-Butylbenzene	98-06-6	100a	100a	500b	1,000c	NS	5.9
Tetrachloroethene	127-18-4	5.5	19	150	300	2	1.3
Toluene	108-88-3	100a	100a	500b	1,000c	36	0.7
Trichloroethene	79-01-6	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene	95-63-6	47	52	190	380	NS	3.6
1,3,5-Trimethylbenzene	108-67-8	47	52	190	380	NS	8.4
Vinyl chloride	75-01-4	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20 -7	100a	100a	500b	1,000c	0.26	1.6

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

a The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

b The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

c The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

d The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

e For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

APPENDIX D
Site Management Forms

SITE INSPECTION CHECKLIST

Site Inspection Checklist - Cover System - Track 4 Portion of Site
69-02 Queens Boulevard
C241235

Date: _____ Time: _____

Inspector Name/Organization: _____

Visual Inspection of Cellar Slab in Track 4 portion of Site

Inspect concrete/pavement for cracks, perforations and patching

Describe General Condition of Concrete

Describe any Cracks or New Penetrations

Describe any Patching

Visual Inspection of Slab Along Queens Blvd in Track 4 portion of Site

Inspect concrete/pavement for cracks, perforations and patching

Describe General Condition of Concrete

Describe any Cracks or New Penetrations

Describe any Patching

Repairs Needed and / or Maintenance at this time?

Signature: _____ Date: _____

MONITORING WELL INSPECTION/ PURGE / SAMPLE LOGS

Well I.D.: _____

Date:

PID Value from Well: _____

Equipment:

Well Depth (from TOC): _____

Field Personnel:

Static Water Level (from TOC): _____

Height of Water in Well: _____

Gallons of Water per Well Volume: _____

Flow Rate:

[illegible]

APPENDIX E
Community Air Monitoring Plan

COMMUNITY AIR MONITORING PLAN

69-02 QUEENS BOULEVARD
WOODSIDE, NY

NOVEMBER 2021

69-02 QUEENS BOULEVARD

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APPENDICES

Appendix A Action Limit Report

1.0 INTRODUCTION

This Community Air Monitoring Plan (CAMP) has been prepared for use during activities that disturb the engineered composite cover installed across the Site and during all excavation and other soil disturbing activities. The CAMP provides measures for protection for the on-site workers and building occupants and downwind community (i.e., off-site receptors including residences, businesses, and on-site workers not directly involved in the investigation activities) from potential airborne contaminant releases resulting from investigative activities at the site.

Compliance with this CAMP is required during all activities associated with drilling and sampling activities that have the potential to generate airborne particulate matter and volatile organic compounds (VOCs). These activities include drilling and soil and groundwater sampling. This CAMP has been prepared to ensure that investigation activities do not adversely affect passersby, residents, or workers in the area immediately surrounding the Site and to preclude or minimize airborne migration of investigation-related contaminants to off-site areas.

1.1 Regulatory Requirements

This CAMP was established in accordance with the following requirements:

- New York State Department of Health's (NYSDOH) Generic Community Air Monitoring Plan as presented in DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC May 3, 2010). This guidance specifies that a community air-monitoring program shall be implemented to protect the surrounding community and to confirm that the work does not spread contamination off-site through the air;
- New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Memorandum (TAGM) #4031 - Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites: This guidance provides a basis for developing and implementing a fugitive dust suppression and particulate monitoring program as an element of a hazardous waste site's health and safety program.

2.0 AIR MONITORING

Volatile organic compounds (VOCs) are the constituents of concern at the Site. The appropriate method to monitor air for these constituents during remediation activities is through real-time VOC and air particulate (dust) monitoring.

2.1 Meteorological Data

At a minimum, wind direction will be evaluated at the start of each workday, noon of each workday, and the end of each workday. These readings will be utilized to position the monitoring equipment in appropriate upwind and downwind locations.

2.2 Community Air Monitoring Requirements

To establish ambient air background concentrations, air will be monitored at several locations around the site perimeter before activities begin. These points will be monitored periodically in series during the site work. When the drilling area is within 20 feet of potentially exposed populations or occupied structures, the perimeter monitoring points will be located to represent the nearest potentially exposed individuals at the downwind location.

Fugitive respirable dust will be monitored using a MiniRam Model PDM-3 aerosol monitor (or equivalent). Air will be monitored for VOCs with a portable Ionscience 3000 photoionization detector (PID), or equivalent. All air monitoring data will be documented in a site log book by the designated site safety officer. The site safety officer or delegate must ensure that air monitoring instruments are calibrated and maintained in accordance with manufacturer's specifications. All instruments will be zeroed daily and checked for accuracy. A daily log will be kept. If additional monitoring is required, the protocols will be developed and appended to this plan

3.0 VOC MONITORING, RESPONSE LEVELS, AND ACTIONS

Volatile organic compounds (VOCs) will be monitored within the work area and at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present.

The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown. All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

All readings will be recorded and made available for NYSDEC and NYSDOH personnel to review. If an exceedance of the Action Limits occurs, an Action Limit Report, as shown in Appendix A, will be completed.

3.1 Potential Corrective Measures and VOC Suppression Techniques

If the 15-minute integrated VOC level at the downwind location persists at a concentration that exceeds the upwind level by more than 5 ppm but less than 25 ppm during remediation activities, then vapor suppression techniques will be employed. The following techniques, or others, may be employed to mitigate the generation and migration of fugitive organic vapors:

- Collection of purge water in covered containers;
- storage of excess sample and drill cuttings in drums or covering with plastic

4.0 PARTICULATE MONITORING

Air monitoring for particulates (i.e., dust) will be performed continuously during drilling activities using both air monitoring equipment and visual observation at upwind and downwind locations. Monitoring equipment capable of measuring particulate matter smaller than 10 microns (PM₁₀) and capable of integrating (averaging) over periods of 15 minutes or less will be set up at upwind (i.e., background) and downwind locations, at heights approximately four to five feet above land surface (i.e., the breathing zone). Monitoring equipment will be MIE Data Ram monitors, or equivalent. The audible alarm on the particulate monitoring device will be set at 90 micrograms per cubic meter (µg/m³). This setting will allow proactive evaluation of worksite conditions prior to reaching the action level of 100 µg/m³ above background. The monitors will be calibrated at least once per day prior to work activities and recalibrated as needed thereafter. In addition, fugitive dust migration will be visually assessed during all intrusive work activities.

The following summarizes particulate action levels and the appropriate responses:

- If the downwind PM-10 particulate level is 100 µg/m³ greater than background (upwind perimeter) for the 15-minute period, or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 µg/m³ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 µg/m³ above the upwind level, work must be stopped and an evaluation of activities initiated. Work can resume provided that dust suppression measures (as described in Section 2.3.1 below) and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for NYSDEC and NYSDOH personnel to review. If an exceedance of the Action Limits occurs, an Action Limit Report as shown in **Appendix A** will be completed.

4.1 Potential Particulate Suppression Techniques

If the integrated particulate level at the downwind location exceeds the upwind level by more than 100 µg/m³ at any time during drilling activities, then dust suppression techniques will be employed. The following techniques, or others, may be employed to mitigate the generation and migration of fugitive dusts:

- Placement of drill cuttings in drums or covering stockpiles with plastic;
- Misting of the drilling area with a fine water spray from a hand-held spray bottle

Work may continue with dust suppression techniques provided that downwind PM₁₀ levels are not more than 150 µg/m³ greater than the upwind levels.

There may also be situations where the dust is generated by drilling activities and migrates to downwind locations, but is not detected by the monitoring equipment at or above the action level. Therefore, if dust is observed leaving the working area, dust suppression techniques such as those listed above will be employed.

If dust suppression techniques do not lower particulates to below $150 \mu\text{g}/\text{m}^3$, or visible dust persists, work will be suspended until appropriate corrective measures are identified and implemented to remedy the situation.

All air monitoring readings will be recorded in the field logbook and will be available for the NYSDEC and NYSDOH personnel to review.

5.0 DATA QUALITY ASSURANCE

5.1 Calibration

Instrument calibration shall be documented on instrument calibration and maintenance sheets or in the designated field logbook. All instruments shall be calibrated as required by the manufacturer. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument response.

5.2 Operations

All instruments shall be operated in accordance with the manufacturer's specifications. Manufacturers' literature, including an operations manual for each piece of monitoring equipment will be maintained on-site by the SSO for reference.

5.3 Data Review

The SSO will interpret all monitoring data based the established criteria and his/her professional judgment. The SSO shall review the data with the PM to evaluate the potential for worker exposure, upgrades/downgrades in level of protection, comparison to direct reading instrumentation and changes in the integrated monitoring strategy.

Monitoring and sampling data, along with all sample documentation will be periodically reviewed by the PM.

6.0 RECORDS AND REPORTING

All air readings must be recorded on daily air monitoring log sheets and made available for review by personnel from NYSDEC and NYSDOH.

APPENDIX A
ACTION LIMIT REPORT

**CAMP
ACTION LIMIT REPORT**

Project Location: _____

Date: _____

Time: _____

Name: _____

Contaminant: _____ PM-10: _____ VOC: _____

Wind Speed: _____

Wind Direction: _____

Temperature: _____

Barometric Pressure: _____

DOWNWIND DATA

Monitor ID #: _____ Location: _____ Level Reported: _____

Monitor ID#: _____ Location: _____ Level Reported: _____

UPWIND DATA

Monitor ID #: _____ Location: _____ Level Reported: _____

Monitor ID#: _____ Location: _____ Level Reported: _____

BACKGROUND CORRECTED LEVELS

Monitor ID #: Location: _____ Level Reported: Level Reported: _____

ACTIONS TAKEN

APPENDIX F
Health and Safety Plan

**69-02 QUEENS BOULEVARD
46-09 69th Street and 46-10 70th Street
Woodside, NY
Block 2432 Lots 8, 9, 21, 41, 44 and 50
BCP SITE NO. 241235**

**CONSTRUCTION
HEALTH AND SAFETY PLAN**

OCTOBER 2021

Prepared for:
QB Development Owner LLC
825 3rd Avenue, 37th Floor
New York, NY 10022

Prepared by:



ENVIRONMENTAL BUSINESS CONSULTANTS

1808 Middle Country Road
Ridge, NY 11961

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STATEMENT OF COMMITMENT

This Construction Health and Safety Plan (CHASP) has been prepared to ensure that workers are not exposed to risks from hazardous materials during the Remedial Actions at the Site.

This CHASP, which applies to persons present at the site actually or potentially exposed to hazardous materials, describes emergency response procedures for actual and potential chemical hazards. This CHASP is also intended to inform and guide personnel entering the work area or exclusion zone. Persons are to acknowledge that they understand the potential hazards and the contents of this Health and Safety policy by signing off on receipt of their individual copy of the document. Contractors and suppliers are retained as independent contractors and are responsible for ensuring the health and safety of their own employees.

1.0 INTRODUCTION AND SITE ENTRY REQUIREMENTS

This document describes the health and safety guidelines developed by Environmental Business Consultants (EBC) for the planned Remedial Action at the Site to protect on-site personnel, visitors, and the public from physical harm and exposure to hazardous materials or wastes during remedial activities. In accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120 Hazardous Waste Operations and Emergency Response Final rule, this CHASP, including the attachments, addresses safety and health hazards related to excavation, loading and other soil disturbance activities and is based on the best information available. The CHASP may be revised by EBC at the request of the owner and/or a regulatory agency upon receipt of new information regarding site conditions. Changes will be documented by written amendments signed by EBC's project manager, site safety officer and/or the EBC health and safety consultant.

Work performed under the remedial action will not involve confined space entry since the excavations will be large and sloped back in accordance with NYCDOB shoring requirements and will not have a limited or restricted means for entry or exit.

1.1 Training Requirements

Personnel entering the exclusion zone or decontamination zone are required to be certified in health and safety practices for hazardous waste site operations as specified in the Federal OSHA Regulations CFR 1910.120e (revised 3/6/90).

Paragraph (e - 3) of the above referenced regulations requires that all on-site management personnel directly responsible for or who supervise employees engaged in hazardous waste operations, must initially receive 8 hours of supervisor training related to managing hazardous waste work.

Paragraph (e - 8) of the above referenced regulations requires that workers and supervisors receive 8 hours of refresher training annually on the items specified in Paragraph (e-1) and/or (e-3).

Additionally, all on-site personnel must receive adequate site-specific training in the form of an on-site Health and Safety briefing prior to participating in field work with emphasis on the following:

- Protection of the adjacent community from hazardous vapors and / or dust which may be released during intrusive activities.
- Identification of chemicals known or suspected to be present on-site and the health effects and hazards of those substances.
- The need for vigilance in personnel protection, and the importance of attention to proper use, fit and care of personnel protective equipment.
- Decontamination procedures.
- Site control including work zones, access and security.
- Hazards and protection against heat or cold.
- The proper observance of daily health and safety practices, such as entry and exit of work zones and site. Proper hygiene during lunch, break, etc.

- Emergency procedures to be followed in case of fire, explosion and sudden release of hazardous gases.

Health and Safety meetings will be conducted on a daily basis and will cover protective clothing and other equipment to be used that day, potential and chemical and physical hazards, emergency procedures, and conditions and activities from the previous day.

1.2 Medical Monitoring Requirements

Field personnel and visitors entering the exclusion zone or decontamination zone must have completed appropriate medical monitoring required under OSHA 29 CFR 1910.120(f) if respirators or other breathing related PPE is needed. Medical monitoring enables a physician to monitor each employee's health, physical condition, and his fitness to wear respiratory protective equipment and carry out on-site tasks.

1.3 Site Safety Plan Acceptance, Acknowledgment and Amendments

The project superintendent and the site safety officer are responsible for informing personnel (EBC employees and/or owner or owners representatives) entering the work area of the contents of this plan and ensuring that each person signs the safety plan acknowledging the on-site hazards and procedures required to minimize exposure to adverse effects of these hazards. A copy of the Acknowledgement Form is included in **Appendix A**.

Site conditions may warrant an amendment to the CHASP. Amendments to the CHASP are acknowledged by completing forms included in **Appendix B**.

1.4 Key Personnel - Roles and Responsibilities

Personnel responsible for implementing this Health and Safety Plan are:

Name	Title	Address	Contact Numbers
Kevin Brussee	Project Manager	1808 Middle Country Rd Ridge, NY 11961	(631) 504-6000
Ms. Chawinie Reilly	Health & Safety Manager	1808 Middle Country Rd Ridge, NY 11961	(631) 504-6000
Mr. Thomas Gallo	Site Safety Officer	1808 Middle Country Rd Ridge, NY 11961	(631) 504-6000

The project manager is responsible for overall project administration and, with guidance from the site safety officer, for supervising the implementation of this CHASP. The site safety officer will conduct daily (tail gate or tool box) safety meetings at the project site and oversee daily safety issues. Each subcontractor and supplier (defined as an OSHA employer) is also responsible for the health and safety of its employees. If there is any dispute about health and safety or project activities, on-site personnel will attempt to resolve the issue. If the issue cannot be resolved at the site, then the project manager will be consulted.

The site safety officer is also responsible for coordinating health and safety activities related to hazardous material exposure on-site. The site safety officer is responsible for the following:

1. Educating personnel about information in this CHASP and other safety requirements to be observed during site operations, including, but not limited to, decontamination procedures, designation of work zones and levels of protection, air monitoring, fit testing, and emergency procedures dealing with fire and first aid.
2. Coordinating site safety decisions with the project manager.
3. Designating exclusion, decontamination and support zones on a daily basis.
4. Monitoring the condition and status of known on-site hazards and maintaining and implementing the air quality monitoring program specified in this CHASP.
5. Maintaining the work zone entry/exit log and site entry/exit log.
6. Maintaining records of safety problems, corrective measures and documentation of chemical exposures or physical injuries (the site safety officer will document these conditions in a bound notebook and maintain a copy of the notebook on-site).

The person who observes safety concerns and potential hazards that have not been addressed in the daily safety meetings should immediately report their observations/concerns to the site safety officer or appropriate key personnel.

2.0 SITE BACKGROUND AND SCOPE OF WORK

The Site is located in the Woodside section of Queens County and is comprised of two irregular-shaped tax parcels identified as Block 2432, Lots 8 and 9. The Site is located between Queens Boulevard to the north, 70th Street to the east, 47th Avenue to the south and 69th Street to the west. The Site is approximately 1.65 acres (71,862 sf).

The Phase I Report prepared in 2018 noted that Lot 9 has been the subject of several previous environmental investigations and remedial activity. A total of approximately 5,270.8 tons of petroleum-impacted soil was previously removed and on-going quarterly groundwater monitoring was previously performed. EBC identified several historic recognized environmental condition (HRECs), environmental concerns (ASTM Non-Scope issues)/Business Environmental Risks (BERs). The HRECs, environmental concerns/BERs and EBC's recommendations are summarized as follows:

- The presence of one closed LTANKS case (Spill No. 0312172) and five closed NYSPILLS cases (Spill Nos. 0312172, 0404768, 9811087, 0901267, 0404766) on Lot 9 represent a HREC for which no further action is required.
- Historical fill (noted at varying depths) with elevated SVOCs and metals was noted in the Phase II investigation conducted by EBC in February and April 2018.
- Lot 21, Tax Block 2432, 69-20 Queens Boulevard, and Lot 9, Tax Block 2432, 69-02 Queens Boulevard are listed on the E-Designation database as having a HazMat, Noise and Air restriction (E-163), which was determined during the Maspeth/Woodside Rezoning completed by the City in June 2006 (CEQR 060294ZMQ).
- A visual inspection of painted surfaces conducted during the site inspection indicated the interior paints were generally in fair condition. The building exterior walls were finished with painted aluminum siding and painted and unpainted brick. The lead contents of the paints are unknown; however, due to the age of the subject property buildings, the presence of LBP is possible.
- Observed suspect asbestos-containing materials included vinyl tiles, ceiling tiles and pipe insulation within the subject property buildings on Lots 41 and 44. In addition, due to the age of the subject property buildings, it is likely that inaccessible building materials may contain asbestos.

2.1 Previous Investigations

Summary of Previous Investigations

March 2019 – Phase II Subsurface Investigation Report (EBC)

Field work for the Subsurface Investigation was performed February and April 2018. Field work consisted of the installation of fourteen soil borings (B1 through B14) and five monitoring wells. The depth to groundwater ranged from 15 to 16 feet below surface.

Thirteen soil samples were analyzed for SVOCs, pesticides, metals and TCLP lead. Five groundwater samples were collected from the monitoring wells and submitted for VOC analysis.

The Report concluded the following:

The shallow soil sample retained from B3 exhibited an odor and staining. Several VOCs were detected in groundwater samples collected at the Site. No petroleum-related VOCs were identified.

The soil samples collected from the historic fill layer contained elevated concentrations of SVOCs and metals above the intended residential use of the Site. In addition some of the soil failed the TCLP analysis for lead which will result in a hazardous classification for at least some of the fill. All soil removed from the Site for excavation will require proper classification, handling and disposal under an approved Remedial Action Work Plan, Construction Health and Safety Plan and Community Air Monitoring Plan. Soil of this quality is not suitable for disposal at most facilities in NYC and on Long Island and will require transport to facilities in NJ, PA or DE.

April 2019 – Soil Gas / Subslab Vapor Sampling (EBC)

On March 29, 2019, two sub-slab soil gas implants (SS1 and SS2) and three soil vapor implants (SG1, SG2, SG3) were installed and five soil vapor samples were collected for chemical analysis. The samples were collected to evaluate the potential for vapor intrusion into the planned Tower II building at the site, which is the location of a planned school. The NYC School Construction Authority requested the evaluation.

Soil vapor samples collected during the Soil Vapor Intrusion Assessment showed low concentrations of petroleum-related VOCs (BTEX) and chlorinated VOCs (CVOCs). The total concentration of BTEX ranged from 22.13 $\mu\text{g}/\text{m}^3$ to 45.90 $\mu\text{g}/\text{m}^3$. Total CVOCs ranged from 1.57 $\mu\text{g}/\text{m}^3$ to 3.81 $\mu\text{g}/\text{m}^3$. Tetrachloroethene (PCE), trichloroethene (TCE), carbon tetrachloride and vinyl chloride were not reported at elevated concentrations in any of the samples.

Petroleum related VOCs were generally reported at low concentrations within the sub-slab soil gas and soil vapor samples. Elevated levels of heptane and hexane were reported in the SG2 sample. Heptane and hexane represent lighter end petroleum VOCs typically associated with gasoline; however, elevated levels of other gasoline components were not reported in the sample.

Low levels of CVOCs including carbon tetrachloride, PCE and vinyl chloride were detected in four of the five samples, but at concentrations well below applicable regulatory criteria.

Summary of the Remedial Investigation

A Remedial Investigation was completed at the Site from November 2019 through December 2019, and documented in a Remedial Investigation Report dated July 2019 (revised December 10, 2019). The goals of the Remedial Investigation were to define the nature and extent of contamination in soil, groundwater and any other impacted media; to identify the source(s) of the contamination; to assess the impact of the contamination on public health and/or the environment; and to provide information to support the development of a Remedial Work Plan to address the contamination.

Activities completed under the RI:

- The installation of 18 soil borings (19B1 - 19B18) across the Site and six soil borings (2PB1-2PB3, and 3PB1-3PB3) around two lead hotspots, to collect 62 soil samples for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, PCBs, 21 PFAS compounds by EPA method 537 modified, and metals;
- The installation of nine groundwater monitoring wells (19MW1 through 19MW9) and the collection of nine groundwater samples for laboratory analysis of VOCs, SVOCs,

pesticides, PCBs, 21 PFAS compounds by EPA method 537 modified, and total and dissolved metals;

- The collection of nine soil gas samples for laboratory analysis of VOCs from nine soil gas sampling locations.

The results of sampling performed during this RI identified historic fill material across the Site to a depth 7 feet below grade. Depending on location, the historic fill material contains one or more metals including copper, mercury, lead and zinc, pesticides and polycyclic aromatic hydrocarbons (PAHs) above Unrestricted Use and / or Restricted Residential SCOs. Lead classified as hazardous was identified in two hotspot areas to a depth of 12 feet below grade.

Petroleum related VOCs were detected above NYSDEC Ambient Water Quality Standards (AWQS) at a single location 19MW9 located in the west central area of the former gas station. Total petroleum VOCs in groundwater at this location was reported as 1,241 µg/L.

SVOCs above AWQS were also limited to 19MW9 and included naphthalene, which was reported as both a VOC and an SVOC, at 82 µg/L and 2,4-dinitrotoluene at 34 µg/L.

Petroleum-related VOCs were generally low in soil vapor samples and were consistent with typical levels reported in commercial areas of NYC.

Chlorinated VOCs in soil vapor included tetrachloroethene (PCE), which was detected in all of the samples at concentrations ranging from 0.58 µg/m³ to 37.1 µg/m³, and trichloroethene (TCE), which was detected in five samples at concentrations ranging from 0.24 µg/m³ to 27.6 µg/m³. The highest detections of both compounds were reported in subslab samples located near the southwest property line.

2.2 Description of Remedial Action

Site activities included within the Remedial Action that are included within the scope of this CHASP include the following:

Implementation of the remedy for the Track 4 portion of the Site included the following:

1. Excavation of non-hazardous historic fill material to a depth of 4 to 5 ft with additional excavation to a depth of approximately 12 to 15ft below grade for construction of the cellar slab;
2. Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work;
3. Appropriate off-Site disposal of all material removed from the Track 4 portion of the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
4. Import of ¾" RCA for use as backfill below the concrete building slab in compliance with: (1) chemical limitations and other specifications listed in the RAWP, and (2) all Federal, State, and local rules and regulations for handling and transport of material;
5. ISCO treatment of groundwater in the vicinity of MW9;
6. Installation of a vapor barrier below the building slab and behind cellar walls to grade;
7. A post-construction soil vapor intrusion evaluation will be performed within the new building and will consist of the collection and laboratory analysis indoor air samples. The

post-construction soil vapor intrusion evaluation will include a provision for implementing actions recommended to address exposures related to soil vapor intrusion within new building;

8. Construction of a site cover system consisting of:
 - a. Concrete cellar slab - A 30 to 48 inch thick concrete cellar level mat slab underlain with a waterproofing membrane and a layer of $\frac{3}{4}$ " RCA.
9. Development and implementation of a Site Management Plan for long term management of remaining contamination at the Site which includes plans for: (1) Institutional Controls, (2) inspections and (3) reporting; and
10. An Environmental Easement recorded against the Site will ensure implementation of the SMP.

3.0 HAZARD ASSESSMENT

This section identifies the hazards associated with the proposed scope of work, general physical hazards that can be expected at most sites; and presents a summary of documented or potential chemical hazards at the site. Every effort must be made to reduce or eliminate these hazards. Those that cannot be eliminated must be guarded against using engineering controls and/or personal protective equipment.

3.1 Physical Hazards

3.1.1 Tripping Hazards

An area of risk associated with on-site activities are presented by uneven ground, concrete, curbstones or equipment which may be present at the site thereby creating a potential tripping hazard. During intrusive work, care should be taken to mark or remove any obstacles within the exclusion zone.

3.1.2 Climbing Hazards

During site activities, workers may have to work on excavating equipment by climbing. The excavating contractor will conform with any applicable NIOSH and OSHA requirements or climbing activities.

3.1.3 Cuts and Lacerations

Field activities that involve excavating activities usually involve contact with various types of machinery. A first aid kit approved by the American Red Cross will be available during all intrusive activities.

3.1.4 Lifting Hazards

Improper lifting by workers is one of the leading causes of industrial injuries. Field workers in the excavation program may be required to lift heavy objects. Therefore, all members of the field crew should be trained in the proper methods of lifting heavy objects. All workers should be cautioned against lifting objects too heavy for one person.

3.1.5 Utility Hazards

Before conducting any excavation, the excavation contractor will be responsible for locating and verifying all existing utilities at each excavation.

3.1.6 Traffic Hazards

All traffic, vehicular and pedestrian, shall be maintained and protected at all times consistent with local, state and federal agency regulations regarding such traffic and in accordance with NYCDOT guidelines. The excavation contractor shall carry on his operations without undue interference or delays to traffic. The excavation contractor shall furnish all labor, materials, guards, barricades, signs, lights, and anything else necessary to maintain traffic and to protect his work and the public, during operations.

3.2 Work in Extreme Temperatures

Work under extremely hot or cold weather conditions requires special protocols to minimize the chance that employees will be affected by heat or cold stress.

3.2.1 Heat Stress

The combination of high ambient temperature, high humidity, physical exertion, and personal protective apparel, which limits the dissipation of body heat and moisture, can cause heat stress.

The following prevention, recognition and treatment strategies will be implemented to protect personnel from heat stress. Personnel will be trained to recognize the symptoms of heat stress and to apply the appropriate treatment.

1. Prevention

- a. Provide plenty of fluids. Available in the support zone will be a 50% solution of fruit punch and water or plain water.
- b. Work in Pairs. Individuals should avoid undertaking any activity alone.
- c. Provide cooling devices. A spray hose and a source of water will be provided to reduce body temperature, cool protective clothing and/or act as a quick-drench shower in case of an exposure incident.
- d. Adjustment of the work schedule. As is practical, the most labor-intensive tasks should be carried out during the coolest part of the day.

2. Recognition and Treatment

a. Heat Rash (or prickly heat):

Cause: Continuous exposure to hot and humid air, aggravated by chafing clothing.

Symptoms: Eruption of red pimples around sweat ducts accompanied by intense itching and tingling.

Treatment: Remove source of irritation and cool skin with water or wet cloths.

b. Heat Cramps (or heat prostration)

Cause: Profuse perspiration accompanied by inadequate replenishment of body water and electrolytes.

Symptoms: Muscular weakness, staggering gait, nausea, dizziness, shallow breathing, pale and clammy skin, approximately normal body temperature.

Treatment: Perform the following while making arrangement for transport to a medical facility. Remove the worker to a contamination reduction zone. Remove protective clothing. Lie worker down on back in a cool place and raise feet 6 to 12 inches. Keep warm, but loosen all clothing. If conscious, provide sips of salt-water solution, using one teaspoon of salt in 12 ounces of water. Transport to a medical facility.

c. Heat Stroke

Cause: Same as heat exhaustion. This is also an extremely serious condition.

Symptoms: Dry hot skin, dry mouth, dizziness, nausea, headache, rapid pulse.

Treatment: Cool worker immediately by immersing or spraying with cool water or sponge bare skin after removing protective clothing. Transport to hospital.

3.2.2 Cold Exposure

Exposure to cold weather, wet conditions and extreme wind-chill factors may result in excessive loss of body heat (hypothermia) and /or frostbite. To guard against cold exposure and to prevent cold injuries, appropriate warm clothing should be worn, warm shelter must be readily available, rest periods should be adjusted as needed, and the physical conditions of on-site field personnel should be closely monitored. Personnel and supervisors working on-site will be made aware of the signs and symptoms of frost bite and hypothermia such as:

- Shivering;
- reduced blood pressure;
- reduced coordination;
- drowsiness;
- impaired judgment;
- fatigue;
- pupils dilated but reactive to light; and,
- numbing of the toes and fingers.

3.3 Chemical Hazards

“Urban fill” materials, present throughout the New York City area typically contain elevated levels of semi-volatile organic compounds and metals. These “contaminants” are not related to a chemical release occurring on the site, but are inherent in the reworked fill material in the area which contains ash and bits of tar and asphalt. Considering the previous sampling results and the past and present use of the site, the following compounds are considered for the site as potential contaminants: volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyl’s (PCBs), and heavy metals such as arsenic, barium, cadmium, chromium, lead, mercury and zinc.

Based on the findings of the Remedial Investigation and the inherent properties of urban fill, the following compounds are considered for the site as potential contaminants: semi-volatile organic compounds (SVOCs) and heavy metals.

Volatile organic compounds reported to be present in soil and / or fill materials include the following:

1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Benzene	Ethylbenzene
m&p-xylenes	Naphthalene	n-propylbenzene	o-xylene
Toluene			

No SVOCs, metals, pesticides or PCBs were reported to be present in soil below the building slab in the Track 4 portion of the Site.

The primary routes of exposure to these contaminants are inhalation, ingestion and absorption.

Appendix C includes information sheets for suspected chemicals that may be encountered at the site.

3.3.1 Respirable Dust

Dust may be generated from vehicular traffic and/or excavation activities. If visible observation detects elevated levels of dust, a program of wetting will be employed by the site safety officer. If elevated dust levels persist, the site safety office will employ dust monitoring using a particulate monitor (Miniram or equivalent). If monitoring detects concentrations greater than 150 $\mu\text{g}/\text{m}^3$ over daily background, the site safety officer will take corrective actions as defined herein, including the use of water for dust suppression and if this is not effective, requiring workers to wear APRs with efficiency particulate air (HEPA) cartridges.

Absorption pathways for dust and direct contact with soils or groundwater will be mitigated with the implementation of latex gloves, hand washing and decontamination exercises when necessary.

3.3.2 Dust Control and Monitoring During Earthwork

Dust generated during excavation activities or other earthwork may contain contaminants identified in soils at the site. Dust will be controlled by wetting the working surface with water. Calcium chloride may be used if the problem cannot be controlled with water. Air monitoring and dust control techniques are specified in a site specific Dust Control Plan (if applicable). Site workers will not be required to wear APR's unless dust concentrations are consistently over 150 $\mu\text{g}/\text{m}^3$ over site-specific background in the breathing zone as measured by a dust monitor unless the site safety officer directs workers to wear APRs. The site safety officer will use visible dust as an indicator to implement the dust control plan.

3.3.3 Organic Vapors

Elevated levels of pet VOCs were detected in soil and groundwater samples collected during previous investigations at the site. Therefore, excavation activities may cause the release of organic vapors to the atmosphere. The site safety officer will periodically monitor organic vapors with a Photoionization Detector (PID) during excavation activities to determine whether organic vapor concentrations exceed action levels shown in Section 5 and/or the Community Air Monitoring Plan.

4.0 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) shall be selected in accordance with the site air monitoring program, OSHA 29 CFR 1910.120(c), (g), and 1910.132. Protective equipment shall be NIOSH approved and respiratory protection shall conform to OSHA 29 CFR Part 1910.133 and 1910.134 specifications; head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133; and foot protection shall conform to 1910.136. The only true difference among the levels of protection from D thru B is the addition of the type of respiratory protection. **It is anticipated that work will be performed in Level D PPE.**

4.1 Level D

Level D PPE shall be donned when the atmosphere contains no known hazards and work functions preclude splashes, immersion, or the potential for inhalation of, or contact with, hazardous concentrations of harmful chemicals. Level D PPE consists of:

- standard work uniform, coveralls, or tyvek, as needed;
- steel toe and steel shank work boots;
- hard hat;
- gloves, as needed;
- safety glasses;
- hearing protection;
- equipment replacements are available as needed.

4.2 Level C

Level C PPE shall be donned when the concentrations of measured total organic vapors in the breathing zone exceed background concentrations (using a portable OVA, or equivalent), but are less than 5 ppm. The specifications on the APR filters used must be appropriate for contaminants identified or expected to be encountered. Level C PPE shall be donned when the identified contaminants have adequate warning properties and criteria for using APR have been met. Level C PPE consists of:

- chemical resistant or coated tyvek coveralls;
- steel-toe and steel-shank workboots;
- chemical resistant overboots or disposable boot covers;
- disposable inner gloves (surgical gloves);
- disposable outer gloves;
- full face APR fitted with organic vapor/dust and mist filters or filters appropriate for the identified or expected contaminants;
- hard hat;
- splash shield, as needed; and,
- ankles/wrists taped with duct tape.

The site safety officer will verify if Level C is appropriate by checking organic vapor concentrations using compound and/or class-specific detector tubes.

- chemical resistant coveralls;
- steel-toe and steel-shank workboots;
- chemical resistant overboots or disposable boot covers;
- disposable inner gloves;
- disposable outer gloves;
- hard hat; and,
- ankles/wrists taped.

The exact PPE ensemble is decided on a site-by-site basis by the Site Safety Officer with the intent to provide the most protective and efficient worker PPE.

4.3 Activity-Specific Levels of Personal Protection

The required level of PPE is activity-specific and is based on air monitoring results (Section 4.0) and properties of identified or expected contaminants. **It is expected that site work will be performed in Level D.** If air monitoring results indicate the necessity to upgrade the level of protection engineering controls (i.e. Facing equipment away from the wind and placing site personnel upwind of drilling locations, active venting, etc.) will be implemented before requiring the use of respiratory protection.

5.0 AIR MONITORING AND ACTION LEVELS

29 CFR 1910.120(h) specifies that monitoring shall be performed where there may be a question of employee exposure to hazardous concentrations of hazardous substances in order to assure proper selection of engineering controls, work practices and personal protective equipment so that employees are not exposed to levels which exceed permissible exposure limits, or published exposure levels if there are no permissible exposure limits, for hazardous substances.

5.1 Air Monitoring Requirements

If excavation work is performed, air will be monitored for VOCs with a portable ION Science 3000EX photoionization detector, or the equivalent. If necessary, Lower Explosive Limit (LEL) and oxygen will be monitored with a Combustible Gas Indicator (CGI). If appropriate, fugitive dust will be monitored using a MiniRam Model PDM-3 aerosol monitor. Air will be monitored when any of the following conditions apply:

- initial site entry;
- during any work where a potential IDLH condition or flammable atmosphere could develop;
- excavation work begins on another portion of the site;
- contaminants, other than those previously identified, have been discovered;
- each time a different task or activity is initiated;
- during trenching and/or excavation work.

The designated site safety officer will record air monitoring data and ensure that air monitoring instruments are calibrated and maintained in accordance with manufacturer's specifications. Instruments will be zeroed daily and checked for accuracy. Monitoring results will be recorded in a field notebook and will be transferred to instrument reading logs.

5.2 Work Stoppage Responses

The following responses will be initiated whenever one or more of the action levels necessitating a work stoppage are exceeded:

- 1 The SSO will be consulted immediately
- 2 All personnel (except as necessary for continued monitoring and contaminant migration, if applicable) will be cleared from the work area (eg from the exclusion zone).
- 3 Monitoring will be continued until intrusive work resumes.

5.3 Action Levels During Excavation Activities

Instrument readings will be taken in the breathing zone above the excavation pit unless otherwise noted. Each action level is independent of all other action levels in determining responses.

Organic Vapors (PID)	LEL %	Responses
0-1 ppm above background	0%	• Continue excavating • Level D protection • Continue monitoring every 10 minutes
1-5 ppm Above Background, Sustained Reading	1-10%	• Continue excavating • Go to Level C protection or employ engineering controls • Continue monitoring every 10 minutes
5-25 ppm Above Background, Sustained Reading	10-20%	• Discontinue excavating, unless PID is only action level exceeded. • Level C protection or employ engineering controls • Continue monitoring for organic vapors 200 ft downwind • Continuous monitoring for LEL at excavation pit
>25 ppm Above Background, Sustained Reading	>20%	• Discontinue excavating • Withdraw from area, shut off all engine ignition sources. • Allow pit to vent • Continuous monitoring for organic vapors 200 ft downwind.

Notes: Air monitoring will occur in the breathing zone 30 inches above the excavation pit. Readings may also be taken in the excavation pit but will not be used for action levels.

If action levels for any one of the monitoring parameters are exceeded, the appropriate responses listed in the right hand column should be taken. If instrument readings do not return to acceptable levels after the excavation pit has been vented for a period of greater than one-half hour, a decision will then be made whether or not to seal the pit with suppressant foam.

If, during excavation activities, downwind monitoring PID readings are greater than 5 ppm above background for more than one-half hour, excavation will stop until sustained levels are less than 5 ppm (see Community Air Monitoring Plan).

6.0 SITE CONTROL

6.1 Work Zones

The primary purpose of site controls is to establish the perimeter of a hazardous area, to reduce the migration of contaminants into clean areas, and to prevent access or exposure to hazardous materials by unauthorized persons. When operations are to take place involving hazardous materials, the site safety officer will establish an exclusion zone, a decontamination zone, and a support zone. These zones "float" (move around the site) depending on the tasks being performed on any given day. The site safety officer will outline these locations before work begins and when zones change. The site safety officer records this information in the site log book. **It is expected that the entire fenced in area of the Site will be the exclusion zone, with the decontamination zone the Site entrance.** The support zone will be the office trailer.

Tasks requiring OSHA 40-hour Hazardous Waste Operations and Emergency Response Operations training are carried out in the exclusion zone. The exclusion zone is defined by the site safety officer but will typically be a 50-foot area around work activities. Gross decontamination (as determined by the site Health and Safety Officer) is conducted in the exclusion zone; all other decontamination is performed in the decontamination zone or trailer.

Protective equipment is removed in the decontamination zone. Disposable protective equipment is stored in receptacles staged in the decontamination zone, and non-disposable equipment is decontaminated. All personnel and equipment exit the exclusion zone through the decontamination zone. If a decontamination trailer is provided the first aid equipment, an eye wash unit, and drinking water are kept in the decontamination trailer.

The support zone is used for vehicle parking, daily safety meetings, and supply storage. Eating, drinking, and smoking are permitted only in the support zone. When a decontamination trailer is not provided, the eye wash unit, first aid equipment, and drinking water are kept at a central location designated by the site safety officer.

6.2 General Site Work

An excavation contractor with appropriate experience, personnel and training (40 hr OSHA Hazardous Waste Operations and Emergency Response Operations - HAZWOPER) is required to perform the removal of the lead hazardous soil. After this material is removed the contractor will remove historic fill and uncontaminated soil. The excavation contractor's on-site personnel engaged in historic fill and native soil removal will have a minimum of 24 hour HAZWOPER training.

7.0 CONTINGENCY PLAN/EMERGENCY RESPONSE PLAN

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

Emergency telephone numbers and a map to the hospital will be posted in the command post. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

7.1 Emergency Equipment On-site

Private telephones:	Site personnel.
Two-way radios:	Site personnel where necessary.
Emergency Alarms:	On-site vehicle horns*.
First aid kits:	On-site, in vehicles or office.
Fire extinguisher:	On-site, in office or on equipment.

* Horns: Air horns will be supplied to personnel at the discretion of the project superintendent or site safety officer.

7.2 Emergency Telephone Numbers

General Emergencies	911
New York City Police	911
NYC Health + Hospitals/Elmhurst	1-718-334-4000
Brooklyn Hospital Center	1-718-250-8000
NYSDEC Spills Division	1-800-457-7362
NYSDEC Division of Env. Remediation	1-518-402-9625
NYCDEP	1-718-699-9811
NYC Department of Health	1-212-788-4711
NYC Fire Department	911
National Response Center	1-800-424-8802
Poison Control	1-212-340-4494
Site Safety Officer	1-631-504-6000
Alternate Site Safety Officer	1-631-504-6000

7.3 Personnel Responsibilities During an Emergency

The project manager is primarily responsible for responding to and correcting any emergency situations. However, in the absence of the project manager, the site safety officer shall act as the project manager's on-site designee and perform the following tasks:

- Take appropriate measures to protect personnel including: withdrawal from the exclusion zone, evacuate and secure the site, or upgrade/downgrade the level of protective clothing and respiratory protection;
- Ensure that appropriate federal, state, and local agencies are informed and emergency

response plans are coordinated. In the event of fire or explosion, the local fire department should be summoned immediately. If toxic materials are released to the air, the local authorities should be informed in order to assess the need for evacuation;

- Ensure appropriate decontamination, treatment, or testing for exposed or injured personnel;
- Determine the cause of incidents and make recommendations to prevent recurrence; and,
- Ensure that all required reports have been prepared.

The following key personnel are planned for this project:

• Project Manager	Kevin Brussee (631) 504-6000
• Construction Superintendent	Abraham Guttman (929) 441-0051
• Site Safety Officer	Tom Gallo (631) 504-6000

7.4 Medical Emergencies

A person who becomes ill or injured in the exclusion zone will be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination will be completed and first aid administered prior to transport. First aid will be administered while waiting for an ambulance or paramedics. A Field Accident Report (**Appendix D**) must be filled out for any injury.

A person transporting an injured/exposed person to a clinic or hospital for treatment will take the directions to the hospital (**Appendix D**), and information on the chemical(s) to which they may have been exposed (**Appendix C**).

7.5 Fire or Explosion

In the event of a fire or explosion, the local fire department will be summoned immediately. The site safety officer or his designated alternate will advise the fire commander of the location, nature and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- use fire fighting equipment available on site; or,
- remove or isolate flammable or other hazardous materials that may contribute to the fire.

7.6 Evacuation Routes

Evacuation routes established by work area locations for each site will be reviewed prior to commencing site operations. As the work areas change, the evacuation routes will be altered accordingly, and the new route will be reviewed.

Under extreme emergency conditions, evacuation is to be immediate without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site, personnel will follow these

instructions:

- Keep upwind of smoke, vapors, or spill location.
- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, personnel should remove contaminated clothing once they are in a safe location and leave it near the exclusion zone or in a safe place.
- The site safety officer will conduct a head count to ensure that all personnel have been evacuated safely. The head count will be correlated to the site and/or exclusion zone entry/exit log.
- If emergency site evacuation is necessary, all personnel are to escape the emergency situation and decontaminate to the maximum extent practical.

7.7 Spill Control Procedures

Spills associated with site activities may be attributed to project equipment and include gasoline, diesel and hydraulic oil. In the event of a leak or a release, site personnel will inform their supervisor immediately, locate the source of spillage and stop the flow if it can be done safely. A spill containment kit including absorbent pads, booms and/or granulated speedy dry absorbent material will be available to site personnel to facilitate the immediate recovery of the spilled material. Daily inspections of site equipment components including hydraulic lines, fuel tanks, etc. will be performed by their respective operators as a preventative measure for equipment leaks and to ensure equipment soundness. In the event of a spill, site personnel will immediately notify the NYSDEC (1-800-457-7362), and a spill number will be generated.

7.8 Vapor Release Plan

If work zone organic vapor (excluding methane) exceeds 5 ppm, then a downwind reading will be made either 200 feet from the work zone or at the property line, whichever is closer. If readings at this location exceed 5 ppm over background, the work will be stopped.

If 5 ppm of VOCs are recorded over background on a PID at the property line, then an off-site reading will be taken within 20 feet of the nearest residential or commercial property, whichever is closer. If efforts to mitigate the emission source are unsuccessful for 30 minutes, then the designated site safety officer will:

- contact the local police;
- continue to monitor air every 30 minutes, 20 feet from the closest off-site property. If two successive readings are below 5 ppm (non-methane), off-site air monitoring will be halted.
- All property line and off site air monitoring locations and results associated with vapor releases will be recorded in the site safety log book.

APPENDIX A
SITE SAFETY ACKNOWLEDGEMENT FORM



DAILY BRIEFING SIGN-IN SHEET

Date: _____ Person Conducting Briefing: _____

Project Name and Location: _____

1. AWARENESS (topics discussed, special safety concerns, recent incidents, etc...):

2. OTHER ISSUES (HASP changes, attendee comments, etc...):

3. ATTENDEES (Print Name):

1.	11.
2.	12.
3.	13.
4.	14.
5.	15.
6.	16.
7.	17.
8.	18.
9.	19.
10.	20.

APPENDIX B

SITE SAFETY PLAN AMENDMENTS

SITE SAFETY PLAN AMENDMENT FORM

Site Safety Plan Amendment #: _____

Site Name: _____

Reason for Amendment: _____

Alternative Procedures: _____

Required Changes in PPE: _____

Project Superintendent (signature)

Date

Health and Safety Consultant (signature)

Date

Site Safety Officer (signature)

Date

APPENDIX C

CHEMICAL HAZARDS

CHEMICAL HAZARDS

The attached International Chemical Safety Cards are provided for contaminants of concern that have been identified in soils and/or groundwater at the site.

International Chemical Safety Cards

1,2,4-TRIMETHYLBENZENE

ICSC: 1433



Pseudocumene
 C_9H_{12}
 Molecular mass: 120,2

ICSC # 1433
 CAS # 95-63-6
 RTECS # [DC3325000](#)
 UN # 1993
 EC # 601-043-00-3
 March 06, 2002 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Alcohol-resistant foam, dry powder, carbon dioxide.
EXPLOSION	Above 44°C explosive vapour/air mixtures may be formed.	Above 44°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT GENERATION OF MISTS!	
• INHALATION	Confusion. Cough. Dizziness. Drowsiness. Headache. Sore throat. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• SKIN	Redness. Dry skin.	Protective gloves.	Rinse skin with plenty of water or shower.
• EYES	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• INGESTION	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: filter respirator for organic gases and vapours.	Fireproof. Separated from strong oxidants. Well closed. Keep in a well-ventilated room.	Xn symbol N symbol R: 10-20-36/37/38-51/53 S: 2-26-61 UN Hazard Class: 3 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 1433

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

1,2,4-TRIMETHYLBENZENE

ICSC: 1433

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR. PHYSICAL DANGERS: CHEMICAL DANGERS: The substance decomposes on burning producing toxic and irritating fumes Reacts violently with strong oxidants causing fire and explosion hazard. OCCUPATIONAL EXPOSURE LIMITS: TLV: (as mixed isomers) 25 ppm as TWA (ACGIH 2004). MAK: (as mixed isomers) 20 ppm 100 mg/m³ Peak limitation category: II(2) Pregnancy risk group: C (DFG 2004). OSHA PEL†: none NIOSH REL: TWA 25 ppm (125 mg/m³) NIOSH IDLH: N.D. See: IDLH INDEX	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation. INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster. EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes the skin and the respiratory tract If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. Lungs may be affected by repeated or prolonged exposure , resulting in chronic bronchitis The substance may have effects on the central nervous system blood See Notes.

PHYSICAL PROPERTIES	Boiling point: 169°C Melting point: -44°C Relative density (water = 1): 0.88 Solubility in water: very poor Relative vapour density (air = 1): 4.1	Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 44°C c.c. Auto-ignition temperature: 500°C Explosive limits, vol% in air: 0.9-6.4 Octanol/water partition coefficient as log Pow: 3.8

ENVIRONMENTAL DATA	The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in fish.	

NOTES

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is suggested. See also ICSC 1155 1,3,5-Trimethylbenzene (Mesitylene), ICSC 1362 1,2,3-Trimethylbenzene (Hemimellitene), ICSC 1389 Trimethylbenzene (mixed isomers). 1,3,5-Trimethylbenzene (Mesitylene) is classified as a marine pollutant.

Transport Emergency Card: TEC (R)-30GF1-III
NFPA Code: H0; F2; R0;

ADDITIONAL INFORMATION

ICSC: 1433	1,2,4-TRIMETHYLBENZENE
(C) IPCS, CEC, 1994	

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International Chemical Safety Cards

1,3,5-TRIMETHYLBENZENE

ICSC: 1155



Mesitylene
C₉H₁₂
Molecular mass: 120.2

ICSC # 1155
CAS # 108-67-8
RTECS # [OX6825000](#)
UN # 2325
EC # 601-025-00-5
March 06, 2002 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Alcohol-resistant foam, dry powder, carbon dioxide.
EXPLOSION	Above 50°C explosive vapour/air mixtures may be formed.	Above 50°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT GENERATION OF MISTS!	
• INHALATION	Confusion. Cough. Dizziness. Drowsiness. Headache. Sore throat. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• SKIN	Redness. Dry skin.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
• EYES	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• INGESTION	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants. Well closed. Keep in a well-ventilated room.	Marine pollutant. Xi symbol N symbol R: 10-37-51/53 S: 2-61 UN Hazard Class: 3 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 1155

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

1,3,5-TRIMETHYLBENZENE

ICSC: 1155

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR. PHYSICAL DANGERS: CHEMICAL DANGERS: The substance decomposes on burning producing toxic and irritating fumes. Reacts violently with strong oxidants causing fire and explosion hazard. OCCUPATIONAL EXPOSURE LIMITS: TLV (as mixed isomers): 25 ppm; (ACGIH 2001). MAK (all isomers): 20 ppm; 100 mg/m³; class II 1 © (2001) OSHA PEL[†]: none NIOSH REL: TWA 25 ppm (125 mg/m³) NIOSH IDLH: N.D. See: IDLH INDEX	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation. INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster. EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes the skin and the respiratory tract If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. The substance may cause effects on the central nervous system. EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. Lungs may be affected by repeated or prolonged exposure, resulting in chronic bronchitis. The substance may have effects on the central nervous system blood See Notes.

PHYSICAL PROPERTIES	Boiling point: 165°C Melting point: -45°C Relative density (water = 1): 0.86 Solubility in water: very poor Vapour pressure, kPa at 20°C: 0.25	Relative vapour density (air = 1): 4.1 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 50°C (c.c.) Auto-ignition temperature: 550°C Octanol/water partition coefficient as log Pow: 3.42

ENVIRONMENTAL DATA	The substance is harmful to aquatic organisms. Bioaccumulation of this chemical may occur in fish.	

NOTES

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is indicated. See ICSC 1433 1,2,4-Trimethylbenzene (Pseudocumene), ICSC 1362 1,2,3-Trimethylbenzene (Hemimellitene), ICSC 1389 Trimethylbenzene (mixed isomers).

Transport Emergency Card: TEC (R)-30S2325
NFPA Code: H0; F2; R0

ADDITIONAL INFORMATION

ICSC: 1155	1,3,5-TRIMETHYLBENZENE

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International Chemical Safety Cards

BENZENE

ICSC: 0015



Cyclohexatriene
Benzol
 C_6H_6
Molecular mass: 78.1

ICSC # 0015
CAS # 71-43-2
RTECS # [CY1400000](#)
UN # 1114
EC # 601-020-00-8
May 06, 2003 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
EXPLOSION	Vapour/air mixtures are explosive. Risk of fire and explosion: see Chemical Dangers.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling. Use non-sparking handtools. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		AVOID ALL CONTACT!	
• INHALATION	Dizziness. Drowsiness. Headache. Nausea. Shortness of breath. Convulsions. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• SKIN	MAY BE ABSORBED! Dry skin. Redness. Pain. (Further see Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
• EYES	Redness. Pain.	Face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• INGESTION	Abdominal pain. Sore throat. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: complete protective clothing including self-contained breathing apparatus.	Fireproof. Separated from food and feedstuffs oxidants halogens	Do not transport with food and feedstuffs. Note: E F symbol T symbol R: 45-46-11-36/38-48/23/24/25-65 S: 53-45 UN Hazard Class: 3 UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0015

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

BENZENE

ICSC: 0015

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR. PHYSICAL DANGERS: The vapour is heavier than air and may travel along the ground; distant ignition possible. As a result of flow, agitation, etc., electrostatic charges can be generated. CHEMICAL DANGERS: Reacts violently with oxidants, nitric acid, sulfuric acid and halogens causing fire and explosion hazard. Attacks plastic and rubber. OCCUPATIONAL EXPOSURE LIMITS: TLV: 0.5 ppm as TWA 2.5 ppm as STEL (skin) A1 BEI (ACGIH 2004). MAK: H Carcinogen category: 1 Germ cell mutagen group: 3A (DFG 2004). OSHA PEL: 1910.1028 TWA 1 ppm ST 5 ppm See Appendix F NIOSH REL: Ca TWA 0.1 ppm ST 1 ppm See Appendix A NIOSH IDLH: Ca 500 ppm See: 71432	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation through the skin and by ingestion INHALATION RISK: A harmful contamination of the air can be reached very quickly on evaporation of this substance at 20°C. EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes the skin and the respiratory tract Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The substance may cause effects on the central nervous system , resulting in lowering of consciousness Exposure far above the occupational exposure limit value may result in unconsciousness death EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. The substance may have effects on the bone marrow immune system , resulting in a decrease of blood cells. This substance is carcinogenic to humans.

PHYSICAL PROPERTIES	Boiling point: 80°C Melting point: 6°C Relative density (water = 1): 0.88 Solubility in water, g/100 ml at 25°C: 0.18 Vapour pressure, kPa at 20°C: 10 Relative vapour density (air = 1): 2.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.2 Flash point: -11°C c.c. Auto-ignition temperature: 498°C Explosive limits, vol% in air: 1.2-8.0 Octanol/water partition coefficient as log Pow: 2.13

ENVIRONMENTAL DATA	The substance is very toxic to aquatic organisms. 

NOTES

Use of alcoholic beverages enhances the harmful effect. Depending on the degree of exposure, periodic medical examination is indicated. The odour warning when the exposure limit value is exceeded is insufficient.

Transport Emergency Card: TEC (R)-30S1114 / 30GF1-II
NFPA Code: H2; F3; R0

ADDITIONAL INFORMATION

ICSC: 0015	
(C) IPCS, CEC, 1994	
BENZENE	

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International Chemical Safety Cards

ETHYLBENZENE

ICSC: 0268



Ethylbenzol
Phenylethane
EB
 $C_8H_{10} / C_6H_5C_2H_5$
Molecular mass: 106.2

ICSC # 0268
CAS # 100-41-4
RTECS # [DA0700000](#)
UN # 1175
EC # 601-023-00-4
March 13, 1995 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
EXPLOSION	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT GENERATION OF MISTS!	
• INHALATION	Cough. Dizziness. Drowsiness. Headache.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• SKIN	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• EYES	Redness. Pain. Blurred vision.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• INGESTION	(Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Personal protection: A filter respirator for organic gases and vapours.	Fireproof. Separated from strong oxidants.	F symbol Xn symbol R: 11-20 S: 2-16-24/25-29 UN Hazard Class: 3 UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0268

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

ETHYLBENZENE

ICSC: 0268

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH AROMATIC ODOUR. PHYSICAL DANGERS: The vapour mixes well with air, explosive mixtures are easily formed. CHEMICAL DANGERS: Reacts with strong oxidants. Attacks plastic and rubber. OCCUPATIONAL EXPOSURE LIMITS: TLV: 100 ppm as TWA 125 ppm as STEL A3 (confirmed animal carcinogen with unknown relevance to humans); BEI issued (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 3A; (DFG 2004). OSHA PEL: TWA 100 ppm (435 mg/m³) NIOSH REL: TWA 100 ppm (435 mg/m³) ST 125 ppm (545 mg/m³) NIOSH IDLH: 800 ppm 10%LEL See: 100414	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its vapour, through the skin and by ingestion. INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C. EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes the skin and the respiratory tract Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The substance may cause effects on the central nervous system Exposure far above the OEL could cause lowering of consciousness. EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis.

PHYSICAL PROPERTIES	Boiling point: 136°C Melting point: -95°C Relative density (water = 1): 0.9 Solubility in water, g/100 ml at 20°C: 0.015 Vapour pressure, kPa at 20°C: 0.9 Relative vapour density (air = 1): 3.7	Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 18°C c.c. Auto-ignition temperature: 432°C Explosive limits, vol% in air: 1.0-6.7 Octanol/water partition coefficient as log Pow: 3.2

ENVIRONMENTAL DATA	The substance is harmful to aquatic organisms.	

NOTES

The odour warning when the exposure limit value is exceeded is insufficient.	Transport Emergency Card: TEC (R)-30S1175 or 30GF1-I+II NFPA Code: H2; F3; R0

ADDITIONAL INFORMATION

ICSC: 0268	ETHYLBENZENE

(C) IPCS, CEC, 1994

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International Chemical Safety Cards

NAPHTHALENE

ICSC: 0667



Naphthene
C₁₀H₈

Molecular mass: 128.18

ICSC # 0667

CAS # 91-20-3

RTECS # [QJ0525000](#)

UN # 1334 (solid); 2304 (molten)

EC # 601-052-00-2

April 21, 2005 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Above 80°C explosive vapour/air mixtures may be formed. Finely dispersed particles form explosive mixtures in air.	Prevent deposition of dust; closed system, dust explosion-proof electrical equipment and lighting.	
EXPOSURE		PREVENT DISPERSION OF DUST!	
• INHALATION	Headache. Weakness. Nausea. Vomiting. Sweating. Confusion. Jaundice. Dark urine.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• SKIN	MAY BE ABSORBED! (Further see Inhalation).	Protective gloves.	Rinse skin with plenty of water or shower.
• EYES		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• INGESTION	Abdominal pain. Diarrhoea. Convulsions. Unconsciousness. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rest. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Personal protection: filter respirator for organic gases and vapours. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.	Separated from strong oxidants, food and feedstuffs. Store in an area without drain or sewer access.	Do not transport with food and feedstuffs. Marine pollutant. Xn symbol N symbol R: 22-40-50/53 S: 2-36/37-46-60-61 UN Hazard Class: 4.1 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0667

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

NAPHTHALENE

ICSC: 0667

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: WHITE SOLID IN VARIOUS FORMS , WITH CHARACTERISTIC ODOUR. PHYSICAL DANGERS: Dust explosion possible if in powder or granular form, mixed with air. CHEMICAL DANGERS: On combustion, forms irritating and toxic gases. Reacts with strong oxidants . OCCUPATIONAL EXPOSURE LIMITS: TLV: 10 ppm as TWA; 15 ppm as STEL; (skin); A4 (not classifiable as a human carcinogen); (ACGIH 2005). MAK: skin absorption (H); Carcinogen category: 2; Germ cell mutagen group: 3B; (DFG 2004). OSHA PEL[†]: TWA 10 ppm (50 mg/m³) NIOSH REL: TWA 10 ppm (50 mg/m³) ST 15 ppm (75 mg/m³) NIOSH IDLH: 250 ppm See: 91203	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion. INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C. See Notes. EFFECTS OF SHORT-TERM EXPOSURE: The substance may cause effects on the blood , resulting in lesions of blood cells (haemolysis) . See Notes. The effects may be delayed. Exposure by ingestion may result in death. Medical observation is indicated. EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The substance may have effects on the blood , resulting in chronic haemolytic anaemia. The substance may have effects on the eyes , resulting in the development of cataract. This substance is possibly carcinogenic to humans.
PHYSICAL PROPERTIES	Boiling point: 218°C Sublimation slowly at room temperature Melting point: 80°C Density: 1.16 g/cm³ Solubility in water, g/100 ml at 25°C: none	Vapour pressure, Pa at 25°C: 11 Relative vapour density (air = 1): 4.42 Flash point: 80°C c.c. Auto-ignition temperature: 540°C Explosive limits, vol% in air: 0.9-5.9 Octanol/water partition coefficient as log Pow: 3.3
ENVIRONMENTAL DATA	The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment.	
NOTES		
Some individuals may be more sensitive to the effect of naphthalene on blood cells. Transport Emergency Card: TEC (R)-41S1334 (solid); 41GF1-II+III (solid); 41S2304 (molten) NFPA Code: H2; F2; R0;		
ADDITIONAL INFORMATION		
ICSC: 0667	NAPHTHALENE (C) IPCS, CEC, 1994	
IMPORTANT LEGAL NOTICE:	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

Material Safety Data Sheet

Version 4.0

Revision Date 07/28/2010

Print Date 12/07/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Propylbenzene

Product Number : P52407

Brand : Aldrich

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Combustible Liquid

Target Organs

Lungs, Eyes, Kidney

GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H226

Flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H335

May cause respiratory irritation.

H401

Toxic to aquatic life.

Precautionary statement(s)

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331

Do NOT induce vomiting.

HMIS Classification

Health hazard:

0

Chronic Health Hazard:

*

Flammability:

2

Physical hazards:

0

NFPA Rating

Health hazard:

1

Fire:

2

Reactivity Hazard:

0

Potential Health Effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion

Aspiration hazard if swallowed - can enter lungs and cause damage. May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 1-Phenylpropane

Formula : C₉H₁₂

Molecular Weight : 120.19 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Propylbenzene			
103-65-1	203-132-9	601-024-00-X	-

4. FIRST AID MEASURES**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid, clear
Colour	colourless

Safety data

pH	no data available
Melting point	-99 °C (-146 °F) - lit.
Boiling point	159 °C (318 °F) - lit.
Flash point	42.0 °C (107.6 °F) - closed cup
Ignition temperature	450 °C (842 °F)
Lower explosion limit	0.8 %(V)
Upper explosion limit	6 %(V)
Density	0.862 g/cm ³ at 25 °C (77 °F)
Water solubility	slightly soluble

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50 Oral - rat - 6,040 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity).

LC50 Inhalation - rat - 2 h - 65000 ppm

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

May be fatal if swallowed and enters airways.

Potential health effects**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

Aspiration hazard if swallowed - can enter lungs and cause damage. May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Signs and Symptoms of Exposure

Damage to the lungs., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: DA8750000

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish

LC50 - Oncorhynchus mykiss (rainbow trout) - 1.55 mg/l - 96.0 h

Toxicity to daphnia and other aquatic invertebrates. Immobilization EC50 - Daphnia magna (Water flea) - 2 mg/l - 24 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2364 Class: 3 Packing group: III
Proper shipping name: n-Propyl benzene
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN-Number: 2364 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: PROPYLBENZENE
Marine pollutant: No

IATA

UN-Number: 2364 Class: 3 Packing group: III
Proper shipping name: n-Propylbenzene

15. REGULATORY INFORMATION

OSHA Hazards

Combustible Liquid

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right To Know Components

Propylbenzene

CAS-No.
103-65-1Revision Date
2007-03-01**Pennsylvania Right To Know Components**

Propylbenzene

CAS-No.
103-65-1Revision Date
2007-03-01**New Jersey Right To Know Components**

Propylbenzene

CAS-No.
103-65-1Revision Date
2007-03-01**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION**Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

International Chemical Safety Cards

o-XYLENE

ICSC: 0084



ortho-Xylene
1,2-Dimethylbenzene
o-Xylol
 $C_6H_4(CH_3)_2 / C_8H_{10}$
Molecular mass: 106.2

ICSC # 0084
CAS # 95-47-6
RTECS # [ZE2450000](#)
UN # 1307
EC # 601-022-00-9
August 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Above 32°C explosive vapour/air mixtures may be formed.	Above 32°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
•INHALATION	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
•SKIN	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants and strong acids .	Note: C Xn symbol R: 10-20/21-38 S: 2-25 UN Hazard Class: 3 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0084

European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

o-XYLENE

ICSC: 0084

I M P O R T A N T A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
	PHYSICAL DANGERS: As a result of flow, agitation, etc., electrostatic charges can be generated.	INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.
	CHEMICAL DANGERS: Reacts with strong acids and strong oxidants .	EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the skin . The substance may cause effects on the central nervous system . If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.
	OCCUPATIONAL EXPOSURE LIMITS: TLV: 100 ppm as TWA; 150 ppm as STEL A4 (ACGIH 2001). BEI specified by (ACGIH 2001). EU OEL: 50 ppm as TWA; 100 ppm as STEL (skin) (EU 2000). OSHA PEL†: TWA 100 ppm (435 mg/m³) NIOSH REL: TWA 100 ppm (435 mg/m³) ST 150 ppm (655 mg/m³) NIOSH IDLH: 900 ppm See: 95476	EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. The substance may have effects on the central nervous system. Exposure to the substance may enhance hearing damage caused by exposure to noise. Animal tests show that this substance possibly causes toxicity to human reproduction or development.
PHYSICAL PROPERTIES	Boiling point: 144°C Melting point: -25°C Relative density (water = 1): 0.88 Solubility in water: none Vapour pressure, kPa at 20°C: 0.7	Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 32°C c.c. Auto-ignition temperature: 463°C Explosive limits, vol% in air: 0.9-6.7 Octanol/water partition coefficient as log Pow: 3.12
ENVIRONMENTAL DATA	The substance is toxic to aquatic organisms.	
NOTES		
Depending on the degree of exposure, periodic medical examination is indicated. The recommendations on this Card also apply to technical xylene. See ICSC 0086 p-Xylene and 0085 m-Xylene.		
Transport Emergency Card: TEC (R)-30S1307-III		
NFPA Code: H 2; F 3; R 0; Card has been partially updated in January 2008: see Occupational Exposure Limits.		
ADDITIONAL INFORMATION		
ICSC: 0084		
o-XYLENE		
(C) IPCS, CEC, 1994		

**IMPORTANT
LEGAL**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only

NOTICE:

modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

p-XYLENE

ICSC: 0086



para-Xylene
1,4-Dimethylbenzene
p-Xylol
 $C_6H_4(CH_3)_2$ / C_8H_{10}
Molecular mass: 106.2

ICSC # 0086
CAS # 106-42-3
RTECS # [ZE2625000](#)
UN # 1307
EC # 601-022-00-9
August 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Above 27°C explosive vapour/air mixtures may be formed.	Above 27°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
•INHALATION	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
•SKIN	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
•EYES	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants, strong acids	Note: C Xn symbol R: 10-20/21-38 S: 2-25 UN Hazard Class: 3 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0086

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

p-XYLENE

ICSC: 0086

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR. PHYSICAL DANGERS: As a result of flow, agitation, etc., electrostatic charges can be generated. CHEMICAL DANGERS: Reacts with strong acids strong oxidants OCCUPATIONAL EXPOSURE LIMITS: TLV: 100 ppm as TWA 150 ppm as STEL A4 (ACGIH 2001). BEI (ACGIH 2001). MAK: 100 ppm 440 mg/m³ Peak limitation category: II(2) skin absorption (H); Pregnancy risk group: D (DFG 2005). EU OEL: 50 ppm as TWA 100 ppm as STEL (skin) (EU 2000). OSHA PEL[†]: TWA 100 ppm (435 mg/m³) NIOSH REL: TWA 100 ppm (435 mg/m³) ST 150 ppm (655 mg/m³) NIOSH IDLH: 900 ppm See: 95476	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion. INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C. EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the skin The substance may cause effects on the central nervous system If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. The substance may have effects on the central nervous system. Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES	Boiling point: 138°C Melting point: 13°C Relative density (water = 1): 0.86 Solubility in water: none Vapour pressure, kPa at 20°C: 0.9	Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 27°C c.c. Auto-ignition temperature: 528°C Explosive limits, vol% in air: 1.1-7.0 Octanol/water partition coefficient as log Pow: 3.15

ENVIRONMENTAL DATA	The substance is toxic to aquatic organisms.	

NOTES

Depending on the degree of exposure, periodic medical examination is indicated. The recommendations on this Card also apply to technical xylene. See ICSC 0084 o-Xylene and 0085 m-Xylene.

Transport Emergency Card: TEC (R)-30S1307-III
NFPA Code: H 2; F 3; R 0;

ADDITIONAL INFORMATION

ICSC: 0086	p-XYLENE

(C) IPCS, CEC, 1994

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International Chemical Safety Cards

m-XYLENE

ICSC: 0085



meta-Xylene
1,3-Dimethylbenzene
m-Xylol
 $C_6H_4(CH_3)_2 / C_8H_{10}$
Molecular mass: 106.2

ICSC # 0085
CAS # 108-38-3
RTECS # [ZE2275000](#)
UN # 1307
EC # 601-022-00-9
August 03, 2002 Validated



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Flammable.	NO open flames, NO sparks, and NO smoking.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Above 27°C explosive vapour/air mixtures may be formed.	Above 27°C use a closed system, ventilation, and explosion-proof electrical equipment. Prevent build-up of electrostatic charges (e.g., by grounding).	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		STRICT HYGIENE!	
• INHALATION	Dizziness. Drowsiness. Headache. Nausea.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• SKIN	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
• EYES	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• INGESTION	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: filter respirator for organic gases and vapours.)	Fireproof. Separated from strong oxidants strong acids	Note: C Xn symbol R: 10-20/21-38 S: 2-25 UN Hazard Class: 3 UN Packing Group: III

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0085

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

m-XYLENE

ICSC: 0085

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR.	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
	PHYSICAL DANGERS: As a result of flow, agitation, etc., electrostatic charges can be generated.	INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.
	CHEMICAL DANGERS: Reacts with strong acids strong oxidants	EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the skin The substance may cause effects on the central nervous system If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.
	OCCUPATIONAL EXPOSURE LIMITS: TLV: 100 ppm as TWA 150 ppm as STEL A4 (ACGIH 2001). BEI (ACGIH 2001). MAK: 100 ppm 440 mg/m³ Peak limitation category: II(2) skin absorption (H); Pregnancy risk group: D (DFG 2005). EU OEL: 50 ppm as TWA 100 ppm as STEL (skin) (EU 2000). OSHA PEL†: TWA 100 ppm (435 mg/m³) NIOSH REL: TWA 100 ppm (435 mg/m³) ST 150 ppm (655 mg/m³) NIOSH IDLH: 900 ppm See: 95476	EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. The substance may have effects on the central nervous system Animal tests show that this substance possibly causes toxicity to human reproduction or development.
PHYSICAL PROPERTIES	Boiling point: 139°C Melting point: -48°C Relative density (water = 1): 0.86 Solubility in water: none Vapour pressure, kPa at 20°C: 0.8	Relative vapour density (air = 1): 3.7 Relative density of the vapour/air-mixture at 20°C (air = 1): 1.02 Flash point: 27°C c.c. Auto-ignition temperature: 527°C Explosive limits, vol% in air: 1.1-7.0 Octanol/water partition coefficient as log Pow: 3.20
ENVIRONMENTAL DATA	The substance is toxic to aquatic organisms.	
NOTES		
Depending on the degree of exposure, periodic medical examination is indicated. The recommendations on this Card also apply to technical xylene. See ICSC 0084 o-Xylene and 0086 p-Xylene.		
NFPA Code: H 2; F 3; R 0; Transport Emergency Card: TEC (R)-30S1307-III		
ADDITIONAL INFORMATION		
ICSC: 0085		
(C) IPCS, CEC, 1994		
IMPORTANT LEGAL NOTICE:	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.	

International Chemical Safety Cards

TOLUENE

ICSC: 0078



Methylbenzene
Toluol
Phenylmethane
 $C_6H_5CH_3$ / C_7H_8
Molecular mass: 92.1

ICSC # 0078
CAS # 108-88-3
RTECS # [XS5250000](#)
UN # 1294
EC # 601-021-00-3
October 10, 2002 Peer reviewed



TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Highly flammable.	NO open flames, NO sparks, and NO smoking.	Powder, AFFF, foam, carbon dioxide.
EXPLOSION	Vapour/air mixtures are explosive.	Closed system, ventilation, explosion-proof electrical equipment and lighting. Prevent build-up of electrostatic charges (e.g., by grounding). Do NOT use compressed air for filling, discharging, or handling. Use non-sparking handtools.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
• INHALATION	Cough. Sore throat. Dizziness. Drowsiness. Headache. Nausea. Unconsciousness.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
• SKIN	Dry skin. Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
• EYES	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
• INGESTION	Burning sensation. Abdominal pain. (Further see Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.
SPILLAGE DISPOSAL		STORAGE	PACKAGING & LABELLING
Evacuate danger area in large spill! Consult an expert in large spill! Remove all ignition sources. Ventilation. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer. Do NOT let this chemical enter the environment. Personal protection: self-contained breathing apparatus		Fireproof. Separated from strong oxidants.	F symbol Xn symbol R: 11-38-48/20-63-65-67 S: 2-36/37-46-62 UN Hazard Class: 3 UN Packing Group: II

SEE IMPORTANT INFORMATION ON BACK

ICSC: 0078

Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

International Chemical Safety Cards

TOLUENE

ICSC: 0078

I M P O R T A N T D A T A	PHYSICAL STATE; APPEARANCE: COLOURLESS LIQUID , WITH CHARACTERISTIC ODOUR. PHYSICAL DANGERS: The vapour mixes well with air, explosive mixtures are formed easily. As a result of flow, agitation, etc., electrostatic charges can be generated. CHEMICAL DANGERS: Reacts violently with strong oxidants causing fire and explosion hazard. OCCUPATIONAL EXPOSURE LIMITS: TLV: 50 ppm as TWA (skin) A4 BEI issued (ACGIH 2004). MAK: 50 ppm 190 mg/m³ H Peak limitation category: II(4) Pregnancy risk group: C (DFG 2004). OSHA PEL[†]: TWA 200 ppm C 300 ppm 500 ppm (10-minute maximum peak) NIOSH REL: TWA 100 ppm (375 mg/m³) ST 150 ppm (560 mg/m³) NIOSH IDLH: 500 ppm See: 108883	ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion. INHALATION RISK: A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C. EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes and the respiratory tract The substance may cause effects on the central nervous system If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis. Exposure at high levels may result in cardiac dysrhythmiaandunconsciousness. EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. The substance may have effects on the central nervous system Exposure to the substance may enhance hearing damage caused by exposure to noise. Animal tests show that this substance possibly causes toxicity to human reproduction or development.

PHYSICAL PROPERTIES	Boiling point: 111°C Melting point: -95°C Relative density (water = 1): 0.87 Solubility in water: none Vapour pressure, kPa at 25°C: 3.8 Relative vapour density (air = 1): 3.1	Relative density of the vapour/air-mixture at 20°C (air = 1): 1.01 Flash point: 4°C c.c. Auto-ignition temperature: 480°C Explosive limits, vol% in air: 1.1-7.1 Octanol/water partition coefficient as log Pow: 2.69

ENVIRONMENTAL DATA	The substance is toxic to aquatic organisms.	

NOTES

Depending on the degree of exposure, periodic medical examination is suggested. Use of alcoholic beverages enhances the harmful effect.

Transport Emergency Card: TEC (R)-30S1294
NFPA Code: H 2; F 3; R 0;

ADDITIONAL INFORMATION

ICSC: 0078	TOLUENE (C) IPCS, CEC, 1994

IMPORTANT LEGAL NOTICE:	Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

APPENDIX D
HOSPITAL INFORMATION AND MAP
FIELD ACCIDENT REPORT

FIELD ACCIDENT REPORT

This report is to be filled out by the designated Site Safety Officer after EVERY accident.

PROJECT NAME _____ PROJECT. NO. _____

Date of Accident _____ Time _____ Report By _____

Type of Accident (Check One):

☐ () Vehicular

☐ () Personal

☐ () Property

Name of Injured _____ DOB or Age _____

How Long Employed _____

Names of Witnesses _____

Description of Accident _____

Action Taken _____

Did the Injured Lose Any Time? _____ How Much (Days/Hrs.)? _____

Was Safety Equipment in Use at the Time of the Accident (Hard Hat, Safety Glasses, Gloves, Safety Shoes, etc.)? _____

(If not, it is the EMPLOYEE'S sole responsibility to process his/her claim through his/her Health and Welfare Fund.)

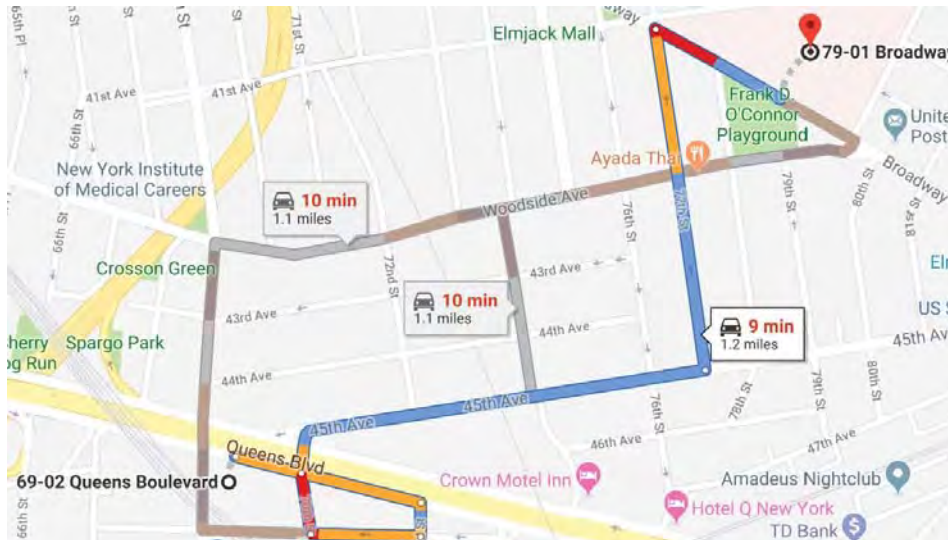
INDICATE STREET NAMES, DESCRIPTION OF VEHICLES, AND NORTH ARROW

HOSPITAL INFORMATION AND MAP

The hospital nearest the site is:

NYC Health + Hospitals/Elmhurst: Emergency Room
79-01 Broadway
Elmhurst, NY 11373
(718) 334-4000

1.2 Miles – About 9 Minutes



69-02 Queens Blvd

Flushing, NY 11377

- ↑ 1. Head east on New York 25 Service/Queens Blvd toward 70th St
0.2 mi
- 2. Turn right onto 72nd St
154 ft
- 3. Turn right at the 1st cross street onto 47th Ave
0.1 mi
- 4. Turn right at the 1st cross street onto 70th St
285 ft
- ↑ 5. Continue onto 45th Ave
0.4 mi
- 6. Turn left onto 77th St
0.3 mi
- 7. Turn right at the 2nd cross street onto Broadway
0.1 mi
Destination will be on the left

79-01 Broadway

Flushing, NY 11373

APPENDIX G
RSO TOC

REMEDIAL SYSTEM OPTIMIZATION FOR [Site Name]

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Responsibilities of Owner and Remedial Party

RESPONSIBILITIES of OWNER and REMEDIAL PARTY

Responsibilities

The responsibilities for implementing the Site Management Plan (“SMP”) for the Former Pfizer Site A site (the “Site”), number C224284, are divided between the site owner(s) and a Remedial Party, as defined below. The owner(s) is/are currently listed as:

QB Development Owner LLC
520 Madison Avenue, Suite 3501
New York, NY 10012

Solely for the purposes of this document and based upon the facts related to a particular site and the remedial program being carried out, the term Remedial Party (“RP”) refers to any of the following: certificate of completion holder, volunteer, applicant, responsible party, and, in the event the New York State Department of Environmental Conservation (“NYSDEC”) is carrying out remediation or site management, the NYSDEC and/or an agent acting on its behalf. The RP is:

QB Development Owner LLC
520 Madison Avenue, Suite 3501
New York, NY 10012

Nothing on this page shall supersede the provisions of an Environmental Easement, Consent Order, Consent Decree, agreement, or other legally binding document that affects rights and obligations relating to the site.

Site Owner’s Responsibilities:

- 1) The owner shall follow the provisions of the SMP as they relate to future construction and excavation at the site.
- 2) In accordance with a periodic time frame determined by the NYSDEC, the owner shall periodically certify, in writing, that all Institutional Controls set forth in the Environmental Easement remain in place and continue to be complied with. The owner shall provide a written certification to the RP, upon the RP’s request, in order to allow

the RP to include the certification in the site's Periodic Review Report (PRR) certification to the NYSDEC.

- 3) The owner remains bound by the Environmental Easement and shall submit, upon request by the NYSDEC, a written certification that the Environmental Easement is still in place and has been complied with.
- 4) The owner shall grant access to the site to the RP and the NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.
- 5) The owner is responsible for assuring the security of the remedial components located on its property to the best of its ability. In the event that damage to the remedial components or vandalism is evident, the owner shall notify the site's RP and the NYSDEC in accordance with the timeframes indicated in Section 1.3-Notifications.
- 6) In the event some action or inaction by the owner adversely impacts the site, the owner must notify the site's RP and the NYSDEC in accordance with the time frame indicated in Section 1.3 - Notifications and (ii) coordinate the performance of necessary corrective actions with the RP.
- 7) The owner must notify the RP and the NYSDEC of any change in ownership of the site property (identifying the tax map numbers in any correspondence) and provide contact information for the new owner of the site property/ies. 6 NYCRR Part contains notification requirements applicable to any construction or activity changes and changes in ownership. Among the notification requirements is the following: Sixty days prior written notification must be made to the NYSDEC. Notification is to be submitted to the NYSDEC Division of Environmental Remediation's Site Control Section. Notification requirements for a change in use are detailed in Section 1.3 of the SMP. A 60-Day Advance Notification Form and Instructions are found at <http://www.dec.ny.gov/chemical/76250.html>.
- 8) In accordance with the tenant notification law, within 15 days of receipt, the owner must supply a copy of any vapor intrusion data, that is produced with respect to structures and that exceeds NYSDOH or OSHA guidelines on the site, whether produced by the NYSDEC, RP, or owner, to the tenants on the property. The owner must otherwise comply with the tenant and occupant notification provisions of

Environmental Conservation Law Article 27, Title 24.

Remedial Party Responsibilities

- 1) The RP must follow the SMP provisions regarding any construction and/or excavation it undertakes at the site.
- 2) The RP shall report to the NYSDEC all activities required for remediation, operation, maintenance, monitoring, and reporting. Such reporting includes, but is not limited to, periodic review reports and certifications, electronic data deliverables, corrective action work plans and reports, and updated SMPs.
- 3) Before accessing the site property to undertake a specific activity, the RP shall provide the owner advance notification that shall include an explanation of the work expected to be completed. The RP shall provide to (i) the owner, upon the owner's request, (ii) the NYSDEC, and (iii) other entities, if required by the SMP, a copy of any data generated during the site visit and/or any final report produced.
- 4) If the NYSDEC determines that an update of the SMP is necessary, the RP shall update the SMP and obtain final approval from the NYSDEC. Within 5 business days after NYSDEC approval, the RP shall submit a copy of the approved SMP to the owner(s).
- 5) The RP shall notify the NYSDEC and the owner of any changes in RP ownership and/or control and of any changes in the party/entity responsible for the operation, maintenance, and monitoring of and reporting with respect to any remedial system (Engineering Controls). The RP shall provide contact information for the new party/entity. Such activity constitutes a Change of Use pursuant to 375-1.11(d) and requires 60-days prior notice to the NYSDEC. A 60-Day Advance Notification Form and Instructions are found at <http://www.dec.ny.gov/chemical/76250.html>.
- 6) The RP shall notify the NYSDEC of any damage to or modification of the systems as required under Section 1.3 - Notifications of the SMP.
- 7) Prior to a change in use that impacts the remedial system or requirements and/or responsibilities for implementing the SMP, the RP shall submit to the NYSDEC for approval an amended SMP.
- 8) Any change in use, change in ownership, change in site classification (e.g., delisting),

reduction or expansion of remediation, and other significant changes related to the site may result in a change in responsibilities and, therefore, necessitate an update to the SMP and/or updated legal documents. The RP shall contact the Department to discuss the need to update such documents.

Change in RP ownership and/or control and/or site ownership does not affect the RP's obligations with respect to the site unless a legally binding document executed by the NYSDEC releases the RP of its obligations.

Future site owners and RPs and their successors and assigns are required to carry out the activities set forth above.

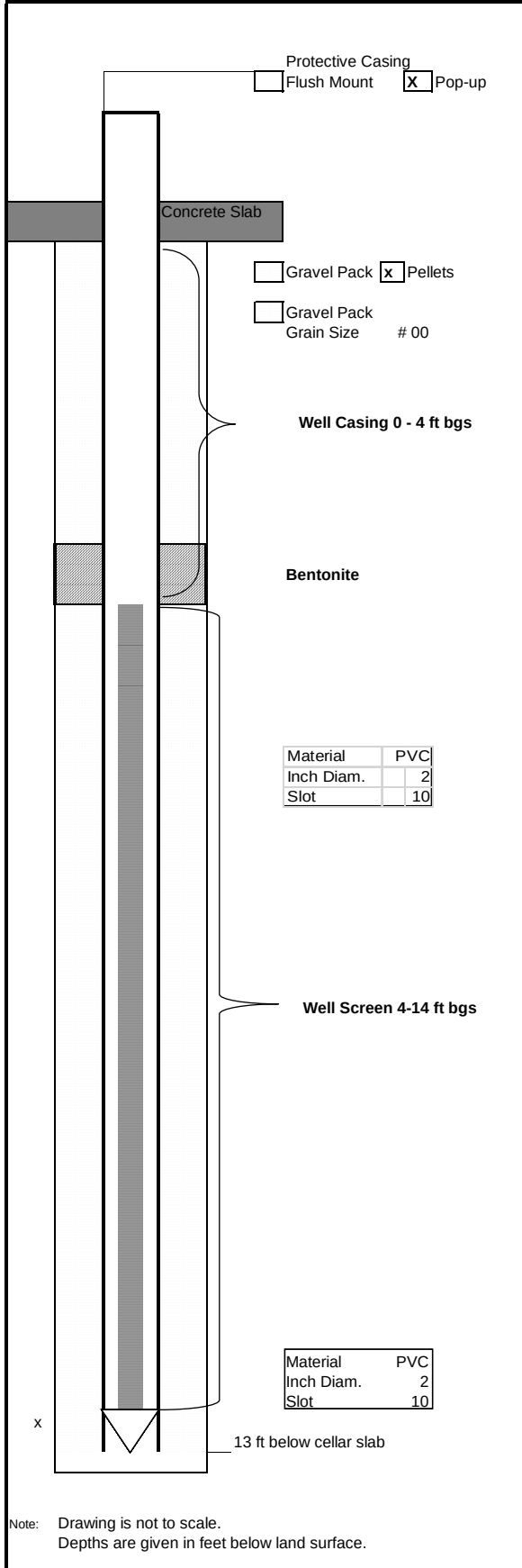
APPENDIX I

Groundwater Construction Logs and Elevation Data

GROUNDWATER MONITORING WELL

CONSTRUCTION LOG

19MW9



Monitoring Well No.: 19MW9

Project: 69-02 Queens Blvd. Queens

Depth to Groundwater: 6ft below slab Date: 4/23/2021

Installation Depth: 14'

Survey Point Elevation:

Installation Date: 7/23/2021

Drilling Contractor: Eastern Environmental solutions

Installation Method: Geoprobe 7822DT

Water Removed During Development:

Hydrogeologist: Jason Hsu

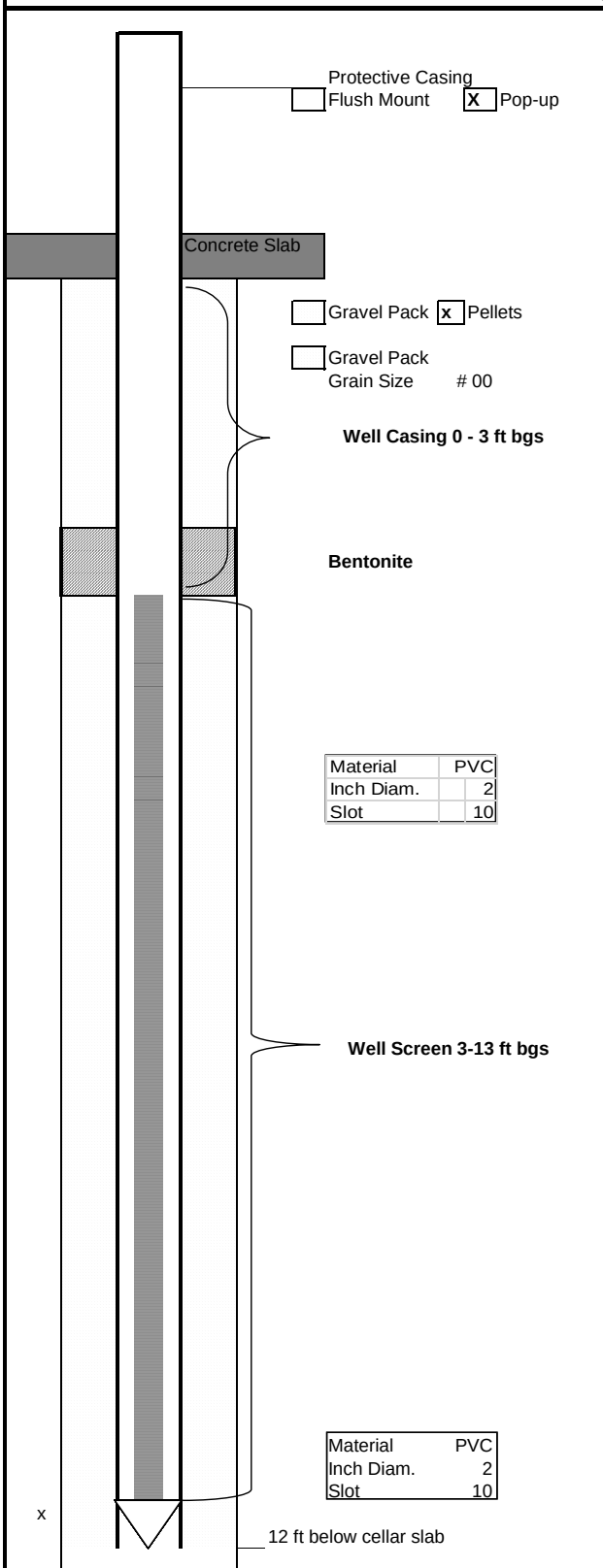
Company Name: EBC

Note: Drawing is not to scale.
 Depths are given in feet below land surface.

GROUNDWATER MONITORING WELL

CONSTRUCTION LOG

20MW10



Monitoring Well No.: 20MW10

Project: 69-02 Queens Blvd. Queens

Depth to Groundwater: 6ft below slab Date: 7/23/2021

Installation Depth: 13'

Survey Point Elevation:

Installation Date: 7/23/2021

Drilling Contractor: Eastern Environmental solutions

Installation Method: Geoprobe 7822DT

Water Removed During Development:

Hydrogeologist: Jason Hsu

Company Name: EBC

Note: Drawing is not to scale.
 Depths are given in feet below land surface.

Note: Drawing is not to scale.
Depths are given in feet below land surface.

APPENDIX J
Field Sampling Plan

69-02 QUEENS BOULEVARD

**46-09 69th Street and 46-10 70th Street
WOODSIDE, NEW YORK
Block 2432, Lots 8 and 9**

FIELD SAMPLING PLAN

NYSDEC Site Number: C241235

Prepared for:

QB Development Owner LLC
520 Madison Avenue, Suite 3501
New York, NY 10012

Prepared by:



AMC Engineering PLLC
18-36 42nd Street
Astoria, NY 11105
Phone: (718) 545-0474

NOVEMBER 2021

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WOODSIDE, NEW YORK

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List of Acronyms

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
GHG	Green House Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act

RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SSD	Sub-slab Depressurization
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

1.0 INTRODUCTION

1.1 General

This Field Sampling Plan is a part of the Site Management Plan for the 69-02 Queens Boulevard Site located in Queens, New York (hereinafter referred to as the “Site”).

QB Development Owner LLC (the Volunteer) entered into a Brownfield Cleanup Agreement with the New York State Department of Environmental Conservation (NYSDEC) in October 2019 to remediate a 1.65-acre property located in Woodside, Queens County, New York (Site No. C241235). A portion of the Site was remediated to Unrestricted Use SCOs (Track 1 portion of Site). The remaining area was remediated to Track 4 SCOs and will be used for restricted residential use (Track 4 portion of Site).

The Site is located in the Woodside section of Queens County (Figure 1) and is comprised of two irregular-shaped tax parcels identified as Block 2432, Lots 8 and 9. The Site is located between Queens Boulevard to the north, 70th Street to the east, 47th Avenue to the south and 69th Street to the west (Figure 2). The Site is approximately 1.65 acres (71,862 sf). The lot is currently being developed with two new buildings.

After completion of the remedial work, some contamination was left on the Track 4 portion of the Site, which is hereafter referred to as “remaining contamination”. The Site will be limited to restricted residential use, groundwater use is prohibited, and future excavation will be handled as per SMP. An in-situ chemical oxidation (ISCO) program utilizing chemical injections has been implemented at the Site. This Field Sampling Plan outlines the necessary methods to monitor the groundwater conditions as per the ISCO plan. This plan provides information on:

- Sampling locations, protocol and frequency;
 - Information on all designed monitoring systems;
 - Analytical sampling program requirements;
 - Inspection and maintenance requirements for monitoring wells;
 - Monitoring well decommissioning procedures; and
 - Annual inspection and periodic certification.
-

2.0 SUMMARY OF REMEDIAL ACTIONS

2.1 Remedial Actions Taken

The Site was remediated in accordance with the remedy selected by the Remedial Action Work Plan prepared by AMC in February 2020 (Revised June 2020), and the Decision Document dated June 2020.

A round of pre-injection groundwater samples were obtained from monitoring wells 19MW9, 20MW10, and 20MW11. Two In-Situ Chemical Oxidant Injections were performed into 5 injection points installed north/up gradient of 19MW9 on September 3, 2020, and June 2, 2021. Injections were performed by C Squared Environmental Corporation. Post-injection groundwater samples were obtained from each of the monitoring wells periodically after both the first and second rounds of injections. Additional samples will be obtained in the future to assess the effectiveness of the treatment process.

2.2 Remedial Action Objectives

The Remedial Action Work Plan identified the following Remedial Action Objectives (RAOs):

2.2.1 Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

2.2.2 Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.2.3 Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.
-

2.3 Remaining Contamination

2.3.1 Soil

Track 1 Portion of Site

The results of endpoint samples collected after excavation from the Track 1 portion of the Site was completed confirms that all soil meets Track 1 Unrestricted Use Soil Cleanup Objectives and no residual contamination remains at the Site.

Track 4 Portion of Site

The results of sampling performed during the Remedial Investigation identified residual petroleum VOCs at two locations (19B1 and 19B18) on the former gas station property (Track 4 portion of the Site) to a depth of approximately 15 to 25 ft below grade. This area of the property previously underwent substantial remediation, including surfactant-enhanced multi-phase extraction, the long-term operation of an air sparging / soil vapor extraction system, full excavation to depths of 25 ft and in-situ chemical oxidant injections. The concentrations of petroleum related VOCs detected within 19B1 and 19B18 are presented below:

19B1 (20-22) – 1,2,4-trimethylbenzene (7 mg/Kg), benzene (0.34 mg/Kg), ethylbenzene (6 mg/Kg), m&p-xylenes (5.1 mg/Kg), o-xylene (0.54 mg/Kg)

19B18 (18-20) - 1,3,5-trimethylbenzene (35 mg/Kg), ethylbenzene (38 mg/Kg), naphthalene (16 mg/Kg), n-propylbenzene (22 mg/Kg), o-xylene (33 mg/Kg), toluene (7.9 mg/Kg)

2.3.2 Groundwater

Gasoline related VOCs were detected above AWQS in groundwater in the area of MW9 during the RI and treated via in-situ chemical oxidant injections. Samples were obtained one month after injections, and quarterly thereafter. VOCs detected in groundwater following treatment based on the September 22, 2021, groundwater sampling event include 1,2,4-trimethylbenzene (max. of 8.3 ppb – duplicate), ethylbenzene (max. of 9 ppb), isopropylbenzene (max. of 16 ppb), n-propylbenzene (max. of 49 ppb), sec-butylbenzene

(max. of 14 ppb). Based on the Remedial Investigation sampling, concentrations of naturally occurring metals were detected in groundwater at concentrations exceeding the ambient water quality standards (AWQS). The maximum concentration of magnesium was 46,900 parts per billion (ppb) (AWQS is 300 ppb), manganese was 2,940 ppb (AWQS is 300 ppb), and sodium was 163,000 ppb (AWQS is 20,000 ppb). ECs were also detected in groundwater samples during the Remedial Investigation. The maximum combined concentrations of PFOA and PFOS was 392 parts per trillion (ppt). SVOCs detected above AWQS included benz(a)anthracene (0.04 µg/L), benzo(a)pyrene (0.02 µg/L), benzo(b)fluoranthene (0.02 µg/L), chrysene (0.04 µg/L). No PCBs or pesticides were detected at concentrations exceeding the applicable AWQS during the Remedial Investigation.

2.3.3 Surface Water

There is no surface water located on site. No remedial actions were undertaken for this media.

2.3.4 Soil Vapor and Sub-Slab Soil Gas

Based upon the Remedial Investigation results, petroleum-related VOCs such as benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in soil vapor samples. The level of total BTEX compounds ranged from about 7.15 µg/m³ to 14.82 µg/m³. CVOCs were reported in all of the soil vapor samples at relatively low concentrations, with carbon tetrachloride ranging from about 0.26 µg/m³ to 0.51 µg/m³, PCE ranging from 0.58 µg/m³ to 37.1 µg/m³, and TCE reported in five samples ranging from 0.24 µg/m³ to 27.6 µg/m³. During the Phase II investigation, heptane and hexane were detected in soil vapor at elevated concentrations of 7,040 µg/m³ and 21,600 µg/m³, respectively.

Based upon the Remedial Investigation and Phase II investigation results, BTEX and CVOCs were reported in all of three sub-slab vapor samples at relatively low concentrations. Total BTEX compounds ranged from about 8.29 µg/m³ to 45.9 µg/m³. PCE reported in all samples ranging from 1.62 µg/m³ to 4.34 µg/m³ and TCE reported in one sample at 0.24 µg/m³.

A soil vapor intrusion evaluation (see Section 5.2 of this SMP) must be performed upon a change in use of the property that will result in initial occupancy of a new building. The breadth of this evaluation will be determined based upon discussion with the NYSDEC Project manager and NYSDOH. Based upon these discussion and agency requirements, a work plan may need to be developed that requires that sampling be performed upon a change in use or as deemed necessary by the aforementioned entities. Upon completion of the evaluation, if an action is required, any actions taken or to be taken must be reflected in an updated SMP.

2.4 Engineering Controls

In-Situ Chemical Oxidation (ISCO) Injections Plan

To remediate dissolved phase petroleum VOCs in the vicinity of 19MW9, a chemical oxidant (sodium persulfate) was injected prior to and following the removal of the top 15 feet of impacted soil. Injections at these locations deliver oxidant within the impacted zone allowing it to flow south with groundwater.

The oxidant selected for this project consisted of a slurry mix of Klozur® CR, a self-activated persulfate oxidation (sodium persulfate, calcium peroxide) system. Sodium persulfate is a robust oxidant which has a long residence time (anion lifetime) in the subsurface. Activated persulfate provides fast contaminant reaction kinetics capable of destroying a wide range of organics including the petroleum VOCs present at the Site. Klozur® CR was delivered to the site as a dry powder and mixed with water on-site to provide a 20% (wt) slurry. The oxidant solution injections were performed through injection tooling using a Geoprobe.

The total contaminant demand to remediate the petroleum VOCs in groundwater was calculated at 18 pounds of oxidant. The RAWP proposed an increase to 140 pounds to account for natural oxidant demand and to include a safety factor to eliminate the possible need for subsequent injections.

Groundwater performance monitoring samples were collected from one existing monitoring well (19MW9) and two downgradient monitoring wells (20MW10 and 20MW11) installed south / southeast of 19MW9. The monitoring wells were 2-inch PVC consisting of 10 ft of 0.010-slotted screen installed 7 to 8 ft below the water table. A No. 00 Moiré or equivalent filter sand was placed in the borehole to within 2 feet above the top of the screen. A 1-foot hydrated bentonite seal was placed on top of the filter sand and the remainder of the borehole was backfilled to grade.

AMC and EBC field inspectors (under the direct supervision of the Remedial Engineer) inspected and photographed the injection procedures. C Squared Environmental Corporation performed the chemical injections.

Pre-Injection Groundwater Sampling Summary

Prior to chemical oxidant injections, a groundwater sample was collected from each of the three monitoring wells on September 3, 2020. Each of the three groundwater samples (and duplicate) were submitted to Phoenix for laboratory analysis of VOCs. No VOCs were detected above GQS within 20MW10 or 20MW11. VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (700 ppb), 1,3,5-trimethylbenzene (130 ppb), benzene (29 ppb), ethylbenzene (1,110 ppb), isopropylbenzene (67 ppb), naphthalene (250 ppb), n-butylbenzene (8.5 ppb), n-propylbenzene (180 ppb), o-xylene (390 ppb), sec-butylbenzene (7.3 ppb), and toluene (120 ppb). The total VOC concentration for 19MW9 was 4,288 ppb.

Initial Injection Summary

The first chemical oxidant injection event was performed on September 3, 2020, and consisted of the injection of 135 lbs of sodium persulfate (Klozur® CR). The injections were performed in accordance with the methodology outlined in the RAWP into five injection locations located immediately north of 19MW9.

Post Injection Groundwater Sampling Summary

10/6/2020

The first post-injection groundwater sampling event was conducted on October 6, 2020 (approximately 1 month after the September 3, 2020, injection). A groundwater sample was collected from each of the three monitoring wells and submitted to Phoenix for laboratory analysis of VOCs. No VOCs were detected above GQS within 20MW10 or 20MW11. VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (440 ppb), 1,3,5-trimethylbenzene (9.6 ppb), benzene (13 ppb), ethylbenzene (440 ppb), isopropylbenzene (35 ppb), naphthalene (82 ppb), n-butylbenzene (5.5 ppb), n-propylbenzene (91 ppb), o-xylene (13 ppb), sec-butylbenzene (8.3 ppb), and toluene (7.2 ppb). The total VOC concentration for 19MW9 was 1,325 ppb.

12/14/2020

The 2nd post-injection groundwater sampling event was conducted on December 14, 2020 (approximately 3 month after the September 3, 2020, injection). A groundwater sample

was collected from each of the three monitoring wells and submitted to Phoenix for laboratory analysis of VOCs. No VOCs were detected above GQS within 20MW10 or 20MW11. VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (240 ppb), benzene (6.9 ppb), ethylbenzene (240 ppb), isopropylbenzene (21 ppb), naphthalene (12 ppb), and n-propylbenzene (56 ppb). The total VOC concentration for 19MW9 was 615.7 ppb. The DEC requested a follow-up groundwater sampling event in mid-March 2021 (approximately 3 months after the last groundwater sampling event on December 14, 2020).

Replacement Monitoring Well Installation Details

Due to ongoing remedial activities, each of the three monitoring wells (19MW9, 20MW10 and 20MW11) were destroyed/lost. The monitoring wells were re-installed on April 23, 2021. The replacement monitoring wells consist of 2-inch PVC with 10 ft of 0.010-slotted screen installed 7 to 8 ft below the water table. A No. 00 Morie or equivalent filter sand was placed in the borehole to within 2 feet above the top of the screen. A 1-foot hydrated bentonite seal was placed on top of the filter sand and the remainder of the borehole was backfilled to grade.

Post Injection Groundwater Sampling Summary

4/26/2021

The first groundwater sampling event performed after the three monitoring wells were replaced was conducted on April 26, 2021. A groundwater sample was collected from each of the three monitoring wells and submitted to Phoenix for laboratory analysis of VOCs. No VOCs were detected above GQS within 20MW11. VOCs detected above GQS with 20MW10 included isopropylbenzene (24 ppb), n-butylbenzene (7.2 ppb), n-propylbenzene (110 ppb), and sec-butylbenzene (19 ppb). The total VOC concentration for 20MW10 was 205 ppb.

VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (590 ppb), 1,3,5-trimethylbenzene (130 ppb), 2-isopropyltoluene (6.8 ppb), benzene (150 ppb), ethylbenzene (320 ppb), isopropylbenzene (160 ppb), naphthalene (230 ppb), n-butylbenzene (30 ppb), n-propylbenzene (440 ppb), o-xylene (32 ppb), p-isopropyltoluene

(5.7 ppb), and sec-butylbenzene (28 ppb). The total VOC concentration for 19MW9 was 2,453 ppb.

5/5/2021

The 2nd groundwater sampling event performed after the three monitoring wells were replaced was conducted on May 5, 2021. A groundwater sample was collected from each of the three monitoring wells and submitted to Phoenix for laboratory analysis of VOCs. No VOCs were detected above GQS within 20MW11. VOCs detected above GQS with 20MW10 included 1,2,4-trimethylbenzene (67 ppb), 2-isopropyltoluene (7.7 ppb), benzene (1.4 ppb), ethylbenzene (5.7 ppb), isopropylbenzene (68 ppb), n-butylbenzene (25 ppb), n-propylbenzene (330 ppb), p-isopropyltoluene (11 ppb), and sec-butylbenzene (54 ppb). The total VOC concentration for 20MW10 was 570 ppb.

VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (590 ppb), 1,3,5-trimethylbenzene (160 ppb), 2-isopropyltoluene (7.9 ppb), benzene (110 ppb), ethylbenzene (390 ppb), isopropylbenzene (230 ppb), naphthalene (210 ppb), n-butylbenzene (60 ppb), n-propylbenzene (590 ppb), o-xylene (39 ppb), p-isopropyltoluene (10 ppb), and sec-butylbenzene (44 ppb). The total VOC concentration for 19MW9 was 2,671 ppb.

Based on the results, the DEC requested an additional round of chemical oxidant injections to achieve the groundwater remedial objective.

Second Injection Summary

The second chemical oxidant injection event was performed on June 2, 2021, and consisted of the injection of 225 lbs of sodium persulfate (Klozur® CR). The injections were performed in accordance with the methodology outlined in the RAWP into five injection locations located immediately north of 19MW9.

Replacement Monitoring Well Installation Details

Due to ongoing remedial activities, each of the three monitoring wells (19MW9, 20MW10 and 20MW11) were destroyed/lost a second time. The monitoring wells were re-installed on July 23, 2021, through 6 inch diameter sleeves installed through the new building's

concrete mat slab. The replacement monitoring wells consist of 2-inch PVC with 10 ft of 0.010-slotted screen installed 7 to 8 ft below the water table. A No. 00 Morie or equivalent filter sand was placed in the borehole to within 2 feet above the top of the screen. A 1-foot hydrated bentonite seal was placed on top of the filter sand and the remainder of the borehole was backfilled to grade.

Post Injection Groundwater Sampling Summary

7/30/2021

The first groundwater sampling event performed after the three monitoring wells were replaced a second time, and after the 2nd chemical oxidant injection event performed on June 2, 2021, was conducted on July 30, 2021. A groundwater sample was collected from each of the three monitoring wells and submitted to Phoenix for laboratory analysis of VOCs. VOCs detected above GQS with 20MW10 included 1,2,4-trimethylbenzene (6.5 ppb), isopropylbenzene (17 ppb), n-butylbenzene (9.2 ppb), n-propylbenzene (76 ppb), and sec-butylbenzene (26 ppb). The total VOC concentration for 20MW10 was 168 ppb.

VOCs detected above GQS with 20MW11 included 1,2,4-trimethylbenzene (160 ppb), 1,3,5-trimethylbenzene (37 ppb), ethylbenzene (75 ppb), isopropylbenzene (7.5 ppb), naphthalene (32 ppb), n-propylbenzene (21 ppb), o-xylene (52 ppb). The total VOC concentration for 19MW9 was 590 ppb.

VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (58 ppb), isopropylbenzene (14 ppb), n-propylbenzene (37 ppb), and sec-butylbenzene (9.5 ppb). The total VOC concentration for 19MW9 was 226 ppb.

8/26/2021

The second groundwater sampling event performed after the three monitoring wells were replaced a second time, and after the 2nd chemical oxidant injection event performed on June 2, 2021, was conducted on August 26, 2021. A groundwater sample was collected from each of the three monitoring wells and submitted to Phoenix for laboratory analysis of VOCs. VOCs detected above GQS with 20MW10 included chloroform (20 ppb), and n-propylbenzene (7.4 ppb). The total VOC concentration for 20MW10 was 57 ppb.

VOCs detected above GQS with 20MW11 included 1,2,4-trimethylbenzene (52 ppb), 1,3,5-trimethylbenzene (12 ppb), ethylbenzene (58 ppb), isopropylbenzene (6.8ppb), naphthalene (20 ppb), and n-propylbenzene (19 ppb). The total VOC concentration for 19MW9 was 199 ppb.

VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (41 ppb), chloroform (20 ppb), ethylbenzene (7.5 ppb), isopropylbenzene (9.2 ppb), n-propylbenzene (37 ppb), and sec-butylbenzene (6 ppb). The total VOC concentration for 19MW9 was 179 ppb.

9/22/2021

The third groundwater sampling event performed after the three monitoring wells were replaced a second time, and after the 2nd chemical oxidant injection event performed on September 22, 2021, was conducted on August 26, 2021. A groundwater sample was collected from each of the three monitoring wells and submitted to Phoenix for laboratory analysis of VOCs. VOCs detected above GQS with 20MW10 included isopropylbenzene (16 ppb), n-propylbenzene (49 ppb), and sec-butylbenzene (14 ppb). The total VOC concentration for 20MW10 was 93.4 ppb.

VOCs detected above GQS with 20MW11 was limited to ethylbenzene (9 ppb). The total VOC concentration for 19MW9 was 26 ppb.

VOCs detected above GQS within 19MW9 included 1,2,4-trimethylbenzene (6.9 ppb), isopropylbenzene (5.5 ppb), and n-propylbenzene (16 ppb). The total VOC concentration for 19MW9 was 48.4 ppb.

3.0 MONITORING PLAN

3.1 Treatment System Monitoring and Sampling

3.1.1 Monitoring Well Inspection

Monitoring of the ISCO treatment will be performed on a quarterly basis, as identified in Table 3 ISCO Monitoring Requirements and Schedule (see below). Modification to the frequency or sampling requirements will require approval from the NYSDEC. A visual inspection of the monitoring wells will be conducted during each monitoring event. Unscheduled inspections and/or sampling may take place when an emergency occurs that is deemed likely to affect the operation of the system. Monitoring well components to be monitored include, but are not limited to, the components included in **Table 1**.

Table 1 – Monitoring Requirements and Schedule

ISCO System Component	Monitoring Parameter	Monitoring Schedule
Monitoring Wells	Condition, PID Screen, Depth to water, depth to bottom.	Quarterly

A complete list of components to be inspected is provided in the Inspection Checklist, provided in the SMP as Attachment D - Site Management Forms. If the monitoring wells or injections wells have been damaged, lost, or require redevelopment, maintenance and repair, as per the Operation and Maintenance Plan, is required immediately.

3.1.2 Post-Remediation Media Monitoring and Sampling

Groundwater samples will be collected from monitoring wells 19MW9, 20MW10, and 20MW11 on a routine quarterly basis until a bulk reduction to asymptotic concentrations has been demonstrated. The network of monitoring wells was installed immediately down-gradient of all volatile organic carbon remediation areas for the purpose of evaluation of the effectiveness of the chemical oxidant injections. Sampling locations, required analytical parameters and schedule are provided in **Table 2 – Groundwater Sampling Requirements and Schedule** below. Modification to the frequency or sampling requirements will require approval from the NYSDEC.

Table 2 – Groundwater Sampling Requirements and Schedule

Sampling Location	Analytical Parameters	Schedule
	VOCs (EPA Method 8260C)	
19MW9	X	Quarterly
20MW10	X	Quarterly
20MW11	X	Quarterly
Container	(3) 40mL VOAs preserved with HCL	

The results of the sampling events will be indicated in Periodic Review Reports (PRR). As part of the PRR submittal, a graph showing the change in VOCs concentrations, specifically BTEX compounds, will be attached.

Sampling will be conducted in accordance with NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010, and Sampling Guidelines and Protocols, dated March 1991. Groundwater wells will be gauged with a water level meter to record a depth to groundwater reading (1/100 foot), and if necessary, an interface meter to determine the thickness of LNAPL or DNAPL. Modification to the sampling requirements will require approval from NYSDEC.

All sampling activities will be recorded in a field book and associated sampling log as provided in **Attachment D** - Site Management Forms. Other observations (e.g., groundwater monitoring well integrity, etc.) will be noted on the sampling log. The sampling log will serve as the inspection form for the monitoring network.

Groundwater Sampling Protocol

Groundwater samples will be collected from all wells (19MW9, 20MW1, 20MW2). Sample procurement will be achieved through the use of dedicated polyethylene tubing, a and a peristaltic pump.

All groundwater sampling activities will be recorded in the project dedicated field book. This will include a description of:

- Date and time of sample collection

- Sample location
- Purging time, duration and volume;
- Sample appearance
- Analytical methodology:

Groundwater samples will be collected using a peristaltic pump and dedicated polyethylene tubing in accordance with standard low-flow sampling procedures as follows:

- Record pump make & model on sampling form.
 - Wear appropriate health and safety equipment as outlined in the Health and Safety Plan
 - Inspect each well for any damage or evidence of tampering and note condition in field logbook.
 - Remove the well cap.
 - Lay out plastic sheeting and place the monitoring, purging and sampling equipment on the sheeting.
 - To avoid cross-contamination, do not let any downhole equipment touch the ground.
 - Measure well headspace with a PID or FID and record the reading in the field logbook.
 - A synoptic water level measurement round should be performed (in the shortest possible time) before any purging and sampling activities begin. Measure and record the depth to water using a water level meter or interface probe to the nearest 0.01 ft. Record the measurement in the field logbook. Do not measure the depth to the bottom of the well at this time (to avoid disturbing any sediment that may have accumulated). Obtain depth to bottom information from installation information in the field logbook or soil boring logs.
 - Collect samples in order from wells with lowest contaminant concentration to highest concentration.
 - Connect the polyethylene tubing to the peristaltic pump and lower the tubing into the well to approximately the middle of the screen. Tubing should be a minimum
-

of 2 feet above the bottom of the well as this may cause mobilization of any sediment present in the bottom of the well.

- Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet but remains stable, continue purging until indicator field parameters stabilize.
 - There should be at least 1 foot of water over the end of the tubing so there is no risk of entrapment of air in the sample. Pumping rates should be reduced to the minimum capabilities of the pump, if needed, to avoid purging the well dry. However, if the recharge rate of the well is very low and the well is purged dry, then wait until the well has recharged to a sufficient level and collect the appropriate volume of sample.
 - During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance and pH) every three to five minutes (or less frequently, if appropriate). Sample will not be collected until the turbidity is less than 50 NTUs. Note: during the early phase of purging emphasis should be put on minimizing and stabilizing pumping stress, and recording those adjustments. Purging is considered complete and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings, taken at three (3) to five (5) minute intervals, are within the following limits:
 - specific conductance (3%),
 - temperature (3%),
 - pH (± 0.1 unit)
 - VOC samples should be collected directly into pre-preserved sample containers. Fill all sample containers by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. Fill each container with sample to just overflowing so that no air bubbles are entrapped inside. Cap each bottle as it is filled.
-

- Label the samples, and record them on the chain of custody form. Place immediately into a cooler for shipment and maintain at 4oC.
- Remove the tubing from the well. The polyethylene tubing must either be dedicated to each well or discarded. If dedicated the tubing should be placed in a large plastic garbage bag, sealed, and labeled with the appropriate well identification number.
- Close and lock the well.
- Decontaminate pump either by changing the surgical pump tubing between wells or as follows:
 1. Flush the equipment/pump with potable water.
 2. Flush with non-phosphate detergent solution. If the solution is recycled, the solution must be changed periodically.
 3. Flush with potable or distilled/deionized water to remove all of the detergent solution. If the water is recycled, the water must be changed periodically.
 4. Flush with isopropyl alcohol (pesticide grade). If equipment blank data from the previous sampling event show that the level of contaminants is insignificant, then this step may be skipped.
 5. Flush with distilled/deionized water. The final water rinse must not be recycled.

Samples will be collected in pre-cleaned laboratory supplied glassware, stored in a cooler with ice and submitted to a New York State ELAP certified environmental laboratory. Groundwater samples from monitoring well locations will be submitted for analysis of TCL VOCs by EPA Method 8260.

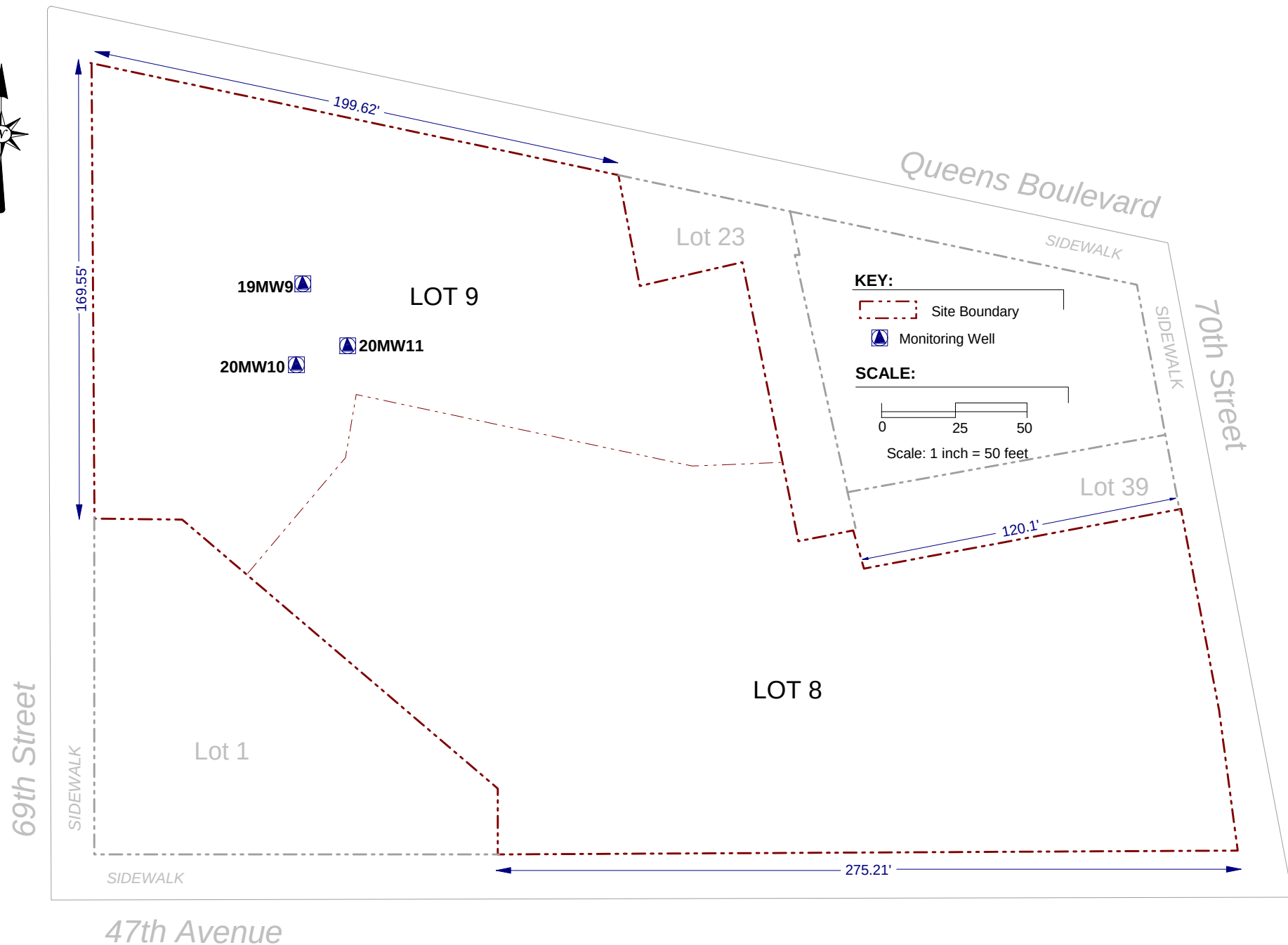
All monitoring wells will be surveyed to determine relative casing elevation to the nearest 0.01 ft and horizontal position to the nearest 0.1ft.

Table 3 – Monitoring Well Construction Details

Monitoring Well ID	Well Location	Well Diameter (inches)	Elevation (above mean sea level)		
			Casing Top	Screen Top	Screen Bottom
19MW9	Cellar of Track 4 Area	2	28.94'	23.9'	13.9'
20MW10	Cellar of Track 4 Area	2	30.05'	25.0'	15.0'
20MW11	Cellar of Track 4 Area	2	28.84	23.8'	13.8'

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced, if an event renders the wells unusable. Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of any monitoring well for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent Periodic Review Report. Well decommissioning without replacement will be done only with the prior approval of the NYSDEC. Well abandonment will be performed in accordance with NYSDEC's guidance entitled "CP-43: Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be replaced in kind in the nearest available location, unless otherwise approved by the NYSDEC. The sampling frequency may only be modified with the approval of the NYSDEC.



AMC Engineering
1836 42nd Street
Astoria, NY 11105

Figure No.
8

9/23/2021

Site Name: **69-02 QUEENS BOULEVARD**

Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

Drawing Title: **GROUNDWATER MONITORING WELL LOCATION DIAGRAM**

APPENDIX A

Inspection Forms

MONITORING WELL INSPECTION/ PURGE / SAMPLE LOGS

Well I.D.: _____

Date:

PID Value from Well: _____

Equipment:

Well Depth (from TOC): _____

Field Personnel:

Static Water Level (from TOC): _____

Height of Water in Well: _____

Gallons of Water per Well Volume: _____

Flow Rate:

[illegible]

APPENDIX B

Sample Chain of Custody



NY/NJ CHAIN OF CUSTODY RECORD

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

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

Temp °C Pg of

Contact Options:

☐ Fax: _____
☐ Phone: _____
☐ Email: _____

Customer: _____
Address: _____

Project: _____
Report to: _____
Invoice to: _____

Project P.O: _____

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ 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

PHOENIX USE ONLY

SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled

Analysis Request

Soil VOA Vials [] 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

Relinquished by:

Accepted by:

Date:

Time:

Turnaround:

NJ

NY

Data Format

- ☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 5 Days
☐ 10 Days
☐ Other

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

- ☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil

- ☐ Phoenix Std Report
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQulS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

Comments, Special Requirements or Regulations:

* SURCHARGE APPLIES

State where samples were collected: _____

Data Package

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

APPENDIX K
QAPP

QUALITY ASSURANCE PROJECT PLAN
69-02 QUEENS BOULEVARD
46-09 69th Street and 46-10 70th Street, Woodside, New York

Prepared on behalf of:

QB Development Owner LLC
520 Madison Avenue, Suite 3501
New York, NY 10012

NOVEMBER 2021

Prepared by:



AMC Engineering PLLC
1836 42nd Street
Astoria, NY 11105
718-545-0474

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1.0 INTRODUCTION

This Quality Assurance Project Plan (QAPP) has been prepared in accordance with DER-10 to detail procedures to be followed during the course of the sampling and analytical portion of the ongoing groundwater monitoring to be performed at 69-02 Queens Boulevard in accordance with the Site Management Plan. The ongoing groundwater monitoring/sampling consists of the following elements:

- Quarterly sampling of each of the three on-Site monitoring wells (19MW9, 20MW10, 20MW11) to assess the effectiveness of the previously performed chemical oxidant injections;

To ensure the successful completion of the project each individual responsible for a given component of the project must be aware of the quality assurance objectives of his / her particular work and of the overall project. The AMC Project Director, Ariel Czemerinski, PE will be directly responsible to the client for the overall project conduct and quality assurance/quality control (QA/QC) for the project. The Project Director will be responsible for overseeing all technical and administrative aspects of the project and for directing QA/QC activities. Ms. Chawinie Reilly of EBC will serve as the Quality Assurance Officer (QAO) and in this role may conduct:

- conduct periodic field and sampling audits;
- interface with the analytical laboratory to resolve problems; and
- interface with the data validator and/or the preparer of the DUSR to resolve problems.

Keith Butler of EBC will serve as the Project Manager and will be responsible for implementation of the Remedial Investigation and coordination with field sampling crews and subcontractors. Reporting directly to the Project Manager will be the Field Operations Officer, Thomas Gallo – EBC ; who will serve as the on-Site qualified environmental professional who will record observations, direct the drilling crew and be responsible for the collection and handling of all samples.

1.1 Organization

Project QA will be maintained under the direction of the Project Manager, in accordance with this QAPP. QC for specific tasks will be the responsibility of the individuals and organizations listed below, under the direction and coordination of the Project Manager.

GENERAL RESPONSIBILITY	SCOPE OF WORK	RESPONSIBILITY OF QUALITY CONTROL
Field Operations	Supervision of Field Crew, sample collection & handling	Thomas Gallo, EBC
Project Manager	Implementation of the Field Sampling Plan	Keith Butler, EBC
Quality Assurance Officer	Interface with laboratory, validator and field crew to identify / resolve data quality issues.	C. Reilly, EBC
Laboratory Analysis	Analysis of groundwater samples for VOCs by NYSDEC ASP methods	Phoenix Environmental Laboratories, Inc.
Data review	Review for completeness and compliance	3 rd party data validation – Koman Government Solutions, LLC – Sherri Pullar



2.0 QUALITY ASSURANCE PROJECT PLAN OBJECTIVES

2.1 Overview

Overall project goals are defined through the development of Data Quality Objectives (DQOs), which are qualitative and quantitative Statements that specify the quality of the data required to support decisions; DQOs, as described in this section, are based on the end uses of the data as described in the work plan.

In this plan, Quality Assurance and Quality Control are defined as follows:

- Quality Assurance - The overall integrated program for assuring reliability of monitoring and measurement data.
- Quality Control - The routine application of procedures for obtaining prescribed standards of performance in the monitoring and measurement process.

2.2 QA / QC Requirements for Analytical Laboratory

Samples will be analyzed by a New York State Department of Health (NYSDOH) certified laboratory that is certified in the appropriate categories. Data generated from the laboratory will be used to evaluate contaminants such as volatile organic compounds (VOCs). The QA requirements for all subcontracted analytical laboratory work performed on this project are described below. QA elements to be evaluated include accuracy, precision, sensitivity, representativeness, and completeness. The data generated by the analytical laboratory for this project are required to be sensitive enough to achieve required quantification limits as specified in NYSDEC Analytical Services Protocol (NYSDEC ASP, 07/2005) and useful for comparison with clean-up objectives. The analytical results meeting the required quantification limits will provide data sensitive enough to meet the data quality objectives of this remedial program as described in the work plan. Reporting of the data must be clear, concise, and comprehensive. The QC elements that are important to this project are completeness of field data, sample custody, sample holding times, sample preservation, sample storage, instrument calibration and blank contamination.

2.2.1 Instrument Calibration

Calibration curves will be developed for each of the compounds to be analyzed. Standard concentrations and a blank will be used to produce the initial curves. The development of calibration curves and initial calibration response factors must be consistent with method requirements presented in the most recent version of NYSDEC ASP 07/2005).

2.2.2 Continuing Instrument Calibration

The initial calibration curve will be verified every 12 hrs by analyzing one calibration standard. The standard concentration will be the midpoint concentration of the initial calibration curve. The calibration check compound must come within 25% relative percent difference (RPD) of the average response factor obtained during initial calibration. If the RPD is greater than 25%, then corrective action must be taken as provided in the specific methodology.



2.2.3 Rinsate Blanks / Trip Blanks

Equipment / materials rinsate blanks are samples which are obtained by running PFAS free water through or over decontaminated sampling equipment or materials including pump tubing, scoops, augers etc. (bailer, pump, auger, etc.). These samples are used to determine if decontamination procedures are adequate. Equipment / materials rinsate banks will be collected for 1,4-dioxane and PFAS soil and groundwater water samples at a minimum frequency of 1 per day per matrix.

Trip blanks consist of a single set of sample containers filled at the laboratory with deionized. laboratory-grade water. The water used will be from the same source as that used for the laboratory method blank. The containers will be carried into the field and handled and transported in the same way as the samples collected that day. Analysis of the trip blank for VOCs is used to identify contamination from the air, shipping containers, or from other items coming in contact with the sample bottles. (The bottles holding the trip blanks will be not opened during this procedure). A complete set of trip blanks will be provided with each shipment of samples to the certified laboratory.

2.2.4 Surrogate Spike Analysis

For organic analyses, all samples and blanks will be spiked with surrogate compounds before purging or extraction in order to monitor preparation and analyses of samples. Surrogate spike recoveries shall fall within the advisory limits in accordance with the NY5DEC ASP protocols for samples falling within the quantification limits without dilution.

2.2.5 Matrix Spike / Matrix Spike Duplicate / Matrix Spike Blank (MS/MSD/MSB) Analysis

MS, MSD and MSB analyses will be performed to evaluate the matrix effect of the sample upon the analytical methodology along with the precision of the instrument by measuring recoveries. The MS / MSD / MSB samples will be analyzed for each group of samples of a similar matrix at a rate of one for every 20 field samples. The RPD will be calculated from the difference between the MS and MSD. Matrix spike blank analysis will be performed to indicate the appropriateness of the spiking solution(s) used for the MS/MSD.

2.2.6 Sampling Procedures Groundwater

Groundwater samples will be collected from 3 existing monitoring wells through the use of a pump with new HDPE tubing placed down the monitoring wells and any tubing connections using new silicone tubing. All pump tubing is to be replaced with new tubing between each monitoring well.

Groundwater samples will be collected in accordance with standard low-flow sampling procedures as follows:

- Record pump make & model on sampling form.
- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan and PFAS sampling procedure documented above.
- Inspect each well for any damage or evidence of tampering and note condition in field logbook.
- Remove the well cap.
- Lay out plastic sheeting and place the monitoring, purging and sampling equipment on the sheeting.
- To avoid cross-contamination, do not let any downhole equipment touch the ground.
- Measure well headspace with a PID or FID and record the reading in the field logbook.



- A synoptic water level measurement round should be performed (in the shortest possible time) before any purging and sampling activities begin. Measure and record the depth to water using a water level meter or interface probe to the nearest 0.01 ft. Record the measurement in the field logbook. Do not measure the depth to the bottom of the well at this time (to avoid disturbing any sediment that may have accumulated). Obtain depth to bottom information from installation information in the field logbook or soil boring logs.
- Collect samples in order from wells with lowest contaminant concentration to highest concentration.
- Connect the HDPE tubing to the pump and lower the pump into the well to approximately the middle of the screen. The pump should be a minimum of 1 feet above the bottom of the well as this may cause mobilization of any sediment present in the bottom of the well.
- Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet but remains stable, continue purging until indicator field parameters stabilize.
- There should be at least 1 foot of water over the end of the tubing / pump so there is no risk of entrapment of air in the sample. Pumping rates should be reduced to the minimum capabilities of the pump, if needed, to avoid purging the well dry. However, if the recharge rate of the well is very low and the well is purged dry, then wait until the well has recharged to a sufficient level and collect the appropriate volume of sample.
- During well purging, monitor indicator field parameters (temperature, specific conductance and pH) every three to five minutes (or less frequently, if appropriate). Note: during the early phase of purging emphasis should be put on minimizing and stabilizing pumping stress, and recording those adjustments. Purging is considered complete and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings, taken at three (3) to five (5) minute intervals, are within the following limits:
 - specific conductance (3%),
 - temperature (3%),
 - pH (± 0.1 unit)
 - If stability is not reached within a reasonable time period purging may be stopped and the sample collected. This should be noted on the sampling log.
- Label the samples, and record them on the chain of custody form. Place immediately into a cooler for shipment and maintain at 4°C.
- Remove the tubing from the well. The HDPE tubing must be discarded.

2.2.7 Equipment Decontamination Procedures

No non-dedicated sampling equipment is to be used. Typical decontamination of non-dedicated sampling equipment would consist of the following:

- Rinse with distilled water.
- Wash withalconox® detergent solution and scrub
- Rinse with distilled water.
- Rinse with distilled water.



2.3 Accuracy

Accuracy is defined as the nearness of a real or the mean (x) of a set of results to the true value. Accuracy is assessed by means of reference samples and percent recoveries. Accuracy includes both precision and recovery and is expressed as percent recovery (% REC). The MS sample is used to determine the percent recovery. The matrix spike percent recovery (% REC) is calculated by the following equation:

$$\%REC = \frac{SSR - SR}{SA} \times 100$$

Where: SSR = spike sample results
SR = sample results
SA = spike added from spiking mix

2.4 Precision

Precision is defined as the measurement of agreement of a set of replicate results among themselves without a Precision is defined as the measurement of agreement of a set of replicate results among themselves without assumption of any prior information as to the true result. Precision is assessed by means of duplicate/replicate sample analyses.

Analytical precision is expressed in terms of RPD. The RPD is calculated using the following formula:

$$RPD = \frac{D^1 - D^2}{(D^1 + D^2)/2} \times 100$$

Where:
RPD = relative percent difference
D¹ = first sample value
D² = second sample value (duplicate)

2.5 Sensitivity

The sensitivity objectives for this plan require that data generated by the analytical laboratory achieve quantification levels low enough to meet the required detection limits specified by NYSDEC ASP and to meet all site-specific standards, criteria and guidance values (SGCs) established for this project.

2.6 Representativeness

Representativeness is a measure of the relationship of an individual sample taken from a particular site to the remainder of that site and the relationship of a small aliquot of the sample (i.e., the one used in the actual analysis) to the sample remaining on site. The representativeness of samples is assured by adherence to sampling procedures described in the Remedial Investigation Work Plan.

2.7 Completeness

Completeness is a measure of the quantity of data obtained from a measurement system as compared to the amount of data expected from the measurement system. Completeness is defined as the percentage of all results that are not affected by failing QC qualifiers, and should be between 70 and 100% of all analyses performed. The objective of completeness in laboratory reporting is to provide a thorough data support package. The laboratory data package provides documentation of sample analysis and

results in the form of summaries, QC data, and raw analytical data. The laboratory will be required to submit **data packages that follow NYSDEC ASP Category B** reporting format which, at a minimum, will include the following components:

1. All sample chain-of-custody forms.
2. The case narrative(s) presenting a discussion of any problems and/or procedural changes required during analyses. Also presented in the case narrative are sample summary forms.
3. Documentation demonstrating the laboratory's ability to attain the contract specified detection limits for all target analytes in all required matrices.
4. Tabulated target compound results and tentatively identified compounds.
5. Surrogate spike analysis results (organics).
6. Matrix spike/matrix spike duplicate/matrix spike blank results.
7. QC check sample and standard recovery results
8. Blank results (field, trip, and method).
9. Internal standard area and RT summary.

2.8 Laboratory Custody Procedures

The following elements are important for maintaining the field custody of samples:

- Sample identification
- Sample labels
- Custody records
- Shipping records
- Packaging procedures

Sample labels will be attached to all sampling bottles before field activities begin; each label will contain an identifying number. Each number will have a suffix that identifies the site and where the sample was taken. Approximate sampling locations will be marked on a map with a description of the sample location. The number, type of sample, and sample identification will be entered into the field logbook. A chain-of-custody form, initiated at the analytical laboratory will accompany the sample bottles from the laboratory into the field. Upon receipt of the bottles and cooler, the sampler will sign and date the first received blank space. After each sample is collected and appropriately identified, entries will be made on the chain-of-custody form that will include:

- Site name and address
- Samplers' names and signatures

2.9 Sample Handling and Decontamination Procedures

Collected samples will be appropriately packaged, placed in coolers and shipped via overnight courier or delivered directly to the analytical laboratory by field personnel. Samples will be containerized in appropriate laboratory provided glassware and shipped in plastic coolers. Samples will be preserved through the use of water ice to maintain a temperature of 4°C.

Dedicated disposable sampling materials will be used for groundwater samples, eliminating the need to prepare field equipment / materials (rinsate) blanks. However equipment / materials rinsate blanks will be prepared for the polyethylene sample tubing at the rate of 1 sample per matrix per day. No field filtering will be conducted; any required filtration will be completed by the laboratory.



No non-dedicated sampling equipment is to be used. Typical decontamination of non-dedicated sampling equipment would consist of the following:

- Rinse with distilled water.
- Wash withalconox® detergent solution and scrub
- Rinse with distilled water.
- Rinse with distilled water.

Prepare equipment / material rinsate blanks by pouring distilled or deionized water over decontaminated equipment through sample tubing for groundwater and collecting the water in laboratory provided containers. Matrix spike and matrix spike duplicates (MS/MSD) will be collected at the rate of one per 20 samples submitted to the laboratory and duplicate samples will be collected at a rate of one per ten samples submitted to the laboratory.



3.0 ANALYTICAL PROCEDURES

3.1 Laboratory Analysis

Samples will be analyzed by the NYSDOH ELAP laboratory for TCL VOCs in groundwater by USEPA Method 8260C (Table 2). If any modifications or additions to the standard procedures are anticipated and if any nonstandard sample preparation or analytical protocol is to be used, the modifications and the nonstandard protocol will be explicitly defined and documented. Prior approval by AMC's PM will be necessary for any nonstandard analytical or sample preparation protocol used by the laboratory, i.e., dilution of samples or extracts by greater than a factor of five (5).



4.0 DATA REDUCTION, REVIEW, AND REPORTING

4.1 Overview

The process of data reduction, review, and reporting ensures the assessments or a conclusion based on the final data accurately reflects actual site conditions. This plan presents the specific procedures, methods, and format that will be employed for data reduction, review and reporting of each measurement parameter determined in the laboratory and field. Also described in this section is the process by which all data, reports, and work plans are proofed and checked for technical and numerical errors prior to final submission.

4.2 Data Reduction

Standard methods and references will be used as guidelines for data handling, reduction, validation, and reporting. All data for the project will be compiled and summarized with an independent verification at each step in the process to prevent transcription/typographical errors. Any computerized entry of data will also undergo verification review.

Sample analysis will be provided by a New York State certified environmental laboratory. **Laboratory reports are required to include ASP Category B deliverables for use in the preparation of a Data Usability Summary Report (DUSR) (required).** All results will be provided in accordance with the NYSDEC Environmental Information Management System (EIMS) electronic data deliverable (EDD) format. Analytical results shall be presented on standard NYSDEC ASP-B forms or equivalents, and include the dates the samples were received and analyzed, and the actual methodology used.

Laboratory QA/QC information required by the method protocols will be compiled, including the application of data QA/QC qualifiers as appropriate. In addition, laboratory worksheets, laboratory notebooks, chains-of-custody, instrument logs, standards records, calibration records, and maintenance records, as applicable, will be provided in the laboratory data packages to determine the validity of data. Specifics on internal laboratory data reduction protocols are identified in the laboratory's SOPs.

Following receipt of the laboratory analytical results by AMC, the data results will be compiled and presented in an appropriate tabular form. Where appropriate, the impacts of QA/QC qualifiers resulting from laboratory or external validation reviews will be assessed in terms of data usability. A resume for the proposed data validator is included in Attachment 5.

4.3 Laboratory Data Reporting

All sample data packages submitted by the analytical laboratory will be required to be reported in conformance to the NYSDEC ASP (7/2005), Category B data deliverable requirements as applicable to the method utilized. All results will be provided in accordance with the NYSDEC Environmental Information Management System (EIMS) electronic data deliverable (EDD) format. Note that waste characterization samples, if analyzed, will be in results only format and will not be evaluated in the DUSR.



5.0 CORRECTIVE ACTION

Review and implementation of systems and procedures may result in recommendations for corrective action. Any deviations from the specified procedures within approved project plans due to unexpected site-specific conditions shall warrant corrective action. All errors, deficiencies, or other problems shall be brought to the immediate attention of the AMC PM, who in turn shall contact the Quality Assurance/Data Quality Manager or his designee (if applicable).

Procedures have been established to ensure that conditions adverse to data quality are promptly investigated, evaluated and corrected. These procedures for review and implementation of a change are as follows:

- Define the problem.
- Investigate the cause of the problem.
- Develop a corrective action to eliminate the problem, in consultation with the personnel who defined the problem and who will implement the change.
- Complete the required form describing the change and its rationale (see below for form requirements).
- Obtain all required written approvals.
- Implement the corrective action.
- Verify that the change has eliminated the problem.

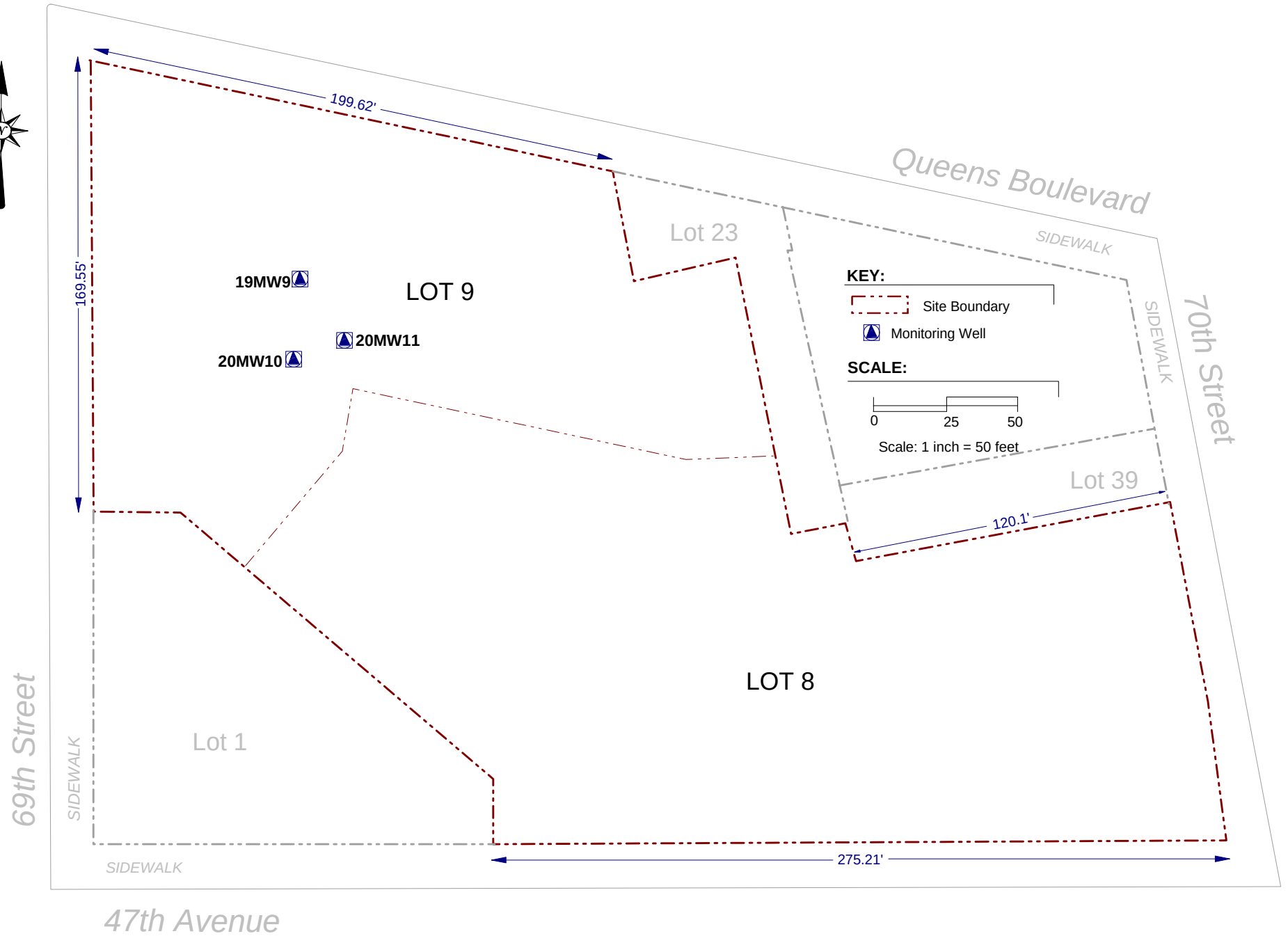
During the field investigation, all changes to the sampling program will be documented in field logs/sheets and the AMC PM advised.

If any problems occur with the laboratory or analyses, the laboratory must immediately notify the PM, who will consult with other project staff. All approved corrective actions shall be controlled and documented.

All corrective action documentation shall include an explanation of the problem and a proposed solution which will be maintained in the project file or associated logs. Each report must be approved by the necessary personnel (e.g., the PM) before implementation of the change occurs. The PM shall be responsible for controlling, tracking, implementing and distributing identified changes.



FIGURES



AMC Engineering
1836 42nd Street
Astoria, NY 11105

Figure No.
1

9/23/2021

Site Name: **69-02 QUEENS BOULEVARD**

Site Address: **46-09 69TH STREET / 46-10 70TH STREET, WOODSIDE, NY**

Drawing Title: **GROUNDWATER MONITORING WELL LOCATION DIAGRAM**

TABLES

**TABLE 1
SUMMARY OF
SAMPLING PROGRAM RATIONALE AND ANALYSIS**

Matrix	Location	Approximate Number of Samples	Rationale for Sampling	Laboratory Analysis
Groundwater	From the 3 monitoring wells (19MW9, 20MW10, 20MW11).	3	To further assess groundwater quality at the Site.	TCL VOCs EPA Method 8260C.
Total (Groundwater)		3		
Groundwater Duplicate	One duplicate groundwater sample per day	1	To meet requirements of QA / QC program	TCL VOCs EPA Method 8260C
Groundwater MS/MSD	Matrix spike and Matrix spike duplicates at the rate 5%	1	To meet requirements of QA / QC program	TCL VOCs EPA Method 8260C
Trip Blanks	One laboratory prepared trip blank to accompany samples each time they are delivered to the laboratory.	1	To meet requirements of QA / QC program	TCL VOCs EPA Method 8260C
Total (QA / QC Samples)		3		

TABLE 2
SAMPLE COLLECTION AND ANALYSIS PROTOCOLS

Sample Type	Matrix	Sampling Device	Parameter	Sample Container	Sample Preservation	Analytical Method#	CRQL / MDLH	Holding Time
Grab	Water	Pump tubing	VOCs	(3) 40 ml vials	Cool to 4° C 1:1 HCL	EPA Method 8260C	Compound specific (1-5 ug/L)	7 Days to extraction and 40 days following extraction; holding time for VOCs is 14 days with preserved HCL.

Notes:

All holding times listed are from Verified Time of Sample Receipt (VTSR) unless noted otherwise. * Holding time listed is from time of sample collection.

The number in parentheses in the "Sample Container" column denotes the number of containers needed.

Triple volume required when collected MS/MSD samples

QAPP **ATTACHMENT 1**



Sherri Pullar

Project Scientist

EDUCATION

B.S., State University of New York, New Paltz, NY

TRAINING / CERTIFICATIONS

EPA Guidance on QAPP/eQAPP

Training in ADR and EDMS

DOD database training

WORK HISTORY

Years with firm: 10 years

Years Experience: 25 years

Sherri specializes in data validation of inorganic, organic, and wet chemistry data including PFAS and 1,4-dioxane (including ADR and EDMS). Sherri has extensive experience preparing, supporting, and developing numerous quality assurance project plans, sampling analysis plans, quality assurance sampling plans, precision, accuracy, reproducibility, completeness, and comparability reports, and standard operating procedures for field sampling, work plans, remedial investigations, feasibility studies, remedial actions, health and safety plans, and reviewing data packages for quality control and acceptability. Sherri has extensive experience with database entry for DOD and NJDEP.

BACKGROUND / EXPERIENCE

Environmental Business Consultants (EBC), Numerous Projects, Ridge, NY
Project Scientist. Worked on numerous sites with EBC to perform EPA Region II, level IV inorganic data validation, including metals and wet chemistry and organic data validation including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, PCSs, 1,4-dioxane, and PFOS in soil, sediment, groundwater, and air samples.

U.S. Navy, LTM, Former Naval Air Warfare Center Trenton, West Trenton NJ
Project Scientist. Performed inorganic data validation, including metals and wet chemistry and organic data validation including VOC and SVOC in groundwater, soil and air samples. Responsible for uploading data into Navy database.

U.S. Navy, LTM, Naval Weapons Industrial Reserve Plant NWIRP, Bedford MA
Project Scientist. Performed inorganic data validation, including metals and wet chemistry and organic data validation including VOC and SVOC in groundwater, soil and air samples. Responsible for uploading data into Navy database.

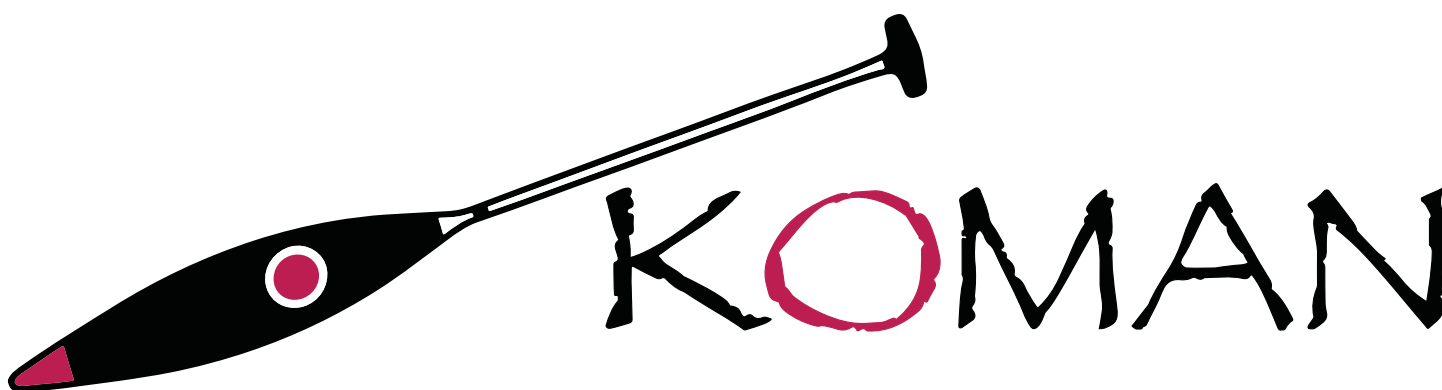
USACE New England District, LTM, Former Fort Devens, MA
Project Scientist. Performed organic data validation, including explosives and perchlorate using automated data validation (ADR) for groundwater and soil.

Northeastern Environmental Technologies (NEET), Numerous Projects, Ballston Spa, NY
Project Scientist. Worked on two sites with NEET to perform EPA Region II, level IV inorganic data validation, including metals and wet chemistry and organic data validation including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), in soil, groundwater, and air samples.

U.S. Navy, LTM, Naval Weapons Industrial Reserve Plant NWIRP, Calverton, NY
Project Scientist. Performed inorganic data validation, including metals and wet chemistry and organic data validation including VOC and SVOC in groundwater and soil samples. Responsible for uploading data into Navy database.

Foot Mineral GMP, LTM, East Whiteland Township, PA. Project Scientist. Performed inorganic data validation, including metals and wet chemistry and organic data validation including VOC in groundwater samples. Responsible for uploading data into Navy database.

USACE New England District, LTM, Former Massachusetts Military Reservation, MA. Project Scientist. Performed organic data validation, including explosives and perchlorate and inorganic data validation, metals and wet chemistry using automated data validation (ADR) for soil and groundwater.



QAPP **ATTACHMENT 2**

**AMC Engineering PLLC**

18-36 42nd Street
Astoria, NY 11105
Phone: (516) 417-8588

ARIEL CZEMERINSKI, P.E.

Email: Ariel@AMC-Engineering.com

SUMMARY:

New York State Professional Engineer. Chemical and Environmental Engineer, with 29 years of experience in the chemical and environmental areas. Areas of expertise include inspections and sign off on Large Scale Vapor Barrier Installations at Various NYC schools, Design and inspections of Sub Slab Depressurization Systems, wastewater treatment systems, Large scale dewatering system design for construction, process control and automation, process optimization, productivity improvement, quality systems, environmental compliance, Phase I Environmental Site Assessments, Phase II Environmental Investigations, Phase III: Remedial Activities, process and plant safety, and management of a production facility. Special Inspector with New York City Department of Buildings. Registered PE in NY.

Professional Experience:

AMC: 18 Years

Prior: 6 years

Education

Master of Science in Chemical Engineering, Columbia University, New York, NY, Feb. 1990.

Bachelor of Science in Chemical Engineering, University Of Buenos Aires, Buenos Aires, Argentina, May 1987

Areas of Expertise

- Vapor Intrusion - Barrier and Sub Slab Venting System Design
- Environmental Assessment Statements under CEQR, ULURP
- Remedial Program Design and Management
- Environmental Compliance, Clean Water Act, Clean Air Act, Hazardous Materials
- Dewatering & Treatment System Design
- SWPPP design and implementation. Preparation and Submittal of NOIs.
- NYCDEP Sewer Discharge Permitting
- Transfer Station Permitting and Compliance
- Wastewater Treatment Systems and Permitting, SPDES, LI Well permit, Water Withdrawal Permit.
- Air Permits and Registration
- Zoning Regulations and Permitting
- Safety and Environmental Training
- Waste Management Plans
- Professional Certifications
- OSHA 40-hr HAZWOPER
- OSHA 10-hr Construction Safety and Health



AMC Engineering PLLC

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Project Experience

Project: Bergen Basin Sewer - CS-JA-BBS -Queens, NY

Project Description: NYC infrastructure (sewer, water) upgrade, drainage channel installation. Dewatering Design. Permits with NYCDEP and NYSDEC. Soil contaminated with petroleum requiring excavation, soil management and disposal under a Materials Handling Plan, Construction Health and Safety Plan. SWPPP design and implementation.

Client: JR Cruz - NYCDDC

Regulatory Authority: NYSDEC, NYCDEP

Role: Mr. Czemerinski served as the Environmental Consultant for the project.

Project: SER002326- Storm and Sanitary Sewers in Wardwell Avenue, Staten Island, New York

Project Description: NYC infrastructure (sewer, water) upgrade.

Dewatering Design. Permits with NYCDEP and NYSDEC. SWPPP design and implementation.

Client: E.E. Cruz - NYCDDC

Regulatory Authority: NYSDEC, NYCDEP

Role: Mr. Czemerinski served as the Environmental Consultant for the project.

Project: HED568-Installation of New 20" Subaqueous water main extension, and new 12" sub-aqueous high pressure gas main from the Bronx to Randall's Island, New York

Project Description: NYC infrastructure (gas, water) upgrade.

Soil contaminated with petroleum requiring excavation, soil management and disposal under a Materials Handling Plan, Construction Health and Safety Plan. Dewatering Design. Permits with NYCDEP and NYSDEC.

Client: E.E. Cruz - NYCDDC

Regulatory Authority: NYSDEC, NYCDEP

Role: Mr. Czemerinski served as the Environmental Consultant for the project.

Project: Domsey Fiber Corp. - 431 Kent Avenue, Brooklyn NY

Project Description: NYS Brownfield cleanup project / NYC E-Designation. Soil contaminated with chlorinated solvents, petroleum and heavy metals requiring excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: Express Builders

Regulatory Authority: NYSDEC, NYCOER

Role: Mr. Czemerinski served as the Remedial Engineer for the project.

Project: SE-807 –Construction of Storm and Sanitary Sewers and Water Main in 20th Ave between 126th St and US Bulkhead Line Area, College Point, Queens, NY

Project Description: NYC Residential infrastructure (sewer, water) upgrade, outfall reconstruction, Soil characterization, soil management and disposal under a Materials Handling Plan, Construction Health and Safety Plan and Community Air Monitoring Plan. SWPPP design and implementation, Public Participation Plan, Marine HASP, Dewatering Design and permit application.



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Client: EIC Associates

Regulatory Authority: NYCDDC

Role: Mr. Czemerinski served as the Environmental Consultant for the project.

Project: Springfield Gardens Residential Area BMP - Springfield Gardens, Queens, NY

Project Description: NYC Residential infrastructure (sewer, gas, water) upgrade, drainage channel installation and pond restoration. Soil contaminated with, petroleum and heavy metals requiring excavation, soil management and disposal under a Materials Handling Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: EIC Associates - NYCEDC

Regulatory Authority: NYSDEC, NYCParks

Role: Mr. Czemerinski served as the Environmental Consultant for the project.

Project: Former Domino Sugar Site - Kent Avenue, Brooklyn NY

Project Description: NYC E-Designation. Soil contaminated with semi-volatile organic compounds and heavy metals requiring excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: Two Trees Management

Regulatory Authority: NYCOER

Role: Mr. Czemerinski served as the Remedial Engineer for the project.

Project: Former Uniforms For Industry Site - Jamaica Avenue, Queens NY

Project Description: NYS Brownfield cleanup project / NYC E-Designation. Soil contaminated with chlorinated solvents, petroleum, mop oil and heavy metals requiring excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: The Arker Companies

Regulatory Authority: NYSDEC, NYCOER

Role: Mr. Czemerinski served as the Remedial Engineer for the project

Project: Former Sunbelt Equipment Site – 25 Kent Avenue, Brooklyn, NY

Project Description: NYS Brownfield cleanup project. Soil contaminated with petroleum, and heavy metals and coal tar, requiring deep excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan, Dewatering Design and implementation, SWPPP design and implementation

Client: 19 Kent Acquisition LLC

Regulatory Authority: NYSDEC

Role: Mr. Czemerinski served as the Remedial Engineer for the project.



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Project Experience

Project: Former Charles Pfizer & Co. Site - 407 Marcy Avenue, Brooklyn, NY

Project Description: NYS Brownfield cleanup project / NYC E-Designation. Soil contaminated with chlorinated solvents, petroleum, and heavy metals requiring excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: The Rabsky Group

Regulatory Authority: NYSDEC, NYCOER

Role: Mr. Czemerinski served as the Remedial Engineer for the project.

Project: Former East Coast Industrial Uniforms Site - 39 Skillman Street, Brooklyn, NY

Project Description: NYS Brownfield cleanup project / NYC E-Designation. Soil contaminated with chlorinated solvents, petroleum, and heavy metals requiring excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: Riverside Builders

Regulatory Authority: NYSDEC, NYCOER

Role: Mr. Czemerinski served as the Remedial Engineer for the project.

Project: Former BP Amoco Service Station Site - 1800 Southern Boulevard, Bronx, NY

Project Description: NYS Brownfield cleanup project / NYC E-Designation. Soil contaminated with petroleum, and heavy metals requiring excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: SoBro, Joy Construction

Regulatory Authority: NYSDEC, NYCOER

Role: Mr. Czemerinski served as the Remedial Engineer for the project.

Project: Former Dico G Auto & Truck Repair Site - 3035 White Plains Road, Bronx, NY

Project Description: NYS Brownfield cleanup project. Soil contaminated with petroleum, and heavy metals requiring excavation, soil management and disposal under a Remedial Action Work Plan, Soil / Materials Management Plan, Construction Health and Safety Plan and Community Air Monitoring Plan

Client: The Arker Companies

Regulatory Authority: NYSDEC

Role: Mr. Czemerinski served as the Remedial Engineer for the project.



ENVIRONMENTAL BUSINESS CONSULTANTS

Chawinie Reilly, Project Manager / Industrial Hygienist

Professional Experience

EBC: March 2013

Prior: 8 years

Education

Bachelor of Science, Health Sciences, Concentration in Environmental Health and Safety, Stony Brook University, NY

Areas of Expertise

- Remedial Investigation Work Plans, Remedial Investigation Reports, Remedial Action Work Plans
- Phase I / Property Condition Assessments
- Occupational Health and Safety Sampling
- Indoor Air Quality (IAQ) Investigations
- Mold Investigations and Remediation
- Soil and Ground Water Investigations
- Noise Studies
- Lead Paint and Asbestos Surveys
- Hazardous Materials Assessments

Professional Certification

- OSHA 40-hr HAZWOPER
- NYS Asbestos Inspector
- NYC Asbestos Investigator
- USEPA Lead Inspector
- USEPA Lead Risk Assessor
- OSHA 10-hr Construction Health and Safety
- Hazard Analysis and Critical Control Point (HACCP) Certified

PROFILE

Mrs. Reilly has 13 year's experience as an environmental consultant/contractor and has worked on and managed a wide range of environmental projects. Major responsibilities include Remedial Investigation Work Plans, Remedial Investigation Reports, Remedial Action Work Plan and Noise Remedial Action Work Plans. Mrs. Reilly has conducted Phase Is and Property Condition Assessments for commercial, industrial, and residential properties in New York, New Jersey and Connecticut. In addition, Mrs. Reilly has conducted various IAQ, asbestos, mold and occupational health and safety sampling investigations for a variety of city, state, federal and private clients.

PREVIOUS EXPERIENCE

The Louis Berger Group, New York, New York-Industrial Hygienist, 2008-2013

AEI Consultants, Jersey City, New Jersey- Environmental Scientist, 2005-2008



ENVIRONMENTAL BUSINESS CONSULTANTS

Keith W. Butler, Senior Project Manager

PROFILE

Mr. Butler has extensive project management experience with respect to environmental due diligence and subsurface investigations. He is responsible for the preparation of project proposals, Phase I and II Environmental Site Assessments, Work Plans, Health and Safety Plans, Quality Assurance Project Plans, and investigation reports. Additionally, Mr. Butler has conducted and managed numerous Phase I and II ESAs. In these roles, Mr. Butler is responsible for applying the various state and local regulations, which govern environmental compliance and determine the need for additional investigation and/or remediation.

SELECTED PROJECTS

Madison National Bank, Various Sites, New York

Mr. Butler served as the Project Manager and principal contact for Madison National Bank. He was responsible for the preparation of Transaction Screen and Phase I/II Environmental Site Assessments (ESAs) at various sites throughout the New York metropolitan area, as required by the bank to satisfy client mortgage or construction loan requests.

Jewish Home & Hospital, Manhattan, NY

Most recently, Mr. Butler completed a Phase I ESA at their Bronx campus to obtain US. Housing and Urban Development (HUD) funding for a future construction project. Mr. Butler was also responsible for implementing a Remedial Action Work (RAW) Plan at the Bronx facility as required by the NYSDEC under a Voluntary Cleanup Agreement. The RAW included the preparation of contract documents, excavation of over 2,000 tons petroleum contaminated soils, installation of a Soil Vapor Extraction (SVE) system remedial oversight, and sampling.

Pulte Homes of New York, Patchogue, NY

Mr. Butler served as the Project Manager for the re-development of this six-acre site and was responsible for field oversight and coordination between remediation contractors and various regulatory agencies. Initial phases of the project included the completion of Phase I and II ESAs. Subsequent remediation consisted of UST removal, excavation of petroleum-impacted soils, closure of three NYSDEC spill numbers, removal of contaminated UIC sediment/sludge, the closure of commercial and residential UIC structures and the excavation of arsenic and metals contaminated soil. The project was conducted under approved Remedial Work and Soil Management Plans with oversight from the State, County and Village agencies.

Town of Islip, Blydenburgh Road Landfill, Hauppauge, NY

Mr. Butler served as the Project Manager for the groundwater and leachate monitoring program at the Blydenburgh Road Landfill - Cleanfills 1 and 2 and Leachate Impoundment Area. Mr. Butler was the principal contact for the Town's Resource Recovery Agency. He prepared the quarterly and annual monitoring reports, oversaw sampling efforts, and coordinated with the Town's analytical laboratory and data validation contractors. Mr. Butler was also responsible for preparing quarterly well condition reports and leachate quality reports for compliance with the Town's Suffolk County Discharge Certification Permit.

Ogden Aviation, Various Sites, JFK International Airport, Jamaica, New York

Mr. Butler served as the project manager for the rehabilitation of the satellite fuel farm recovery well system. Recovery wells at the fuel farm had become clogged with iron deposits and bacteria limiting product recovery efforts. Mr. Butler developed and supervised chemical cleaning and redevelopment of recovery wells under the approval of the NYSDEC. The chemical treatment has resulted in significant increases in product recovery volumes.

Brookhaven National Laboratory, Upton, NY

Mr. Butler has worked on a number of remediation system and monitoring well installation projects at BNL. His duties included oversight of installations, system pump tests, performance evaluations, and well development. He also provided oversight of soil borings, temporary well construction, soil and water sampling, and air monitoring for groundwater screening survey of two operable units in hazardous and radioactive waste storage areas. Mr. Butler also provided oversight for groundwater monitoring, well construction, well abandonment, and methane-monitoring wells for landfill closure.

metroPCS, Various Sites, New York

Mr. Butler served as the Project Manager for metroPCS' Long Island region telecommunications site acquisition and expansion program. Mr. Butler was responsible for the preparation of Phase I ESAs, the conduct of Phase II ESAs, including asbestos, lead paint and soil sampling, and coordination of National Environmental Policy Act (NEPA) reports and planning studies at various locations proposed for construction of new cellular telephone facilities. Reports and associated communications were transmitted electronically through metroPCS' data management system.

Dormitory Authority - State of New York, Harlem Hospital Center Modernization Project - Hazardous and Universal Waste Survey, Harlem Hospital, New York, NY

Mr. Butler served as the field team leader for conducting hazardous and universal waste surveys in multiple buildings affiliated with Harlem Hospital Center. The survey included the identification of hazardous and universal waste materials including chemicals, paints, fluorescent bulbs, high intensity discharge bulbs/fixtures, battery operated equipment, above and underground petroleum storage tank identification, PCB containing light ballasts and electrical equipment.



ENVIRONMENTAL BUSINESS CONSULTANTS

Keith W. Butler, Senior Project Manager

The hospital is comprised of a number of buildings, many that were abandoned and slated for demolition.

SVE Monitoring at Newark International Airport, Elizabeth, NJ

A routine leak detection test indicated that two 10,000-gallon underground storage tanks, which were used to store unleaded gasoline, had failed tightness tests. Follow-up investigation revealed that the product had impacted the subsurface environment. In response to this, a soil vapor extraction system was installed to reduce the residual concentrations of petroleum constituents in soil and groundwater and to minimize vapor migration into subsurface utility vaults. Mr. Butler was responsible for implementing the Remedial Action Work Plan, developed for the site by Ogden and the State of New Jersey. Activities conducted under the RAW include quarterly groundwater monitoring, air sampling, vacuum pressure monitoring, system maintenance and reporting.

Federal Express Site, Newark International Airport, Elizabeth, NJ

Mr. Butler worked with Ogden Aviation and the State of New Jersey to address outstanding environmental issues at the site related to a spill of jet fuel, which occurred during a construction accident. Mr. Butler performed a site assessment, which included groundwater monitoring, product gauging, and groundwater flow modeling. After reviewing these data, Mr. Butler determined that fill material at the site was contributing to soil and groundwater contamination and has petitioned the State for partial site closure. Mr. Butler is continuing to address the remaining area of concern through product recovery and continued monitoring.

Northrop Grumman, Various Sites

Mr. Butler conducted three Phase I ESAs and a Phase II investigation for the presence of PCBs in soil. He also inspected and supervised the removal of underground storage tanks, asbestos abatement projects, and sanitary system closures related to the facility decommissioning. Mr. Butler also conducted groundwater investigations and provided oversight during soil sampling, drilling and soil remediation activities.

New York City Department of Environmental Protection, Various Sites

Mr. Butler served as an Environmental Scientist for hazard investigation at seven sewage pump stations. Mr. Butler addressed a wide range of environmental concerns including asbestos, lead based paints, PCB oil, light ballasts, and other hazardous building materials. He conducted field investigations, sampling, and prepared Hazardous Materials Survey Reports for use during preparation of plans and specifications for proposed pump station construction projects.

Fresh Kills Landfill, Staten Island, New York

Mr. Butler participated in the field operations during pump and yield tests conducted on Cells 1 and 9. The tests were performed to determine the hydraulic properties of the landfill's refuse. He collected groundwater and leachate measurements in recovery wells and in adjacent observation wells under pumping and non-pumping conditions.

PREVIOUS EXPERIENCE

DECA Real Estate Advisors

Director of Environmental Services, 2011-2017

VHB Engineering, Surveying and Landscape Architecture PC, Hauppauge NY

Senior Project Manager, 2005-2011

Parsons Brinkerhoff, Inc. New York NY

Senior Project Manager, 2004-2005

P.W. Grosser Consulting, Bohemia, NY

Senior Project Manager, 1998-2004

Eder Associates, Locust Valley, NY

Field Hydrogeologist, 1992-1998

EDUCATION

BS, Geology, Slippery Rock University of Pennsylvania, 1990

PROFESSIONAL REGISTRATIONS/CERTIFICATIONS

OSHA Certification, 40-hour Health & Safety Training at Hazardous Waste Sites

OSHA Confined Space Entry Training

OSHA Certification, 8-hour Refresher Health & Safety Training at Hazardous Waste Sites