

**SITE CHARACTERIZATION REPORT
90-02 QUEENS BOULEVARD
QUEENS, NEW YORK
NYSDEC SITE NO. 241249**

by
H & A of New York Engineering and Geology, LLP
New York, New York

for
9002 Commercial Unit LLC
Brooklyn, New York

File No. 0208933
July 2024

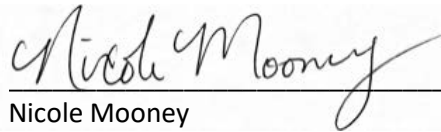


SIGNATURE PAGE FOR

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PREPARED FOR
9002 COMMERCIAL UNIT LLC

PREPARED BY:

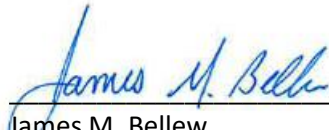


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15 July 2024
File No. 0208933

New York State Department of Environmental Conservation
Division of Environmental Remediation
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Attention: Mr. Marlen Salazar

Subject: Site Characterization Report
90-02 Queens Boulevard
NYSDEC Site No. 241249
Queens, New York 10034

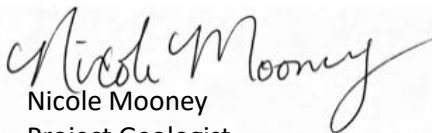
Dear Mr. Salazar,

On behalf of 9002 Commercial Unit LLC, H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York) is submitting for the review and approval of the New York State Department of Environmental Conservation (NYSDEC) this Site Characterization Report (SCR) for the 90-02 Queens Boulevard Site (NYSDEC Site No. 241249), located at 90-02 Queens Boulevard in the Elmhurst neighborhood of Queens, New York (Site). This SCR was developed in accordance with the NYSDEC "Technical Guidance for Site Investigation and Remediation" (Division of Environmental Remediation [DER]-10, dated May 2010) and other relevant NYSDEC technical and administrative guidance.

Please do not hesitate to contact us if there are any questions regarding this submittal or any other aspects of the project.

Sincerely yours,

H & A OF NEW YORK ENGINEERING AND GEOLOGY, LLP



Nicole Mooney
Project Geologist



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Senior Project Manager



James M. Bellew
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Cc:

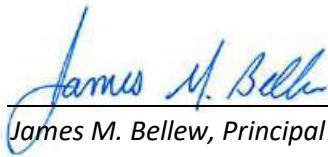
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Certification

This report documents site characterization activities conducted at the 90-02 Queens Boulevard Site, in Queens, New York.

I, James M. Bellew, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Site Characterization Report was prepared in accordance with all statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



James M. Bellew, Principal

15 July 2024

Date

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List of Acronyms and Abbreviations

A

Alpha	Alpha Analytical Laboratories, Inc.
AMSL	Above Mean Sea Level
AOCs	Areas of Concern
ASP	Analytical Services Protocol
AWQS	6NYCRR Part 703.5 NYSDEC Technical and operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS)

B

bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, total xylenes
btoc	Below top of casing

C

CHASP	Construction Health and Safety Plan
City	New York City
COCs	Contaminants of Concern
CP-51	Commissioners Policy-51 (<i>specifically "October 2010 NYSDEC Commissioners Policy 51"</i>)
CSM	Conceptual Site Model
CVOCs	Chlorinated volatile organic compounds

D

DER-10	Division of Environmental Remediation-10 (<i>specifically "May 2010 NYSDEC Technical Guidance for Site Investigation and Remediation"</i>)
DPK	DPK Consulting
DUSR	Data Usability Summary Report

E

EDD	Electronic Data Deliverable
EFR	Enhanced Fluid Recovery
El.	Elevation
ELAP	Environmental Laboratory Approval Program
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
ESI	Environmental Site Investigation
Eurofins	Eurofins Environment Testing Northeast, LLC

F

ft	feet/foot
FSP	Field sampling plan

List of Acronyms and Abbreviations (continued)

G

GPR	Ground Penetrating Radar
GVs	Guidance Values

H

Haley & Aldrich of New York	H & A of New York Engineering and Geology, LLP
HASP	Health & Safety Plan
HAZWOPER	Health Administration Hazardous Waste Operations and Emergency Response
HREC	Historical Recognized Environmental Condition
Hydro Tech	Hydro Tech Environmental, Corp.

I

in.	inch
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L

Lakewood	Lakewood Environmental Services, Corp.
L/min	Liters per minute
LNAPL	light non-aqueous phase liquid

M

MS	Matrix Spike
MSD	Matrix Spike Duplicate
MDL	Method Detection Limit

N

NAVD88	North American Vertical Datum of 1988
ND	Non-Detect
NNO	Notice of No Objection
Nova	Nova Geophysical Engineering
NPV	Nelson Pope Voorhis
NTP	Notice to Proceed
NTU	Nephelometric turbidity units
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation

O

OSHA	Occupational Safety and Health Administration
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List of Acronyms and Abbreviations (continued)

P

PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethene
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
PGWSCO	Protection of Groundwater Soil Cleanup Objective
PID	Photoionization Detector
ppb	Parts Per Billion
PPE	Personal protective equipment
ppm	Parts Per Million
ppt	Parts Per Trillion
PQL	Practical quantitation limit
PVC	Polyvinyl Chloride

Q

QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan

R

RA	Remedial Action
RAWP	Remedial Action Work Plan
REC	Recognized Environmental Condition
RRSCO	Restricted-Residential Soil Cleanup Objectives
RWP	Remediation Work Plan

S

SC	Site Characterization
SCO	Soil Cleanup Objective
SCR	Site Characterization Report
SCWP	Site Characterization Work Plan
Site	the property located at 90-02 Queens Boulevard, Queens, New York
sq ft	square feet
SVOC	Semi-Volatile Organic Compound

List of Acronyms and Abbreviations (continued)

T

TAL	Target Analyte List
TCE	Trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
T.O.G.S. 1.1.1	Technical and Operational Guidance Series 1.1.1 (<i>Specifically “June 1998 NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values, Class GA for the protection of a source of drinking water modified per the April 2000 addendum”</i>)

U

µg/m ³	micrograms per cubic meter
UST	Underground Storage Tank
UUSCOs	Unrestricted Use Soil Cleanup Objectives

V

VOCs	Volatile Organic Compounds
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1. Introduction

This Site Characterization Report (SCR) was developed by H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York) on behalf of 9002 Commercial Unit LLC for the 90-02 Queens Boulevard Site, located at 90-02 Queens Boulevard, Queens, New York (the Site).

The Site, identified as Block 2857, Lot 36 on the New York City tax map, is located in the Elmhurst neighborhood of Queens and is comprised of one, approximately 54,500 square foot (sq ft) tax lot. The Site is bound by Queens Boulevard followed by commercial and office buildings to the north; Hoffman Drive followed by a parking facility, a park, and multi-family walk-up residential buildings to the south; a vacant lot to the east; and commercial and office buildings to the west. The project locus is shown on Figure 1, and existing Site features are displayed on the Site Map provided as Figure 2.

The Site is zoned in a residential (R6) zoning district with a C1-2 commercial overlay. The Site is located in an urban area surrounded by commercial, residential, and vacant lot properties served by municipal water.

The activities of this Site Characterization (SC) were completed from 15 May 2024 through 13 June 2024 in conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and the New York State Department of Environmental Conservation (NYSDEC)-approved May 2024 Site Characterization Work Plan (SCWP).

1.1 PURPOSE AND OBJECTIVES

Previous investigations conducted at the Site identified the presence of light non-aqueous phase liquid (LNAPL) and elevated concentrations of volatile organic compounds (VOCs) and chlorinated volatile organic compounds (CVOCs) in groundwater and soil vapor at the Site. More specifically, previous investigations related to Spill Case No. 1504881 revealed LNAPL in several permanent groundwater monitoring wells near a closed-in-place underground storage tank (UST). Additionally, groundwater concentrations of petroleum-related VOCs and CVOCs, including trichloroethene (TCE) and tetrachloroethene (PCE), exceed the New York Technical and Operational Guidance Series (T.O.G.S.) 1.1.1 Class GA Ambient Water Quality Standards (AWQS). Based on a meeting with the NYSDEC on 20 September 2023, due to the elevated VOC concentrations in groundwater at the Site, additional investigation is required in order to understand the extent of contamination on the Site, evaluate potential on-site sources, and identify remedial options. A summary of the soil, groundwater, and soil vapor analytical data collected previously is discussed herein and is also included in the SCWP.

The SC activities described in this report were designed to further delineate the extent of contamination on the Site through additional investigation and sampling. Sample locations are shown on Figure 3. The results in this SCR will be used to confirm the results of the previous Site characterization activities, delineate any on-site source(s), and determine a course for any remedial actions (RAs).

2. Site Background

2.1 SITE LOCATION AND DESCRIPTION

The Site, identified as Block 2857, Lot 36 on the New York City tax map, is located in the Elmhurst neighborhood of Queens and is comprised of one, approximately 54,500 sq ft tax lot. The Site is bound by Queens Boulevard followed by commercial and office buildings to the north; Hoffman Drive followed by a parking facility, a park, and multi-family walk-up residential buildings to the south; a vacant lot to the east; and commercial and office buildings to the west. The project locus is shown on Figure 1, and existing Site features are displayed on the Site Map provided as Figure 2.

The Site is zoned in a residential (R6) zoning district with a C1-2 commercial overlay. The Site is located in an urban area surrounded by commercial, residential, and vacant lot properties served by municipal water.

2.2 GEOLOGY AND HYDROGEOLOGY

According to the Phase I Environmental Site Assessment (ESA) conducted by Hydro Tech Environmental, Corp. (Hydro Tech) dated December 2013, the major landforms of importance to the Site's hydrologic system are the moraines and outwash plains, which originated from glacial activity. The moraines represent the farthest extent of the glacial advances. The moraines consist of till, which is a poorly sorted mixture of sand, silt, clay, gravel, and boulders. The till is poor to moderately permeable in most areas. Outwash plains are located to the south of the moraines. The outwash plains were formed by the action of glacial melt water streams, which eroded the headland material of the moraines and laid down deposits of well-sorted sands, silts, and gravels. These outwash deposits have a moderate to high permeability.

The Site has sloping topography from a high to the east and lower to the west and a topographic elevation of approximately 25 feet (ft) above mean sea level (amsl). The Site is underlain by a layer of fill material consisting of dark brown to black silty clay. Fill extends from the surface to variable depths between 2 and 4 ft below ground surface (bgs). The fill is underlain by a potential native layer consisting of light to dark brown to gray silty clay and fine sand with varying amounts of gravel extending up to the terminus depth of each boring at 12 ft bgs within the basement of the existing building.

Groundwater was encountered at depths ranging from approximately 3.01 to 3.41 ft below top of casing (btoc) within the basement of the existing building and 8.14 to 9.6 ft btoc in monitoring wells located outside of the existing building during this SC event and groundwater flow beneath the Site is generally from the west-southwest to the east-northeast. A groundwater contour map is provided on Figure 4.

2.3 SITE HISTORY

Based on information presented in a Phase I ESA completed by HydroTech in December 2013 and a Phase I ESA completed by Nelson Pope Voorhis (NPV) in January 2023, the Site was developed as early as 1897 with a single building of unidentified use. In 1900, the property was occupied by four dwellings and four accessory structures consisting of sheds and co-ops. Occupation by dwellings continued until 1950, when

the eastern end of the property was developed into Horace Harding Hospital. In the 1970s, one of the dwellings had converted into a store. The hospital has been expanded to the west and is now identified as St. Johns-Queens Hospital. The last remaining dwelling and store were demolished in the 1980s, the area having been converted into a parking lot. At the time the Phase I was completed in 2023, the Site consisted of the first floor (Unit C-1) and semi-basement (Unit C-2) of a larger residential apartment building. Both units were undergoing renovation for retail and/or office use during the site reconnaissance. In addition, the western end of Unit C-1 was occupied by a recreation room, fitness room, and mail room and the western end of Unit C-2 contained locked storage spaces. The portion of the subject property located at 87-28 58th Avenue consists of a parking garage with five above-ground residential levels and one below-ground level.

3. Summary of Previous Investigations

To date, the following investigations have been performed at the Site:

1. Phase I ESA Report dated 27 December 2013, prepared by Hydro Tech.
2. Phase II ESA dated 14 January 2014, prepared by Hydro Tech.
3. Focused Subsurface Investigation dated 5 August 2015, prepared by Hydro Tech.
4. Subsurface Investigation Report dated 15 September 2015, prepared by Hydro Tech.
5. Focused Subsurface Investigation dated 27 March 2017, prepared by Hydro Tech.
6. Documentation of Tank Abandonment and Groundwater Quality dated 17 February 2020, prepared by Hydro Tech.
7. Enhanced Fluid Recovery (EFR) Results – February and March 2020 dated 7 May 2020, prepared by Hydro Tech.
8. Phase I Environmental Site Assessment dated 26 January 2023, prepared by NPV.
9. Limited Phase II Environmental Site Investigation (ESI) Report dated 21 August 2023, prepared by Haley & Aldrich of New York.

Investigation findings are included in Appendix A. A summary of environmental findings of these investigations is provided below.

Phase I ESA Report dated 27 December 2013, prepared by Hydro Tech

A Phase I ESA was completed by Hydro Tech in December 2013 for the purpose of identifying Recognized Environmental Conditions (RECs) in connection with the Site.

The Phase I ESA identified the following RECs in connection with the Site:

- The presence of in place abandoned UST at the Subject Property
- The suspect presence of impact associated with a northwest-adjacent historic gasoline station
- The presence of suspect lead-based paint at the Subject Property
- The presence of mold at the Subject Property

The Phase I ESA did not identify other environmental concerns at the adjoining and surrounding properties that would have potential impacts to the Site condition.

Phase II ESA dated 14 January 2014, prepared by Hydro Tech

In January 2014, a Phase II ESA was completed by Hydro Tech at the Site and consisted of the following:

- Installation of four soil borings and collection of four soil samples analyzed for VOCs and semi-volatile organic compounds (SVOCs).
- Installation of one groundwater probe and collection of one groundwater sample analyzed for VOCs.
- Installation of three permanent groundwater monitoring wells and collection of three groundwater samples analyzed for VOCs and SVOCs.
- Installation of three soil vapor probes and collection of three soil vapor samples analyzed for VOCs.
- Collection of two indoor air samples and one ambient air sample analyzed for VOCs.

The Phase II ESA identified the following:

- Soil analytical results are summarized as follows:
 - No VOCs or SVOCs were detected above the NYSDEC Title 6 New York Code Rules and Regulations (NYCRR) Part 375-6 Unrestricted Use Soil Cleanup Objectives (UUSCOs) in the samples collected.
- Groundwater analytical results are summarized as follows:
 - Chlorinated solvents, including PCE, and its derivative compounds and petroleum-related compounds were detected in two groundwater samples at concentrations exceeding their respective New York T.O.G.S. 1.1.1 Class GA AWQS.
- Soil vapor and indoor air sample results are summarized as follows:
 - Petroleum hydrocarbons were detected in the sub-slab vapor samples collected beneath the western portion of the Site.
 - No VOCs were identified in indoor air at concentrations exceeding New York State Department of Health (NYSDOH) Indoor Air Guidance levels.

Focused Subsurface Investigation dated 5 August 2015 prepared by Hydro Tech

The Focused Subsurface Investigation identified the following:

- The UST in the southeast portion of the Site was not abandoned properly.
- Free product and dissolved VOCs were present near the UST. A spill was called in and assigned Spill No. 1504881.
- Dissolved chlorinated solvents were present in groundwater in the southeast portion of the Site.
- Petroleum and CVOCs were present in the sub-slab vapor beneath the building.
- Recommendations included proper UST closure, removal of free product, and reduction of the groundwater contamination. Additionally, a vapor barrier system and a sub-slab depressurization system were recommended.

Subsurface Investigation Report dated 15 September 2015 prepared by Hydro Tech

In September 2015, a Subsurface Investigation was completed by Hydro Tech at the Site and consisted of the following:

- Delineation of impacted groundwater associated with the UST located to the south of the property and chlorinated solvents in groundwater beneath the eastern and southeastern portion of the Site.
- Installation and sampling of eight soil probes, five of which were converted to permanent monitoring wells, and the sampling of eight monitoring wells.

The Subsurface Investigation identified the following:

- The soil to the north of the UST exhibited olfactory evidence of petroleum odors and low concentrations of organic vapors ranging between 3 and 61 parts per million (ppm). Additionally, visual evidence of impact (e.g. staining) was observed in the deepest soil samples.
- No CVOCs were identified in soil in the eastern portion of the Site.

Free product was observed in MW-3 (north of the UST).

- CVOCs in groundwater in the northern portion of the Site and petroleum-related VOCs in groundwater on the eastern portion of the Site exceed the AWQS.

Focused Subsurface Investigation dated 27 March 2017 prepared by Hydro Tech

Following a Remediation Work Plan (RWP) approval from NYSDEC in October 2015, a Focused Subsurface Investigation was completed by Hydro Tech at the Site in March 2017 and consisted of the following:

- Collection of 12 groundwater samples, installation and collection of three sub-slab vapor probes and samples, and collection of one indoor air sample and one outdoor air sample to determine the current levels of CVOCs in groundwater and soil vapors.

The Subsurface Investigation reported the following:

- Free product remains in the subsurface north of the UST.
- CVOCs in groundwater exceeded the AWQS in the vicinity of MW-2 in the eastern portion of the Site.
- The NYSDEC-approved RWP to address the Spill No. 1504881 should be implemented.
- The NYSDEC Hazardous Remediation Section should be contacted to inquire if potential remedies for the CVOCs in groundwater are required and if mitigation measures for soil vapor intrusion need to be implemented.

Documentation of Tank Abandonment and Groundwater Quality dated 17 February 2020 prepared by Hydro Tech

In May 2017, Hydro Tech took the following actions:

- A 7,500-gallon #2 fuel oil UST located in the southwest portion of the Site was closed-in-place.
- A total of 25.52 tons of non-hazardous impacted soil and concrete were removed and disposed.
- A total of 1,030 gallons of an oil/water mixture were removed and disposed.
- Two permanent monitoring wells (MW-13 and MW-14) were installed in the area of the closed tank.

Hydro Tech reported the following:

- Free product was observed in MW-3, MW-13, and MW-14. A petroleum sheen was observed in MW-6, MW-8, and MW-9 (north of the closed UST).
- Post-tank closure sidewall end-point samples indicated SVOCs were present to the south of the closed-in place UST at concentrations exceeding the UUSCOs.
- CVOCs remain in groundwater in the southeast portion of the Site in MW-2

EFR Results dated February 2020 and March 2020 prepared by Hydro Tech

In February and March 2020, EFR events were conducted by Hydro Tech, which reported the following:

- A total of 558 gallons of free product and contaminated water were removed from monitoring wells MW-3, MW-8, MW-9, MW-13, and MW-14.
- Free product remaining in MW-3 was thought likely to be an isolated residual impact since none of the surrounding upgradient or downgradient wells exhibited evidence of free product.
- Evidence of petroleum hydrocarbons in the form of sheen or a thin film of product in MW-3, MW-8, MW-13, and MW-14 revealed a relatively minimal impact that Hydro Tech thought would remediate over time via natural biodegradation.

Phase I ESA dated 26 January 2023 prepared by NPV

A Phase I ESA was completed by NPV in January 2023. The Phase I ESA identified the following RECs in connection with the Site:

- Spill no. 1504881, which was under active investigation by the NYSDEC, was considered to be a REC due to the presence of dissolved petroleum and chlorinated solvent contamination in groundwater and soil vapor. The most recent Phase II investigation conducted in 2014 recommended additional investigation, periodic monitoring of groundwater wells for free product, and vapor intrusion mitigation measures such as a sub-slab depressurization system.
- Spill no. 9615014 was considered to be an off-site REC due to the potential for soil vapor impacts to the subject property from former Mobil Station #17, situated at 89-30 Queens Boulevard,

adjacent to the west of the subject property, which had identified petroleum impacts in soil and groundwater. The spill incident was closed by NYSDEC in 2012; however, impacts to the subject property from this incident were noted, and based on the spill incident report it does not appear that off-site vapor impacts were evaluated. Further, according to the Air Discharge database, a remediation system appeared to be actively operating in response to potential uncontrolled emissions from the former release.

The Phase I ESA identified the following additional environmental concerns at the adjoining and surrounding properties that could have potential impacts on the Site:

- Closed LUST incident, which occurred on the subject property and was assigned Spill no. 8801243, was considered a historical recognized environmental condition (HREC) that had been addressed to the satisfaction of the NYSDEC.
- Closed LUST incident, which occurred on the subject property and was assigned Spill no. 0511055, was considered an HREC that had been addressed to the satisfaction of the NYSDEC.
- Closed Spill incident, which occurred on the subject property and was assigned Spill no. 9908947, was considered an HREC that had been addressed to the satisfaction of the NYSDEC.
- Closed Spill incident, that occurred adjacent to the subject property and was assigned Spill no. 0808306, was considered an off-site HREC that had been addressed to the satisfaction of the NYSDEC.
- Closed Spill incident, which occurred adjacent to the subject property and was assigned Spill no. 0509905, was considered an off-site HREC that had been addressed to the satisfaction of the NYSDEC.
- Closed Spill incident, which occurred adjacent to the subject property and was assigned Spill no. 0302793, was considered an off-site HREC that had been addressed to the satisfaction of the NYSDEC.
- Closed LUST incident, which occurred adjacent to the subject property and was assigned Spill no. 9104895, was considered an off-site HREC that had been addressed to the satisfaction of the NYSDEC.
- Closed LUST incident, which occurred adjacent to the subject property and was assigned Spill no. 908424, was considered an off-site HREC that had been addressed to the satisfaction of the NYSDEC.

Limited Phase II ESI Report dated 21 August 2023 prepared by Haley & Aldrich of New York

The Phase II Limited ESI Report identified the following environmental findings:

- Fill material generally consisting of light gray to dark brown sand and clay with varying amounts of silt and gravel was observed from surface grade to approximately 6 ft bgs. The fill layer was underlain by gray to brown sand extending to at least 9 ft bgs, the maximum depth of exploration.
- Groundwater was encountered between 3 and 6 ft below the cellar level.
- Approximately 1 ft of free product was observed in MW-3.

- Soil analytical results were summarized as follows:
 - Acetone was detected above the UUSCO in two soil samples.
 - No other VOCs were detected above the UUSCOs in the samples collected.
- Groundwater analytical results were summarized as follows:
 - Chlorinated solvents, including PCE, its derivative compounds, and petroleum-related compounds, were detected in two groundwater samples at concentrations exceeding the AWQS.
- Soil vapor sample results were summarized as follows:
 - Petroleum-related VOCs and CVOCs, including PCE, were detected in the sub-slab vapor samples collected.

Soil, groundwater, and soil vapor analytical results from the August 2023 Limited Phase II sampling event are summarized in Figures 5, 6, and 8, respectively.

4. Site Characterization Approach

4.1 PROJECT TEAM

A project team for the Site was created based on qualifications and experience with personnel suited for the successful completion of the project.

James Bellew was the Qualified Environmental Professional and Principal-in-Charge for this work. In this role, Mr. Bellew was responsible for the overall completion of each task as per the requirements outlined in the field sampling plan and in accordance with the DER-10 guidance.

Matthew Levy was the Haley & Aldrich of New York Project Manager for this work. In this role, Mr. Levy managed the day-to-day tasks, including coordination and supervision of field engineers and scientists, adherence to the field sampling plan, and oversight of the project schedule.

Nicole Mooney was the field engineer responsible for implementing the field effort for this work. Ms. Mooney's responsibilities included implementing the field sampling plan (FSP) activities and directing the subcontractors to ensure the successful completion of field activities.

The drilling subcontractor utilized for this investigation was Lakewood Environmental Services Corp. (Lakewood). Lakewood provided a track-mounted Geoprobe® direct push drill rig and operator to implement the SC scope of work including, advancement of soil borings, installation of groundwater monitoring wells, and installation of soil vapor probes.

Soil and groundwater samples were collected in laboratory-prepared sample bottles (pre-preserved when appropriate), placed in ice-packed coolers maintained at approximately 4 degrees Celsius under standard chain of custody procedures, and transported to Eurofins Environment Testing Northeast, LLC (Eurofins) of Edison, New Jersey (Certification No. 11452). Soil vapor samples were collected in laboratory-supplied batch certified-clean 6-liter Summa® canisters with eight-hour flow controllers and transported under standard chain of custody to Eurofins and transported to their Burlington, Vermont, location. Eurofins is an NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory (ELAP Nos. 12028 and VT972) and was responsible for analyzing the samples as per the analyses and methods identified in the NYSDEC SCWP approved in May 2024 and described in this SCR. Table 1 provides a summary of all soil samples collected as part of this SC, including sample locations, sample depths, and analyses performed on each sample. Additional details regarding the sampling methods are described in the approved SCWP. All sample locations are shown on Figure 3.

4.2 GROUND PENETRATING RADAR SURVEY

Haley & Aldrich of New York oversaw a Ground Penetrating Radar (GPR) Survey performed at the Site by Nova Geophysical Engineering (Nova) on 15 May 2024. The survey was conducted to identify the presence of any utilities, USTs, or any other anomalies that may be present in the subsurface, in order to identify clear soil boring locations. Accessible areas of the Site were scanned using a 250 MHz cart-mounted GPR system, a high-range precision utility detector, and an electromagnetic pipe and cable locator. Metallic

anomalies/USTs were not detected in accessible areas of the Site. Several utilities were marked on the Site in designated colors. Full results of the GPR Survey are provided in Appendix B.

4.3 SOIL BORING INSTALLATION AND SOIL SAMPLING

Five soil borings were advanced to a depth of 12 ft bgs using a track-mounted direct-push drill rig (Geoprobe®) operated by a licensed operator provided by Lakewood. Soil samples were collected from dedicated acetate liners using a stainless-steel trowel or sampling spoon.

Soils were logged continuously by field personnel using the Modified Burmeister Soil Classification System. The presence of staining, odors, and photoionization detector (PID) response was noted in soil boring logs. Soil boring logs are provided in Appendix C.

Soil samples representative of Site conditions were collected at five locations widely distributed across the Site, as shown on Figure 3. Two samples were collected at each boring, including from the surface to approximately 2 ft bgs and from the 2-ft interval above the groundwater interface or 2 to 3 ft bgs.

Haley & Aldrich of New York collected 10 soil samples (plus quality assurance/quality control [QA/QC] samples) for laboratory analysis. Soil samples were collected in laboratory-supplied containers; VOC grab samples were collected using Terra Core sampling devices. Soil samples were relinquished under standard chain of custody protocol and delivered via courier to Alpha Analytical Laboratories, Inc. (Alpha) for analysis.

Soil samples were analyzed for the following:

- Target Compound List (TCL) VOCs by U.S. Environmental Protection Agency (EPA) Method 8260B;
- TCL SVOCs using EPA Method by 8270C;
- Total Analyte List (TAL) Metals by EPA Method 6010;
- TCL Polychlorinated Biphenyls (PCBs) by EPA Method 8082;
- TCL Pesticides by EPA Method 8081;
- Per- and polyfluoroalkyl substances (PFAS) by EPA Method 1633; and,
- 1,4-dioxane by EPA Method 8270 SIM.

As per NYDSEC DER-10 requirements, all soil samples were analyzed for emerging contaminants. Soil samples were collected for 1,4-dioxane and PFAS in accordance with the protocols established in NYSDEC's April 2023 "Guidance for Sampling, Analysis, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs" (April 2023 PFAS Guidance).

4.4 PERMANENT MONITORING WELL INSTALLATION AND GROUNDWATER SAMPLING

The purpose of the groundwater sampling was to obtain current groundwater data and fill in data gaps of the Site conditions observed during previous investigations.

Three 2-inch (in.) diameter permanent monitoring wells were installed to approximately 11 ft bgs. Each monitoring well was constructed using a 2-in. diameter polyvinyl chloride (PVC) riser pipe with 10-ft-long, 10-slot (0.01-in.) slotted screens. Each monitoring well was constructed within a 2-in. annular space backfilled with #2 certified clean sand fill, followed by a bentonite plug, and sealed at grade with steel flush-mount covers. Monitoring well screens were installed to straddle the water table. During a monitoring well gauging event concurrent with the well survey on 13 June 2024, groundwater was encountered at depths ranging from 3.01 to 3.41 ft btoc within the basement of the existing building and 8.14 to 9.6 ft btoc in monitoring wells located outside of the existing building. Well construction diagrams are provided in Appendix D.

Following installation, monitoring wells were developed by surging a pump in the well several times to pull fine-grained material from the well. Development was completed until the water turbidity was 50 nephelometric turbidity units (NTU) or less or ten well volumes were purged.

Haley & Aldrich of New York collected nine groundwater samples (plus QA/QC samples) for laboratory analysis including the following:

- TCL VOCs by EPA Method 8260B;
- TCL SVOCs by EPA Method 8270C;
- Total and Dissolved Metals by EPA Method 6010/7471;
- PCBs by EPA Method 8082;
- Pesticides by EPA Method 8081;
- PFAS by EPA METHOD 1633; and
- 1,4-dioxane by EPA Method 8260B.

Groundwater samples were collected for 1,4-dioxane and PFAS, in accordance with the protocols established in the April 2023 PFAS Guidance.

Groundwater monitoring wells were sampled utilizing low-flow sampling procedures for groundwater sampling. Prior to sampling, the water level was measured from each monitoring well using an electronic water level meter. Groundwater from each well was purged using low pumping rates (less than 500 milliliters per minute) to limit drawdown of the water level. Dedicated disposable field equipment used at each well included high-density polyethylene and silicon tubing. Wells were purged until turbidity, pH, temperature, dissolved oxygen, and specific conductivity stabilized. If monitoring wells ran dry during low-flow sampling, a minimum of three well volumes were purged prior to the collection of groundwater samples.

Field measurements collected from the flow cell were logged and are included in Appendix E. DPK Consulting (DPK), a New York State-licensed surveyor, completed a monitoring well survey on 13 June 2024. Haley & Aldrich of New York performed a synoptic monitoring well gauging event on 13 June 2024. Groundwater was encountered at depths ranging from 3.01 to 3.41 ft btoc within the basement of the existing building and 8.14 to 9.6 ft btoc in monitoring wells located outside of the existing building; groundwater generally flows from west-southwest to east-northeast. A groundwater contour

map is provided on Figure 4 and a summary of the synoptic monitoring well gauging results is provided in Table 2. A survey map summarizing the data collected by the licensed surveyor is provided as Appendix B.

4.5 SOIL VAPOR PROBE INSTALLATION AND SOIL VAPOR SAMPLING

Soil vapor samples were collected in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH, October 2006, Revised 2017 and 2024). Eight temporary soil vapor probes were installed by Lakewood to approximately 1 ft bgs, or approximately 2 ft above the water table. The temporary vapor implants were installed with a direct-push rig (e.g., Geoprobe®) to advance a stainless-steel probe to the desired sample depth.

To ensure the stainless-steel soil vapor probe was sealed completely to the surface using bentonite, a tracer gas was used in accordance with NYSDOH protocols to serve as a QA/QC to verify the integrity of the soil vapor probe seal. In addition, one to three implant volumes were purged prior to the collection of the soil vapor samples. All interior sub-slab vapor samples were co-located with indoor air samples. Indoor air samples were collected at a height approximately 3 ft above the floor to represent a height where occupants are normally seated. Additionally, one outdoor ambient air sample was collected. Sampling occurred for the duration of eight hours. At the conclusion of the sampling round, tracer monitoring was performed a second time to confirm the continued integrity of the sub-slab probe seals.

Haley & Aldrich of New York collected eight sub-slab soil vapor samples, eight co-located indoor air samples, and one ambient air sample, in accordance with the NYSDEC-approved SCWP. Samples were collected in appropriately sized Summa® canisters that were batch-certified clean by the laboratory. Samples were analyzed for VOCs using EPA Method TO-15. Flow rate for both purging and sampling did not exceed 0.2 liters per minute (L/min). The soil vapor purge log is included in Appendix F.

Table 1 provides a summary of all soil vapor samples collected as part of this SC, including sample locations, sample depths, and analyses performed on each sample.

4.6 QUALITY ASSURANCE/QUALITY CONTROL

The SC was conducted in accordance with the Quality Assurance Project Plan (QAPP) provided in the SCWP. The sampling program included several types of QA/QC samples and measures to ensure the usability of the data, as described in the SCWP. QA/QC samples included equipment rinsate/field blanks, trip blanks, sample duplicates, and matrix spike/matrix spike duplicates (MS/MSDs).

When applicable, the sample result summary tables list the laboratory method detection limit (MDL) at which a compound was non-detectable. The laboratory results were reported to the sample-specific practical quantitation limit (PQL), equal to the sample-specific MDL, supported by the instrument calibrations.

The reliability of laboratory data is supported by compliance with sample holding times and laboratory MDLs below cleanup criteria. The accuracy and precision of the laboratory analytical methods were maintained by using calibration and calibration verification procedures, laboratory control samples, and surrogate, matrix, and analytical spikes. A review of the laboratory data packages indicates that holding

times were met and no significant non-conformance issues were reported. Analytical laboratory reports are provided in Appendix G. Data have been validated as detailed below in Section 6.6. Data Usability Summary Reports (DUSRs) are included in Appendix H.

4.7 FIELD EQUIPMENT DECONTAMINATION

Downhole drilling equipment was decontaminated between each boring by washing with an Alconox-based solution. Decontamination wastewater was contained in a wash pan and containerized in 55-gallon drums for disposal. Handheld sampling equipment was decontaminated by hand in an Alconox-based solution and triple-rinsed with deionized water. Decontamination liquids were temporarily contained in 5-gallon buckets and then added to drums at the end of each workday.

4.8 INVESTIGATION DERIVED WASTE

Following sample collection, boreholes that were not converted to monitoring wells were backfilled with non-impacted soil cuttings and an upper bentonite plug. Boreholes were restored to grade with the surrounding area. No soil was identified as grossly contaminated, nor was there excess soil that could not be backfilled. Groundwater purged from the monitoring wells during development and sample collection was placed into a New York State Department of Transportation (NYSDOT)-approved 55-gallon drum pending off-site disposal. A total of two drums were produced during the SC containing purged groundwater. The drums were labeled and staged on-site in a manner that prevented leakage, deterioration, or release of waste. The drums were transferred to an approved facility by DPK for disposal on 13 June 2024.

4.9 REPORTING

Daily reports were provided to NYSDEC including a summary of Site activities, investigation progress updates, and photographs of field work. The daily reports are included in Appendix I.

5. Health and Safety

The work outlined above was completed under a Site-specific Health and Safety Plan (HASP), appended to the SCWP. The HASP was prepared in accordance with Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) regulations. Work was completed in Modified Level D personal protective equipment (PPE).

6. Contaminants of Concern and Nature and Extent of Contamination

6.1 APPLICABLE STANDARDS

Soil analytical results were compared to NYSDEC 6 NYCRR Part 375 UUSCOs, Protection of Groundwater Soil Cleanup Objective (PGWSCOs), and Restricted Residential Soil Cleanup Objectives (RRSCOs). Note that no standards for PFAS in soil currently exist in New York State; however, NYSDEC published soil guidance values (GVs) for Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) in October 2020 (latest revision April 2023). PFOA and PFOS soil sample results are compared to the UUSCO, RRSCO, and PGWSCO GV's outlined in the April 2023 PFAS Guidance.

Groundwater analytical results were compared to 6 NYCRR Part 703.5 NYSDEC T.O.G.S. 1.1.1 AWQS and GV's for Class GA Water. Emerging contaminants PFOA and PFOS were compared to the GV's for PFOA and PFOS outlined in the NYSDEC April 2023 PFAS Guidance. Emerging contaminant 1,4-dioxane was compared to the GV as set by NYSDEC in March 2023.

No standard currently exists for soil vapor samples in New York State.

6.2 FIELD OBSERVATIONS

Based on field observations from the SC, the Site is underlain by a layer of fill material consisting of dark brown to black silty clay. Fill extends from the surface to variable depths between 2 and 4 ft bgs. The fill is underlain by a potential native layer consisting of light to dark brown to gray silty clay and fine sand with varying amounts of gravel extending up to the terminus depth of each boring at 12 ft bgs within the basement of the existing building. No PID readings above background levels were observed during soil sampling activities.

Groundwater was encountered at depths ranging from approximately 2.76 to 3.68 ft bgs within the basement of the existing building and 8.57 to 9.83 ft bgs in monitoring wells located outside of the existing building. Groundwater beneath the Site generally flows from the southwest to northeast, with depth to water measurements ranging from elevation (El.) 8.87 ft at MW-11 and MW-16 to El. 9.53 ft at MW-14 (North American Vertical Datum of 1988 [NAVD88]). A groundwater contour map is provided on Figure 4.

6.3 SOIL SAMPLING RESULTS

Table 3 summarizes the analytical results from the SC soil sampling event. Figure 5 provides the soil boring locations as well as a summary of soil data that exceeded the respective standards during the May 2024 sampling event. Details of the soil boring logs are provided in Appendix C.

Volatile Organic Compounds

No VOCs were detected in any soil samples above applicable standards.

Semi-Volatile Organic Compounds

Six SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs), were detected in soil sample HA-SB-08_0-2 at concentrations exceeding the UUSCOs, RRSCOs, and/or PGWSCOs, including benzo(a)anthracene (maximum concentration of 2.4 ppm), benzo(a)pyrene (maximum concentration of 2.4 ppm), benzo(b)fluoranthene (maximum concentration of 2.9 ppm), benzo(k)fluoranthene (maximum concentration of 1.2 ppm), chrysene (maximum concentration of 2 ppm), and indeno(1,2,3-cd)pyrene (maximum concentration of 1.4 ppm).

No other SVOCs were detected above the respective standards in any soil sample.

Metals

Four metals were detected in multiple shallow soil samples (from 0 to 3 ft bgs) at concentrations exceeding the UUSCOs, RRSCOs, and/or PGWSCOs in four of the five soil borings, including copper (maximum concentration of 215 ppm in HA-SB-07_2-3), lead (maximum concentration of 4,390 ppm in HA-SB-04_0-2), mercury (maximum concentration of 0.77 ppm in HA-SB-07_0-2), and zinc (maximum concentration of 578 ppm in HA-SB-04_0-2).

Arsenic was detected above the UUSCO, RRSCO, and PGWSCO in one soil sample, HA-SB-04_0-2, at a maximum concentration of 21.8 ppm. Barium was detected above the UUSCO and RRSCO in one soil sample, HA-SB-04_0-2, at a maximum concentration of 474 ppm.

No other metals were detected in any soil samples above applicable standards.

Polychlorinated Biphenyls

No PCBs were detected in any soil samples above applicable standards.

Pesticides

One pesticide, 4,4-DDE, was detected above the UUSCO in two soil samples at a maximum concentration of 0.0059 ppm in HA-SB-07_0-2.

No other pesticides were detected in any soil samples above applicable standards.

Emerging Contaminants

1,4-dioxane was not detected above laboratory detection limits in any soil samples collected at the Site.

PFOS was detected above the GV of 0.88 parts per billion (ppb) for unrestricted use in HA-SB-06_2-3 at a maximum concentration of 0.9 ppb, but below the PGWSCO and RRSCO GVs. PFOA was not detected in any soil samples above applicable standards.

Concentrations of total PFOA/PFOS ranged from non-detect to a maximum estimated concentration of 0.928 ppb in HA SB-06_0-2.

6.4 GROUNDWATER SAMPLING RESULTS

Table 4 summarizes the analytical results from the groundwater sampling event. Figure 6 provides the groundwater monitoring well locations as well as a summary of the groundwater data from the sampling event. Figure 7 provides a summary of the emerging contaminants detected in groundwater data from the May 2024 sampling event. Groundwater sampling logs are provided in Appendix E.

Volatile Organic Compounds

Five of the nine groundwater samples collected, including one duplicate sample, reported one or more VOCs detected above the AWQS, including 1,1,1-trichloroethane (maximum concentration 2,700 ppb in the duplicate sample collected from MW-2), 1,1,2-trichloroethane (maximum concentration 3.5 ppb in both MW-2 and the duplicate sample collected from MW-2), 1,1-dichloroethane (maximum concentration 1,700 ppb in the duplicate sample collected from MW-2), 1,1-dichloroethene (maximum concentration 1,400 ppb in the duplicate sample collected from MW-2), 1,2-dichlorobenzene (maximum concentration 6.8 ppb in MW-17), benzene (maximum concentration 14 ppb in MW-15), chlorobenzene (maximum concentration 14 ppb in the duplicate sample collected from MW-2), chloroethane (maximum concentration 43 ppb in MW-15), PCE (maximum concentration 11 ppb in the duplicate sample collected from MW-2), and vinyl chloride (maximum concentration 47 ppb in the duplicate sample collected from MW-2).

No other VOCs were detected above the respective standards in any groundwater sample.

Semi-Volatile Organic Compounds

One SVOC, acenaphthene, was detected above the AWQS in one groundwater sample at a maximum concentration of 86 ppb in MW-15.

No other SVOCs were detected above the AWQS in any groundwater sample.

Polychlorinated Biphenyls

No PCBs were detected above the AWQS in any groundwater sample.

Dissolved Metals

Five dissolved metals were detected in multiple groundwater samples above the AWQS, including iron (maximum concentration 664 ppb in MW-15), magnesium (maximum concentration 94,800 ppb in MW-

17), manganese (maximum concentration 7830 ppb in MW-17), nickel (maximum concentration 594 ppb in MW-17), and sodium (maximum concentration 409,000 ppb in MW-8). Additionally, cadmium and copper were detected above the AWQS in MW-17 only, at maximum concentrations of 8.7 ppb and 445 ppb, respectively.

No other dissolved metals were detected above the AWQS in any groundwater sample.

Total Metals

Five total metals were detected above the AWQS in multiple groundwater samples, including cadmium (maximum concentration 8.8 ppb in MW-17), iron (maximum concentration 12,500 ppb in MW-12), magnesium (maximum concentration 93,500 ppb in MW-17), manganese (maximum concentration 7820 ppb in MW-17), nickel (maximum concentration 595 ppb in MW-17), and sodium (maximum concentration 427,000 ppb in MW-8). Additionally, copper, lead, and mercury were detected above the AWQS in one groundwater sample each, at maximum concentrations of 415 ppb in MW-17, 79.1 ppb in MW-16, and 0.77 ppb in MW-12, respectively.

No other total metals were detected above the AWQS in any groundwater sample.

Pesticides

No pesticides were detected above the AWQS in any groundwater sample.

Emerging Contaminants

Concentrations of 1,4-dioxane were compared to the GV of 0.35 ppb issued on 15 March 2023 by the NYSDEC. PFOA/PFOS compounds in groundwater are compared to the NYSDEC March GV of 6.7 parts per trillion (ppt) and 2.7 ppt, respectively. Figure 7 provides emerging contaminant data in groundwater.

1,4-dioxane was detected above the GV of 0.35 ppt in five groundwater samples, including one duplicate, at a maximum concentration of 9 ppb in MW-11.

PFOS was detected above the GV of 2.7 ppt in each of the ten groundwater samples, including one duplicate, at a maximum concentration of 72 ppt detected in both MW-12 and MW-15. PFOA was detected above the GV of 6.7 ppt in each of the ten groundwater samples, including one duplicate, at a maximum concentration of 79 ppt detected in both MW-8 and MW-15.

Total PFOA/PFOS concentrations in groundwater samples ranged from 39 ppt in MW-10 to a maximum concentration of 151 ppt in MW-15.

6.5 SOIL VAPOR SAMPLING RESULTS

Tables 5 and 6 provide summaries of the analytical results from the soil vapor sampling event. Figure 8 provides the soil vapor sampling locations as well as a summary of soil vapor data from the sampling event. Figure 9 provides the indoor and ambient air sampling locations as well as a summary of indoor

and ambient air data from the sampling event. The soil vapor purge log is provided in Appendix F and includes details on each soil vapor, indoor air, and ambient air sample collected.

Total sub-slab soil vapor VOC concentrations ranged from 128.76 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in HA-SS-11 to a maximum of 4345.9 $\mu\text{g}/\text{m}^3$ in HA-SS-06. Total sub-slab soil vapor CVOC concentrations ranged from 0.74 $\mu\text{g}/\text{m}^3$ in HA-SS-11 to a maximum of 27.95 $\mu\text{g}/\text{m}^3$ in HA-SS-05. Total sub-slab soil vapor benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations ranged from 27.9 $\mu\text{g}/\text{m}^3$ in HS-SS-08 to a maximum of 1,278 $\mu\text{g}/\text{m}^3$ in HA-SS-06.

Acetone was detected in each of the eight sub-slab soil vapor samples above laboratory detection limits at a maximum concentration of 2,100 $\mu\text{g}/\text{m}^3$ in HA-SS-06.

Several petroleum-related VOCs were detected at elevated concentrations in sub-slab soil vapor samples, including benzene (maximum concentration 9.5 $\mu\text{g}/\text{m}^3$ in HA-SS-04), ethylbenzene (maximum concentration 190 $\mu\text{g}/\text{m}^3$ in HA-SS-06), m,p-Xylenes (maximum concentration 760 $\mu\text{g}/\text{m}^3$ in HA-SS-06), o-Xylene (maximum concentration 310 $\mu\text{g}/\text{m}^3$ in HA-SS-06), and toluene (maximum concentration 39 $\mu\text{g}/\text{m}^3$ in HA-SS-04).

PCE was detected in each of the eight sub-slab soil vapor samples above laboratory detection limits at a maximum concentration of 17 $\mu\text{g}/\text{m}^3$ in HA-SS-05; TCE was detected in six of the eight sub-slab soil vapor samples above laboratory detection limits at a maximum concentration of 2.8 $\mu\text{g}/\text{m}^3$ in HA-SS-04; methylene chloride was detected above laboratory detection limits in six of the eight sub-slab soil vapor samples at a maximum concentration of 5.2 $\mu\text{g}/\text{m}^3$ in HA-SS-09; cis-1,2-dichloroethene was detected above laboratory detection limits in one sub-slab soil vapor sample, HA-SS-04, at a concentration of 0.2 $\mu\text{g}/\text{m}^3$; carbon tetrachloride was detected above laboratory detection limits in seven sub-slab soil vapor samples at a maximum concentration of 0.39 $\mu\text{g}/\text{m}^3$ in HA-SS-04; 1,1-Dichloroethene was detected above laboratory detection limits in three sub-slab soil vapor samples at a maximum concentration of 0.43 $\mu\text{g}/\text{m}^3$ in HA-SS-05; and, 1,1,1-trichloroethane was detected above laboratory detection limits in three sub-slab soil vapor samples at a maximum concentration of 6.7 $\mu\text{g}/\text{m}^3$ in HA-SS-05.

Total indoor and ambient air sample VOC concentrations ranged from 13.3 $\mu\text{g}/\text{m}^3$ in HA-AA-12 to a maximum of 97.81 $\mu\text{g}/\text{m}^3$ in HA-IA-08. Total CVOC concentrations in indoor and ambient air samples ranged from 1.95 $\mu\text{g}/\text{m}^3$ in HA-IA-11 to a maximum of 8.58 $\mu\text{g}/\text{m}^3$ in HA-IA-10. Total BTEX concentrations in indoor and ambient air samples ranged from 3.61 $\mu\text{g}/\text{m}^3$ in HA-IA-05 to a maximum of 11.77 $\mu\text{g}/\text{m}^3$ in HA-IA-08.

6.6 DATA VALIDATION

Category B laboratory reports for all soil, groundwater, and soil vapor samples included as part of this SCR, as well as the August 2023 Limited Phase II in Appendix G, were provided by Eurofins and were forwarded to Haley & Aldrich of New York's data validator. The DUSRs and data validator resume are included in Appendix H.

6.7 DATA USE

Validated analytical data, supplied in Analytical Services Protocol (ASP) Category B Data Packages, will be submitted to the NYSDEC EQUIS™ database in an Electronic Data Deliverable (EDD) package upon finalization of this SCR.

7. Conceptual Site Model (CSM)

7.1 AREAS OF CONCERN

The following areas of concern (AOCs) were identified at the Site:

AOC 1 – Impacts in Groundwater

VOCs (specifically CVOCs) were detected above the NYSDEC AWQS in groundwater at the Site and are likely the result of historical Site use. CVOC AWQS exceedances were primarily detected around MW-2 and MW-15 located in the southeastern portion of the Site. Additionally, LNAPL was identified in MW-3 which is located within the vicinity of the closed-in-place UST.

AOC 2 – Soil Vapor Impacts

VOCs, including petroleum-related VOCs (BTEX) and CVOCs, are present in the vapor phase at the Site and are likely the result of historical Site use. Petroleum-related VOCs were detected in sub-slab soil vapor samples above laboratory detection limits primarily in the southeastern portion of the Site, while CVOCs were detected across the Site.

7.2 POTENTIAL ON-SITE AND OFF-SITE SOURCES

Field observations and analytical results identified CVOCs, including PCE and vinyl chloride, in groundwater samples in the southeastern portion of the Site. CVOCs, including PCE and TCE, were also detected in sub-slab soil vapor samples; concentrations of PCE and TCE were detected Site-wide with the highest concentrations detected in the eastern portion of the Site. The CVOCs in groundwater and sub-slab soil vapor can likely be attributed to the historic operations of the Site, including multiple hospitals. CVOCs were not identified in the subsurface soil to indicate an on-site source contributing to the presence of CVOCs detected in both soil vapor and groundwater samples.

Additionally, elevated BTEX concentrations were detected in sub-slab soil vapor samples in the southeastern portion of the Site. This can likely be attributed to the proximity of the closed-in-place 7,500-gallon Fuel Oil #2 UST. Additionally, approximately 0.08 ft of free product was observed in MW-3. These findings indicate that free product likely continues to be present within the vicinity of the closed UST and may have contributed to elevated petroleum-related VOC concentrations detected in soil vapor samples.

8. Human Health and Environmental Risk Evaluation

8.1 HUMAN HEALTH RISK EVALUATION

A qualitative exposure assessment consists of characterizing the exposure setting (including the physical environment and potentially exposed human populations), identifying exposure pathways, and evaluating chemical fate and transport. An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site. An exposure pathway has the following five elements:

1. Receptor population;
2. Contaminant source;
3. Contaminant release and transport mechanism;
4. Point of exposure; and,
5. Route of exposure.

An exposure pathway is complete when all five elements of an exposure pathway are documented; a potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway is not documented but could reasonably occur. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway does not exist in the present and will not exist in the future.

8.1.1 Receptor Population

The receptor population includes the people who are or may be exposed to contaminants at a point of exposure. The identification of potential human receptors is based on the characteristics of the site, the surrounding land uses, and the probable future land uses. Receptors would include the current occupants of the property and construction/maintenance workers who may be employed to perform work on the property. Exposure routes would include direct contact activities and/or inhalation of soil vapor during ground intrusive activities (i.e., installation of monitoring wells below the building sub-slab).

The Site owner plans to renovate the first two floors for commercial and/or office use, consistent with surrounding property use and zoning. Exposed receptors under the future use scenario may comprise residents of the building, indoor employees, outdoor employees (e.g., groundskeepers or maintenance staff), and construction workers who may be employed at or perform work on the property. Site visitors may also be considered receptors; however, their exposure would be similar to that of the indoor employees but at a lesser frequency and duration.

8.1.2 Contaminant Sources

The source of contamination is defined as either the source of contaminant release to the environment (such as a waste disposal area or point of discharge) or the impacted environmental medium (soil, air, water) at the point of exposure. Sections 6.0 and 7.0 discuss the COCs present in the Site media at elevated

concentrations above background levels. In general, these are CVOCs in groundwater and petroleum-related VOCs and CVOCs in sub-slab soil vapor.

8.1.3 Contaminant Release and Transport

Contaminant release and transport mechanisms carry contaminants from the source to points where people may be exposed and are specific to the type of contaminant and Site use. This would include the indoor vapor intrusion pathway also referred to as “soil vapor intrusion.” Additional pathways could include skin contact, inhalation, and incidental ingestion of VOCs present in soil and groundwater when and where construction workers are involved in subsurface activities where volatiles are present at elevated concentrations.

8.1.4 Exposure Routes and Mechanisms

The point of exposure is a location where actual or potential human contact with a contaminated medium may occur. Based on the VOCs detected in soil vapor and exceedances of the AWQS for VOCs in groundwater, the point of exposure is defined as the entire Site.

The route of exposure is the manner in which a contaminant actually enters or contacts the human body (e.g., ingestion, inhalation, dermal absorption). Based on the types of receptors and points of exposure identified above, potential routes of exposure are listed below:

Current Use Scenario: The Site is currently developed with a mixed-use residential/commercial building with a partial cellar level and is paved with an impervious surface (concrete). The risk of exposure to contaminated soil and contaminated groundwater is very low, other than during subsurface investigations or other activities that disturb the subsurface. Release and transport mechanisms include contaminated surface soil transported as dust, contaminated groundwater flow, and volatilization of contaminants from soil and/or groundwater into the vapor phase. Persons at risk of exposure and exposure routes for this scenario are as follows:

- Occupant/Employee/Visitor – skin contact, inhalation, and incidental ingestion
- Construction/Utility Worker – skin contact, inhalation, and incidental ingestion

Remediation Scenario: As part of the implementation of the RA, the existing engineering controls for the Site (concrete slab) will remain in place. Planned construction/remedial activities include the renovation of the basement area to facilitate commercial use. Release and transport mechanisms include the volatilization of contaminants from soil and/or groundwater into the vapor phase. Persons at risk of exposure and exposure routes for this scenario are as follows:

- Construction/Utility Worker – skin contact, inhalation, and incidental ingestion
- Public Adjacent to the Site – inhalation

Future Use Scenario: The anticipated continued future use as a mixed-use building includes a partial basement. Routes of future exposure include cracks in the foundation or slab, or emergency repairs to the foundation walls or slab. Persons at risk of exposure and exposure routes for this scenario are as follows:

- Construction/Utility Worker – skin contact, inhalation, and incidental ingestion
- Occupant/Employee/Visitor – inhalation
- Public Adjacent to the Site – inhalation

Soil vapor intrusion is a relevant transport mechanism under the current and future use scenarios. In the remediation scenario, the potential for exposure via skin contact, inhalation, and/or incidental ingestion is low for construction workers involved in subsurface activities where VOCs are present in elevated concentrations, given the results of the SC.

8.1.5 Exposure Assessment

Based on the above assessment, the potential exposure pathways for the current and future use conditions are listed below.

Current Use Scenario

Site contaminants of concern (COCs) include CVOCs in groundwater and petroleum-related VOCs and CVOCs in sub-slab soil vapor. Under current conditions, the likelihood of exposure to groundwater is limited. The Site is currently developed with a mixed-use residential/commercial building with a partial cellar level and is paved with an impervious surface (concrete). The Site entrances are each locked and secured with Site access only granted to personnel associated with the renovation. Potable water for Queens will continue to be sourced from reservoirs in the Catskill and Delaware Watersheds. Intrusive work on the Site will be done in accordance with a Site-Specific HASP and the donning of PPE.

Remediation Scenario

The exposure element exists for each element during the remediation phase. The overall risk will be minimized by the implementation of a Site-specific HASP, localized monitoring of organic vapors, community air monitoring on the Site perimeter for particulates and VOCs where work is completed outdoors, as applicable, vapor and dust suppression techniques, and use of appropriate PPE. Additionally, the Site will be remediated under a Remedial Action Work Plan (RAWP). In addition, the Site will be secured and inaccessible to the public during remedial activities.

Future Use Scenario

Under the proposed future condition (after remediation), residual contaminants may remain on the Site. The remaining contaminants would include those listed in the current conditions. If contaminants remain on the Site after remediation, the route of exposure will be mitigated by proper installation/maintenance of engineering controls such as Site capping system foundation and implementation of institutional controls such as land use and groundwater use restrictions.

8.2 FISH AND WILDLIFE IMPACT ANALYSIS

NYSDEC DER-10 requires an on-site and off-site Fish and Wildlife Resource Impact Analysis if the stipulated criteria are met. The Site, which was developed in the late 1800s and currently operates as a mixed-use building, is located in the Elmhurst neighborhood of Queens, New York. The Site provides little or no wildlife habitat or food value and/or access to the detected subsurface contamination. No natural waterways are present on or directly adjacent to the Site. The proposed future use of the Site is for residential and commercial purposes. Based on the requirements stipulated in Section 3.10 and Appendix 3C of DER-10, there was no need to prepare a Fish and Wildlife Resource Impact Analysis for the Site.

9. Conclusions and Recommendations

9.1 CONCLUSIONS

Based on the results of this SCR, the following conclusions have been identified:

Site COCs are primarily CVOCs in groundwater and petroleum-related VOCs and CVOCs in sub-slab soil vapor.

The sources of CVOCs in groundwater and soil vapor are primarily due to regional impacts to groundwater. The sources of petroleum-related VOCs in groundwater and soil vapor are primarily due to the historical spill case associated with the Site and the remaining petroleum-related contamination in groundwater.

10. References

1. New York State Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1) dated June 1998.
2. New York State Department of Environmental Conservation, Part 375 of Title 6 of the New York Compilation of Codes, Rules, and Regulations, Effective December 14, 2006.
3. Program Policy DER-10, "Technical Guidance for Site Investigation and Remediation," New York State Department of Environmental Conservation, May 2010.
4. ASTM Phase I Environmental Site Assessment Report, 90-02 Queens Boulevard, Queens, New York. Prepared by Hydro Techn Environmental, Corp., December 27, 2013.
5. Phase II Environmental Site Assessment, 90-02 Queens Boulevard, Queens, New York, Prepared by Hydro Tech Environmental, Corp., January 14, 2014.
6. Focused Subsurface Investigation, 90-02 Queens Boulevard, Queens, New York, Prepared by Hydro Tech Environmental, Corp., August 5, 2015.
7. Subsurface Investigation Report, 90-02 Queens Boulevard, Queens, New York, Prepared by Hydro Tech Environmental, Corp., September 15, 2015.
8. Focused Subsurface Investigation, 90-02 Queens Boulevard, Queens, New York, Prepared by Hydro Tech Environmental, Corp., March 27, 2017.
9. United States Environmental Protection Agency, Low Flow Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, EQASOP-GW 001, September 19, 2017.
10. Documentation of Tank Abandonment and Groundwater Quality, 90-02 Queens Boulevard, Queens, New York, Prepared by Hydro Tech Environmental, Corp., February 17, 2020.
11. Enhanced Fluid Recovery (EFR) Results – February and March 2020, 90-02 Queens Boulevard, Queens, New York, Prepared by Hydro Tech Environmental, Corp., May 7, 2020.
12. ASTM Phase I Environmental Site Assessment, 90-02 Queens Boulevard, Queens, New York, Prepared by Nelson, Pope & Voorhis, LLC, January 26, 2023.
13. Limited Phase II Environmental Site Investigation Report, 90-02 Queens Boulevard, Queens, New York, Prepared by Haley & Aldrich of New York, August 21, 2023.
14. New York State Department of Environmental Conservation, Division of Environmental Remediation, Sampling, Analysis and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) under NYSDEC Part 375 Remedial Program, Effective April 2023.

15. Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 (Revised 2017 and 2024).

https://haleyaldrich.sharepoint.com/sites/MadisonRealtyCapital/Shared Documents/0208933.90-02 Queens Boulevard/Deliverables/3. Site Characterization Report/Text/2024-0715-HANY-90-02 Queens Blvd-SCR_F.docx

TABLES

TABLE 1
SAMPLE COLLECTION SUMMARY
90-02 QUEENS BOULEVARD SITE
QUEENS, NEW YORK

Boring Number	Sample Date	Sample Depth	Rationale	Target Compound List VOCs (8260B)	Target Compound List SVOCs (8270C)	Total Analyte List Metals (6010)	PCBs (8082)	Pesticides (8081B)	PFAS (1633)	1,4-Dioxane (8270 SIM)	VOCs (TO-15)
SOIL											
HA SB-04	5/15/2024	0-2'	Surface Sample	X	X	X	X	X	X	X	-
	5/15/2024	2-3'	Groundwater Interface	X	X	X	X	X	X	X	-
HA SB-05	5/15/2024	0-2'	Surface Sample	X	X	X	X	X	X	X	-
	5/15/2024	2-3'	Groundwater Interface	X	X	X	X	X	X	X	-
HA SB-06	5/15/2024	0-2'	Surface Sample	X	X	X	X	X	X	X	-
	5/15/2024	2-3'	Groundwater Interface	X	X	X	X	X	X	X	-
HA SB-07	5/15/2024	0-2'	Surface Sample	X	X	X	X	X	X	X	-
	5/15/2024	2-3'	Groundwater Interface	X	X	X	X	X	X	X	-
HA SB-08	5/15/2024	0-2'	Surface Sample	X	X	X	X	X	X	X	-
	5/15/2024	2-3'	Groundwater Interface	X	X	X	X	X	X	X	-
DUP-01_20240515	5/15/2024	HA-SB-08_0-2	Duplicate Sample	X	X	X	X	X	X	X	-
MS	5/15/2024	HA-SB-07_2-3	MS	X	X	X	X	X	X	X	-
MSD	5/15/2024	HA-SB-07_2-3	MSD	X	X	X	X	X	X	X	-
FB-01_20240515	5/15/2024	-	Field Blank	X	X	X	X	X	X	X	-
EB-01_20240515	5/15/2024	-	Equipment Blank	-	-	-	-	-	X	-	-
TB-01_20240515	5/15/2024	-	Trip Blank	X	-	-	-	-	-	-	-
GROUNDWATER											
MW-1	5/23,28/2024	-	-	X	X	X	X	X	X	X	-
MW-2	5/23,28/2024	-	-	X	X	X	X	X	X	X	-
MW-8	5/24,28/2024	-	-	X	X	X	X	X	X	X	-
MW-10	5/24,28/2024	-	-	X	X	X	X	X	X	X	-
MW-11	5/23,28/2024	-	-	X	X	X	X	X	X	X	-
MW-12	5/23,28/2024	-	-	X	X	X	X	X	X	X	-
MW-15	5/24,28/2024	-	-	X	X	X	X	X	X	X	-
MW-16	5/24,28/2024	-	-	X	X	X	X	X	X	X	-
MW-17	5/24,28/2024	-	-	X	X	X	X	X	X	X	-
MS	5/23,28/2024	MW-2	-	X	X	X	X	X	X	X	-
MSD	5/23,28/2024	MW-2	-	X	X	X	X	X	X	X	-
DUP-01_20240523	5/23,28/2024	MW-2	-	X	X	X	X	X	X	X	-
FB-01_20240523	5/23,28/2024	-	-	X	X	X	X	X	X	X	-
EB-01_20240523	5/23/2024	-	-	-	-	-	-	-	X	-	-
EB-01_20240524	5/24/2024	-	-	-	-	-	-	-	X	-	-
TB-01_20240523	5/23/2024	-	-	X	-	-	-	-	-	-	-
TB-02_20240523	5/23/2024	-	-	X	-	-	-	-	-	-	-
SOIL VAPOR											
HA SS-04	5/16/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA SS-05	5/16/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA SS-06	5/16/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA SS-07	5/16/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA SS-08	5/16/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA SS-09	5/16/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA SS-10	5/16/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA SS-11	5/23/2024	1'	1-2' above groundwater interface	-	-	-	-	-	-	-	X
HA IA-04	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA IA-05	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA IA-06	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA IA-07	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA IA-08	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA IA-09	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA IA-10	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA IA-11	5/23/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X
HA AA-12	5/16/2024	-	Indoor air sample 3' above slab	-	-	-	-	-	-	-	X

Notes:
VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
PCBs - Polychlorinated biphenyls
PFAS - Per- and Polyfluoroalkyl Substances
"X" = Run for analysis

QAQC samples include:
MS/MSD - 1 for every 20 samples
Field Duplicate - 1 for every 20 samples
Trip Blanks - 1 per cooler of samples to be analyzed for VOCs
Field Blanks - 1 for every 20 samples
"- " = Not applicable

		Synoptic Water Level Measurement Log			
PROJECT	90-02 Queens Boulevard Site Characterization				
LOCATION	90-02 Queens Boulevard, Queens, NY				
CLIENT	9002 Commercial Unit LLC				
H&A FILE NO.	0208933				
PROJECT MANAGER	M. Levy				
FIELD REP.	G. Poulton				
GAUGING DATE	6/13/2024				
WEATHER	H: 84 L: 65, Sunny, Wind: W to E, 9 mph, Humidity: 63%				
MONITORING WELL ID	TIME	DEPTH TO WATER (FT BELOW TOC)	WELL DEPTH (FT BTOC)	TOP OF CASING (FT)	GROUNDWATER ELEVATION (FT)
MW-1	10:12	3.43	14.25	12.33	8.90
MW-2	10:10	3.46	13.03	12.37	8.91
MW-3*	10:55	3.20	14.01	12.10	8.90
MW-4	9:55	2.60	15.43	12.12	9.52
MW-5	10:00	2.54	13.73	11.90	9.36
MW-6	10:27	8.76	21.48	17.93	9.17
MW-7	10:22	9.11	22.60	18.29	9.18
MW-8	10:30	8.23	16.85	17.55	9.32
MW-9	10:45	-	9.55	18.18	-
MW-10	10:20	9.60	19.54	18.74	9.14
MW-11	10:05	3.35	12.58	12.22	8.87
MW-12	10:15	3.14	9.70	12.05	8.91
MW-13	10:40	8.42	13.50	17.87	9.45
MW-14	10:37	8.32	9.45	17.85	9.53
MW-15	11:10	3.23	10.32	12.11	8.88
MW-16	10:03	3.07	10.75	11.94	8.87
MW-17	10:07	3.16	10.46	12.05	8.89

Comments:

*Product was observed in monitoring well MW-3 at 3.12 ft btoc.

1. Monitoring wells MW-1 through MW-17 were surveyed by DPK Consulting on 13 June 2024.
2. Wells were gauged on 13 June 2024.
3. Elevation refers to the North American Vertical Datum of 1988 (NAVD88).
4. All dimensions are in US survey feet.

TABLE 3
SUMMARY OF SOIL QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	Action Level													
	Restricted Use Soil Cleanup Objectives - Protection of Groundwater	NY Part 375 Restricted Residential Use Soil Cleanup Objectives	NY Part 375 Unrestricted Use Soil Cleanup Objectives	HA-SB-04 HA-SB-04_0-2 05/15/2024 460-304031-7 460-304032-3 0 - 2 (ft)	HA-SB-04 HA-SB-04_2-3 05/15/2024 460-304031-8 460-304032-4 2 - 3 (ft)	HA-SB-05 HA-SB-05_0-2 05/15/2024 460-304031-1 460-304032-1 0 - 2 (ft)	HA-SB-05 HA-SB-05_2-3 05/15/2024 460-304031-2 460-304032-2 2 - 3 (ft)	HA-SB-06 HA-SB-06_0-2 05/15/2024 460-304031-9 460-304032-9 0 - 2 (ft)	HA-SB-06 HA-SB-06_2-3 05/15/2024 460-304031-10 460-304032-10 2 - 3 (ft)	HA-SB-07 HA-SB-07_0-2 05/15/2024 460-304031-5 460-304032-7 0 - 2 (ft)	HA-SB-07 HA-SB-07_2-3 05/15/2024 460-304031-6 460-304032-8 2 - 3 (ft)	HA-SB-08 HA-SB-08_0-2 05/15/2024 460-304031-3 460-304032-5 0 - 2 (ft)	HA-SB-08 DUP-01_20240515 05/15/2024 460-304031-13 460-304032-12 0 - 2 (ft)	HA-SB-08 HA-SB-08_2-3 05/15/2024 460-304031-4 460-304032-6 2 - 3 (ft)
Volatile Organic Compounds (mg/kg)														
1,1,1-Trichloroethane	0.68	100	0.68	ND (0.00072)	ND (0.00057)	0.0048	0.0014	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
1,1,2,2-Tetrachloroethane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,1,2-Trichloroethane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,1-Dichloroethane	0.27	26	0.27	ND (0.00072)	0.0066	0.0032	0.015	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
1,1-Dichloroethene	0.33	100	0.33	ND (0.00072)	0.0063	0.00091	0.0079	0.0012	ND (0.00055)	ND (0.00075)	0.002 J	ND (0.00072)	ND (0.00074)	0.00084 J-
1,2,3-Trichlorobenzene	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,2,4-Trichlorobenzene	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,2,4-Trimethylbenzene	3.6	52	3.6	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,2-Dibromoethane (Ethylene Dibromide)	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,2-Dichlorobenzene	1.1	100	1.1	ND (0.00072)	ND (0.00068)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,2-Dichloroethane	0.02	3.1	0.02	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,2-Dichloropropane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,3,5-Trimethylbenzene	8.4	52	8.4	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	2.4	49	2.4	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
1,4-Dichlorobenzene	1.8	13	1.8	ND (0.00072)	ND (0.00068)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
2-Butanone (Methyl Ethyl Ketone)	0.12	100	0.12	ND (0.0036)	ND (0.0029)	ND (0.0034)	ND (0.0032)	ND (0.0035)	ND (0.0027)	ND (0.0038)	ND (0.0038) J	0.0093 J	ND (0.0037) J	0.0018 J-
2-Hexanone (Methyl Butyl Ketone)	NA	NA	NA	ND (0.0036)	ND (0.0029)	ND (0.0034)	ND (0.0032)	ND (0.0035)	ND (0.0027)	ND (0.0038)	ND (0.0038) J	ND (0.0036)	ND (0.0037)	ND (0.0034)
2-Phenylbutane (sec-Butylbenzene)	11	100	11	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	NA	NA	ND (0.0036)	ND (0.0029)	ND (0.0034)	ND (0.0032)	ND (0.0035)	ND (0.0027)	ND (0.0038)	ND (0.0038) J	ND (0.0036)	ND (0.0037)	ND (0.0034)
Acetone	0.05	100	0.05	0.012	0.0096	ND (0.0041)	ND (0.0038)	ND (0.0041)	ND (0.0033)	ND (0.0045)	ND (0.0046) J	0.044 J	0.022 J	0.021 J-
Benzene	0.06	4.8	0.06	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	0.00036 J
Bromodichloromethane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Bromoform	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Bromomethane (Methyl Bromide)	NA	NA	NA	ND (0.0014)	ND (0.0011)	ND (0.0014)	ND (0.0013)	ND (0.0014)	ND (0.0011)	ND (0.0015)	ND (0.0015)	ND (0.0014)	ND (0.0015)	ND (0.0014) J
Carbon disulfide	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	0.0027 J	ND (0.00074) J	0.0032 J-
Carbon tetrachloride	0.76	2.4	0.76	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Chlorobenzene	1.1	100	1.1	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Chlorobromomethane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Chloroethane	NA	NA	NA	ND (0.00072)	ND (0.00068)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
Chloroform (Trichloromethane)	0.37	49	0.37	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
Chloromethane (Methyl Chloride)	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
cis-1,2-Dichloroethene	0.25	100	0.25	ND (0.00072)	ND (0.00068)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
cis-1,3-Dichloropropene	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Cyclohexane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	0.00053 J-
Dibromochloromethane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Dichlorodifluoromethane (CFC-12)	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Ethylbenzene	1	41	1	ND (0.00072)	ND (0.00068)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	0.00027 J
Isopropylbenzene (Cumene)	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	0.0013	ND (0.00074)	ND (0.00068)
m,p-Xylenes	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	0.00059 J
Methyl acetate	NA	NA	NA	ND (0.0036)	ND (0.0029)	ND (0.0034)	ND (0.0032)	ND (0.0035)	ND (0.0027)	ND (0.0038)	ND (0.0038)	ND (0.0036)	ND (0.0037)	ND (0.0034) J
Methyl Tert Butyl Ether (MTBE)	0.93	100	0.93	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
Methylcyclohexane	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	0.0012
Methylene chloride (Dichloromethane)	0.05	100	0.05	ND (0.0014)	ND (0.0011)	ND (0.0014)	ND (0.0018)	ND (0.0019)	ND (0.0018)	ND (0.0016)	ND (0.0015) J	ND (0.0014)	ND (0.0015)	ND (0.0014) J
n-Butylbenzene	12	100	12	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	3.9	100	3.9	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	0.00049 J
Styrene	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
tert-Butylbenzene	5.9	100	5.9	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	1.3	19	1.3	0.00027 J	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Toluene	0.7	100	0.7	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	0.00046 J
trans-1,2-Dichloroethene	0.19	100	0.19	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
trans-1,3-Dichloropropene	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Trichloroethene	0.47	21	0.47	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Trichlorofluoromethane (CFC-11)	NA	NA	NA	ND (0.00072)	ND (0.00068)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
Trifluorotrichloroethane (Freon 113)	NA	NA	NA	ND (0.00072)	ND (0.00057)	ND (0.00068)	ND (0.00064)	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068)
Vinyl chloride	0.02	0.9	0.02	ND (0.00072)	0.0029	ND (0.00068)	0.00057 J	ND (0.00069)	ND (0.00055)	ND (0.00075)	ND (0.00076) J	ND (0.00072)	ND (0.00074)	ND (0.00068) J
Xylene (Total)	1.6	100	0.26	-	-	-	-	-	-	-	-	-	-	-

TABLE 3
SUMMARY OF SOIL QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	Action Level													
	Restricted Use Soil Cleanup Objectives - Protection of Groundwater	NY Part 375 Restricted Residential Use Soil Cleanup Objectives	NY Part 375 Unrestricted Use Soil Cleanup Objectives	HA-SB-04 HA-SB-04_0-2 05/15/2024 460-304031-7 460-304032-3 0 - 2 (ft)	HA-SB-04 HA-SB-04_2-3 05/15/2024 460-304031-8 460-304032-4 2 - 3 (ft)	HA-SB-05 HA-SB-05_0-2 05/15/2024 460-304031-1 460-304032-1 0 - 2 (ft)	HA-SB-05 HA-SB-05_2-3 05/15/2024 460-304031-2 460-304032-2 2 - 3 (ft)	HA-SB-06 HA-SB-06_0-2 05/15/2024 460-304031-9 460-304032-9 0 - 2 (ft)	HA-SB-06 HA-SB-06_2-3 05/15/2024 460-304031-10 460-304032-10 2 - 3 (ft)	HA-SB-07 HA-SB-07_0-2 05/15/2024 460-304031-5 460-304032-7 0 - 2 (ft)	HA-SB-07 HA-SB-07_2-3 05/15/2024 460-304031-6 460-304032-8 2 - 3 (ft)	HA-SB-08 HA-SB-08_0-2 05/15/2024 460-304031-3 460-304032-5 0 - 2 (ft)	HA-SB-08 DUP-01_20240515 05/15/2024 460-304031-13 460-304032-12 0 - 2 (ft)	HA-SB-08 HA-SB-08_2-3 05/15/2024 460-304031-4 460-304032-6 2 - 3 (ft)
Semi-Volatile Organic Compounds (mg/kg)														
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
1,4-Dioxane	0.1	13	0.1	ND (0.035)	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)
2,2'-oxybis(1-Chloropropane)	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2,3,4,6-Tetrachlorophenol	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2,4,5-Trichlorophenol	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2,4,6-Trichlorophenol	NA	NA	NA	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
2,4-Dichlorophenol	NA	NA	NA	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
2,4-Dimethylphenol	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2,4-Dinitrophenol	NA	NA	NA	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)
2,4-Dinitrotoluene	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
2,6-Dinitrotoluene	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
2-Chloronaphthalene	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2-Chlorophenol	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2-Methylnaphthalene	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	0.016 J	ND (0.34)	ND (0.35)	ND (0.35)	0.073 J	ND (0.34)	0.033 J
2-Methylphenol (o-Cresol)	0.33	100	0.33	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2-Nitroaniline	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
2-Nitrophenol	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
3,3'-Dichlorobenzidine	NA	NA	NA	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
3-Nitroaniline	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
4,6-Dinitro-2-methylphenol	NA	NA	NA	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
4-Chloro-3-methylphenol	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
4-Chloroaniline	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
4-Chlorophenyl phenyl ether	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
4-Methylphenol	0.33	100	0.33	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
4-Nitroaniline	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
4-Nitrophenol	NA	NA	NA	ND (0.71)	ND (0.69)	ND (0.71)	ND (0.69)	ND (0.69)	ND (0.68)	ND (0.71)	ND (0.71)	ND (0.69)	ND (0.69)	ND (0.69)
Acenaphthene	98	100	20	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	0.016 J	ND (0.34)	ND (0.35)	ND (0.35)	0.17 J	ND (0.34)	0.031 J
Acenaphthylene	107	100	100	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	0.013 J	ND (0.34)	ND (0.35)	ND (0.35)	0.6 J	0.057 J	0.23 J
Acetophenone	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Anthracene	1000	100	100	0.034 J	ND (0.34)	ND (0.35)	ND (0.34)	0.059 J	ND (0.34)	ND (0.35)	ND (0.35)	0.45 J	0.035 J	0.11 J
Atrazine	NA	NA	NA	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Benzaldehyde	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Benzo(a)anthracene	1	1	1	0.16	ND (0.034)	ND (0.035)	ND (0.034)	0.18	ND (0.034)	0.036	ND (0.035)	2.4 J	0.19 J	0.35
Benzo(a)pyrene	22	1	1	0.17	ND (0.034)	ND (0.035)	ND (0.034)	0.17	ND (0.034)	0.055	ND (0.035)	2.4 J	0.24 J	0.49
Benzo(b)fluoranthene	1.7	1	1	0.23	ND (0.034)	ND (0.035)	ND (0.034)	0.21	ND (0.034)	0.072	ND (0.035)	2.9 J	0.27 J	0.56
Benzo(g,h,i)perylene	1000	100	100	0.13 J	ND (0.34)	ND (0.35)	ND (0.34)	0.099 J	ND (0.34)	0.053 J	ND (0.35)	0.99 J	0.14 J	0.3 J
Benzo(k)fluoranthene	1.7	3.9	0.8	0.095	ND (0.034)	ND (0.035)	ND (0.034)	0.083	ND (0.034)	0.032 J	ND (0.035)	1.2 J	0.1 J	0.21
Biphenyl	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	0.015 J	ND (0.34)	ND (0.34)
bis(2-Chloroethoxy)methane	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
bis(2-Chloroethyl)ether	NA	NA	NA	ND (0.035)	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)
bis(2-Ethylhexyl)phthalate	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	0.029 J	ND (0.34)	ND (0.34)
Butyl benzylphthalate (BBP)	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Caprolactam	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Carbazole	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	0.03 J	ND (0.34)	ND (0.35)	ND (0.35)	0.054 J	ND (0.34)	ND (0.34)
Chrysene	1	3.9	1	0.19 J	ND (0.34)	ND (0.35)	ND (0.34)	0.18 J	ND (0.34)	0.041 J	ND (0.35)	2 J	0.2 J	0.33 J
Dibenz(a,h)anthracene	1000	0.33	0.33	0.015 J	ND (0.034)	ND (0.035)	ND (0.034)	0.02 J	ND (0.034)	ND (0.035)	ND (0.035)	0.33 J	0.03 J	0.085
Dibenzofuran	210	59	7	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	0.021 J	ND (0.34)	ND (0.35)	ND (0.35)	0.13 J	ND (0.34)	0.023 J
Diethyl phthalate	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Dimethyl phthalate	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Di-n-butylphthalate (DBP)	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Di-n-octyl phthalate (DnOP)	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Fluoranthene	1000	100	100	0.33 J	ND (0.34)	ND (0.35)	ND (0.34)	0.33 J	ND (0.34)	0.032 J	ND (0.35)	3 J	0.31 J	0.5
Fluorene	386	100	30	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	0.022 J	ND (0.34)	ND (0.35)	ND (0.35)	0.16 J	0.011 J	0.033 J
Hexachlorobenzene	3.2	1.2	0.33	ND (0.035)	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)
Hexachlorobutadiene	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Hexachlorocyclopentadiene	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Hexachloroethane	NA	NA	NA	ND (0.035)	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)
Indeno(1,2,3-cd)pyrene	8.2	0.5	0.5	0.16	ND (0.034)	ND (0.035)	ND (0.034)	0.14	ND (0.034)	0.08	ND (0.035)	1.4 J	0.18 J	0.35
Isophorone	NA	NA	NA	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)
Naphthalene	12	100	12	0.016 J	ND (0.34)	ND (0.35)	ND (0.34)	0.034 J	ND (0.34)	ND (0.35)	ND (0.35)	0.16 J	0.027 J	0.1 J
Nitrobenzene	NA	NA	NA	ND (0.035)	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)
N-Nitrosodi-n-propylamine	NA	NA	NA	ND (0.035)	ND (0.034)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.035)	ND (0.035)	ND (0.034)	ND (0.034)	ND (0.034)
N-Nitrosodiphenylamine	NA	NA	NA	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Pentachlorophenol	0.8	6.7	0.8	ND (0.28)	ND (0.27)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)	ND (0.28)	ND (0.28)	ND (0.27)	ND (0.27)	ND (0.27)
Phenanthrene	1000	100	100	0.19 J	ND (0.34)	ND (0.35)	ND (0.34)	0.29 J	ND (0.34)	0.017 J	ND (0.35)	0.57 J	0.15 J	0.077 J
Phenol	0.33	100	0.33	ND (0.35)	ND (0.34)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.35)	ND (0.35)	ND (0.34)	ND (0.34)	ND (0.34)
Pyrene	1000	100	100	0.3 J	ND (0.34)	ND (0.35)	ND (0.34)	0.28 J	ND (0.34)	0.031 J	ND (0.35)	2.8 J	0.31 J	0.56

TABLE 3
SUMMARY OF SOIL QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	Action Level													
	Restricted Use Soil Cleanup Objectives - Protection of Groundwater	NY Part 375 Restricted Residential Use Soil Cleanup Objectives	NY Part 375 Unrestricted Use Soil Cleanup Objectives	HA-SB-04 HA-SB-04_0-2 05/15/2024 460-304031-7 460-304032-3 0 - 2 (ft)	HA-SB-04 HA-SB-04_2-3 05/15/2024 460-304031-8 460-304032-4 2 - 3 (ft)	HA-SB-05 HA-SB-05_0-2 05/15/2024 460-304031-1 460-304032-1 0 - 2 (ft)	HA-SB-05 HA-SB-05_2-3 05/15/2024 460-304031-2 460-304032-2 2 - 3 (ft)	HA-SB-06 HA-SB-06_0-2 05/15/2024 460-304031-9 460-304032-9 0 - 2 (ft)	HA-SB-06 HA-SB-06_2-3 05/15/2024 460-304031-10 460-304032-10 2 - 3 (ft)	HA-SB-07 HA-SB-07_0-2 05/15/2024 460-304031-5 460-304032-7 0 - 2 (ft)	HA-SB-07 HA-SB-07_2-3 05/15/2024 460-304031-6 460-304032-8 2 - 3 (ft)	HA-SB-08 HA-SB-08_0-2 05/15/2024 460-304031-3 460-304032-5 0 - 2 (ft)	HA-SB-08 DUP-01_20240515 05/15/2024 460-304031-13 460-304032-12 0 - 2 (ft)	HA-SB-08 HA-SB-08_2-3 05/15/2024 460-304031-4 460-304032-6 2 - 3 (ft)
Inorganic Compounds (mg/kg)														
Aluminum	NA	NA	NA	12000	7960	11600	8520	9710	9280	10200	12600	9260	9780	8570
Antimony	NA	NA	NA	4.6	0.38 J	0.13 J	ND (0.83)	0.57 J	0.71 J	1.8	1.2	0.44 J	0.4 J	0.49 J
Arsenic	16	16	13	21.8	1.6	2.5	1.5	3.2	3.5	6.5	3.3	3.2	3.3	3.5
Barium	820	400	350	474	36.9	41.9	35.6	85.7	51.7	155	117	94.7	62.7	62.7
Beryllium	47	72	7.2	0.63 J	0.31	0.46	0.38	0.46	0.43	0.51	0.55	0.38	0.4	0.37
Cadmium	7.5	4.3	2.5	1.6 J	ND (0.76)	ND (0.83)	ND (0.83)	0.19 J	0.094 J	0.41 J	0.18 J	0.23 J	0.18 J	0.11 J
Calcium	NA	NA	NA	12700	1230	1120	823	7670	2240	7920	2170	5600	8910	4500
Chromium	NA	NA	NA	31.5	22.3	23.5	21.9	24.9	26.1	23.2	26	28.2	22.8	22.2
Cobalt	NA	NA	NA	11.1	4.1 J-	6 J-	5.6 J-	6.6 J-	6.6 J-	6.1 J-	7 J-	7.4 J-	7 J-	6.2 J-
Copper	1720	270	50	109	8.9	11.5	15.3	27.6	21.8	45.8	251	26.7 J	71.7 J	21.6
Iron	NA	NA	NA	93300	12000	18800	14900	17200	18800	15400	15500	19000	17400	14700
Lead	450	400	63	4390	19.5	8	4.8	87.1	28.4	510	254	81.8 J	471 J	63.8
Magnesium	NA	NA	NA	3100	1630	2050	1580	2740	2260	2380	2270	4330	4440	3440
Manganese	2000	2000	1600	534 J	92 J	146 J	148 J	302 J	252 J	355 J	346 J	239 J	212 J	150 J
Mercury	0.73	0.81	0.18	0.22	ND (0.017)	ND (0.016)	ND (0.016)	0.18	0.048	0.77	0.39	0.1 J	0.071 J	0.034
Nickel	130	310	30	29.3	9.3	11.6	12.7	14.4	14.4	14	14.4	18.2	18.2	14.2
Potassium	NA	NA	NA	1240	569 J-	742 J-	924 J-	921 J-	808 J-	973 J-	979 J-	2580 J-	1520 J-	1340 J-
Selenium	4	180	3.9	0.79 J	ND (0.96)	0.23 J	ND (1)	0.17 J	0.15 J	0.42 J	0.33 J	0.29 J	0.18 J	0.36 J
Silver	8.3	180	2	0.52 J	ND (0.31) J	ND (0.33) J	ND (0.33) J	0.078 J-	ND (0.31) J	0.33 J-	0.24 J-	ND (0.32) J	0.081 J-	ND (0.3) J
Sodium	NA	NA	NA	238 J	94.6	120	78.4 J	131	90.5	146	142	171	245	174
Thallium	NA	NA	NA	0.19 J	0.06 J	0.098 J	0.075 J	0.098 J	0.093 J	0.15 J	0.13 J	0.16 J	0.1 J	0.11 J
Vanadium	NA	NA	NA	97	24.8 J-	33.1 J-	30.2 J-	33.5 J-	35.8 J-	29.4 J-	33 J-	35.4 J-	40.2 J-	29.2 J-
Zinc	2480	10000	109	578	23	25.6	21.5	86.9	44.7	199	293	75.1	61.4	57.9
PCBs (mg/kg)														
Aroclor-1016 (PCB-1016)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1221 (PCB-1221)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1232 (PCB-1232)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1242 (PCB-1242)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1248 (PCB-1248)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1254 (PCB-1254)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	0.044 J	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1260 (PCB-1260)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1262 (PCB-1262)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Aroclor-1268 (PCB-1268)	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Polychlorinated biphenyls (PCBs)	3.2	1	0.1	ND (0.071)	ND (0.069)	ND (0.071)	0.044 J	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)
Pesticides (mg/kg)														
4,4'-DDD	14	13	0.0033	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	0.0027 J	ND (0.0069)	ND (0.0069)
4,4'-DDE	17	8.9	0.0033	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	0.0059 J	ND (0.0071)	ND (0.0069)	0.0056 J	ND (0.0069)
4,4'-DDT	136	7.9	0.0033	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	0.0022 J	ND (0.0069)
Aldrin	0.19	0.097	0.005	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
alpha-BHC	0.02	0.48	0.02	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.002)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)
beta-BHC	0.09	0.36	0.036	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.002)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)
Chlordane	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	0.13	0.062 J
delta-BHC	0.25	100	0.04	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.002)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)
Dieldrin	0.1	0.2	0.005	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.002)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)
Endosulfan I	102	24	2.4	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Endosulfan II	102	24	2.4	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Endosulfan sulfate	1000	24	2.4	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Endrin	0.06	11	0.014	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Endrin aldehyde	NA	NA	NA	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Endrin ketone	NA	NA	NA	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
gamma-BHC (Lindane)	0.1	1.3	0.1	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.002)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0021)
Heptachlor	0.38	2.1	0.042	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Heptachlor epoxide	NA	NA	NA	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Methoxychlor	NA	NA	NA	ND (0.0071)	ND (0.0069)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0068)	ND (0.0071)	ND (0.0071)	ND (0.0069)	ND (0.0069)	ND (0.0069)
Toxaphene	NA	NA	NA	ND (0.071)	ND (0.069)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.068)	ND (0.071)	ND (0.071)	ND (0.069)	ND (0.069)	ND (0.069)

TABLE 3
SUMMARY OF SOIL QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID Sample Depth (bgs)	Action Level													
	Restricted Use Soil Cleanup Objectives - Protection of Groundwater	NY Part 375 Restricted Residential Use Soil Cleanup Objectives	NY Part 375 Unrestricted Use Soil Cleanup Objectives	HA-SB-04 HA-SB-04_0-2 05/15/2024 460-304031-7 460-304032-3 0 - 2 (ft)	HA-SB-04 HA-SB-04_2-3 05/15/2024 460-304031-8 460-304032-4 2 - 3 (ft)	HA-SB-05 HA-SB-05_0-2 05/15/2024 460-304031-1 460-304032-1 0 - 2 (ft)	HA-SB-05 HA-SB-05_2-3 05/15/2024 460-304031-2 460-304032-2 2 - 3 (ft)	HA-SB-06 HA-SB-06_0-2 05/15/2024 460-304031-9 460-304032-9 0 - 2 (ft)	HA-SB-06 HA-SB-06_2-3 05/15/2024 460-304031-10 460-304032-10 2 - 3 (ft)	HA-SB-07 HA-SB-07_0-2 05/15/2024 460-304031-5 460-304032-7 0 - 2 (ft)	HA-SB-07 HA-SB-07_2-3 05/15/2024 460-304031-6 460-304032-8 2 - 3 (ft)	HA-SB-08 HA-SB-08_0-2 05/15/2024 460-304031-3 460-304032-5 0 - 2 (ft)	HA-SB-08 DUP-01_20240515 05/15/2024 460-304031-13 460-304032-12 0 - 2 (ft)	HA-SB-08 HA-SB-08_2-3 05/15/2024 460-304031-4 460-304032-6 2 - 3 (ft)
PFAS (ug/kg)														
11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.78)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NA	NA	NA	ND (4.91)	ND (4.69)	ND (5.03)	ND (4.64)	ND (4.95)	ND (4.87)	ND (5.23)	ND (4.97)	ND (4.55)	ND (4.89)	ND (4.77)
3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	NA	NA	NA	ND (4.91)	ND (4.69)	ND (5.03)	ND (4.64)	ND (4.95)	ND (4.87)	ND (5.23)	ND (4.97)	ND (4.55)	ND (4.89)	ND (4.77)
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NA	NA	NA	ND (0.98)	ND (0.94)	ND (1.01)	ND (0.93)	ND (0.99)	ND (0.97)	ND (1.05)	ND (0.99)	ND (0.91)	ND (0.98)	ND (0.95)
4,8-Dioxo-3H-Perfluorononanoic Acid (ADONA)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.78)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.78)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.75)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.78)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.78)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NetFOSAA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	NA	NA	NA	ND (1.96)	ND (1.87)	ND (2.01)	ND (1.85)	ND (1.98)	ND (1.95)	ND (2.09)	ND (1.99)	ND (1.82)	ND (1.95)	ND (1.91)
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	NA	NA	NA	ND (1.96)	ND (1.87)	ND (2.01)	ND (1.85)	ND (1.98)	ND (1.95)	ND (2.09)	ND (1.99)	ND (1.82)	ND (1.95)	ND (1.91)
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	NA	NA	NA	ND (0.39)	ND (0.37)	ND (0.4)	ND (0.37)	ND (0.4)	ND (0.39)	ND (0.42)	ND (0.4)	ND (0.36)	ND (0.39)	ND (0.38)
Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	NA	NA	NA	ND (0.39)	ND (0.37)	ND (0.4)	ND (0.37)	ND (0.4)	ND (0.39)	ND (0.42)	ND (0.4)	ND (0.36)	ND (0.39)	ND (0.38)
Perfluoro(4-methoxybutanoic) acid (PFMBA)	NA	NA	NA	ND (0.39)	ND (0.37)	ND (0.4)	ND (0.37)	ND (0.4)	ND (0.39)	ND (0.42)	ND (0.4)	ND (0.36)	ND (0.39)	ND (0.38)
Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.78)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
Perfluoro-3-methoxypropanoic acid (PFMPA)	NA	NA	NA	ND (0.39)	ND (0.37)	ND (0.4)	ND (0.37)	ND (0.4)	ND (0.39)	ND (0.42)	ND (0.4)	ND (0.36)	ND (0.39)	ND (0.38)
Perfluorobutanesulfonic acid (PFBS)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorobutanoic acid (PFBA)	NA	NA	NA	ND (0.79)	ND (0.75)	ND (0.81)	ND (0.74)	ND (0.79)	ND (0.78)	ND (0.84)	ND (0.79)	ND (0.73)	ND (0.78)	ND (0.76)
Perfluorodecanesulfonic acid (PFDS)	NA	NA	NA	0.081 J	ND (0.19)	ND (0.2)	ND (0.19)	0.32	0.5	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorodecanoic acid (PFDA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	0.17 J	0.1 J	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorododecane sulfonic acid (PFDodS)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorododecanoic acid (PFDodA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	0.049 J	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluoroheptanesulfonic acid (PFHpS)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluoroheptanoic acid (PFHpA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	0.068 J	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorohexanesulfonic acid (PFHxS)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorohexanoic acid (PFHxA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	0.064 J	0.084 J	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorononane sulfonic acid (PFNS)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorononanoic acid (PFNA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	0.068 J	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorooctane sulfonamide (PFOSA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorooctanesulfonic acid (PFOS)	1	44	0.88	0.16 J	0.059 J	ND (0.2)	ND (0.19)	0.84	0.9	0.23	0.16 J	0.1 J	0.1 J	ND (0.19)
Perfluorooctanoic acid (PFOA)	0.8	33	0.66	ND (0.2)	ND (0.19)	0.09 J	ND (0.19)	0.088 J	ND (0.19)	0.2 J	ND (0.2)	ND (0.18)	0.069 J	ND (0.19)
Perfluoropentanesulfonic acid (PFPeS)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluoropentanoic acid (PFPeA)	NA	NA	NA	ND (0.39)	ND (0.37)	ND (0.4)	ND (0.37)	ND (0.4)	ND (0.39)	ND (0.42)	ND (0.4)	ND (0.36)	ND (0.39)	ND (0.38)
Perfluorotetradecanoic acid (PFTeDA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluorotridecanoic acid (PFTrDA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)
Perfluoroundecanoic acid (PFUnDA)	NA	NA	NA	ND (0.2)	ND (0.19)	ND (0.2)	ND (0.19)	0.058 J	ND (0.19)	ND (0.21)	ND (0.2)	ND (0.18)	ND (0.2)	ND (0.19)

ABBREVIATIONS AND NOTES:

- mg/kg: milligram per kilogram
ug/kg: microgram per kilogram
- J-: Value is estimated, low bias.
bgs: below ground surface
ft: feet
J: Value is estimated.
NA: Not Applicable
ND (2.5): Not detected, number in parentheses is the laboratory reporting limit
- For test methods used, see the laboratory data sheets.
- Soil analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (SCO), Restricted-Use Residential SCOs, and Protection of Groundwater SCO's.
- **Bold italic** values indicate an exceedance of the Protection of Groundwater Criteria.
- Grey shading indicates an exceedance of the Unrestricted Use Soil Cleanup Objectives.
- Yellow shading indicates an exceedance of the Restricted Use Residential Soil Cleanup Objectives.

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level	MW-1	MW-1	MW-10	MW-10	MW-11	MW-11	MW-12	MW-12	MW-15	MW-15	MW-16	MW-16	MW-17	MW-17
	New York TOGS	MW-1_20240523	MW-1_20240528	MW-10_20240524	MW-10_20240528	MW-11_20240523	MW-11_20240528	MW-12_20240523	MW-12_20240528	MW-15_20240524	MW-15_20240528	MW-16_20240524	MW-16_20240528	MW-17_20240524	MW-17_20240528
	111 Ambient	05/23/2024	05/28/2024	05/24/2024	05/28/2024	05/23/2024	05/28/2024	05/23/2024	05/28/2024	05/24/2024	05/28/2024	05/24/2024	05/28/2024	05/24/2024	05/28/2024
	Water Quality Standards	460-304523-2	460-304523-2	460-304646-2	460-304646-2	460-304523-5	460-304523-5	460-304523-1	460-304523-1	460-304646-5	460-304646-5	460-304646-4	460-304646-4	460-304646-1	460-304646-1
	Lab Sample ID	460-304541-2	460-304788-1	460-304647-2	460-304788-11	460-304541-5	460-304788-5	460-304541-1	460-304788-6	460-304647-5	460-304788-7	460-304647-4	460-304788-8	460-304647-1	460-304788-9
Volatile Organic Compounds (ug/L)															
1,1,1-Trichloroethane	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	120	-
1,1,2,2-Tetrachloroethane	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,1,2-Trichloroethane	1	ND (1)	-	ND (1)	-	1.2 J	-	ND (1)	-	ND (1)	-	ND (1)	-	3.2 J	-
1,1-Dichloroethane	5	1.1	-	ND (1)	-	910	-	ND (1)	-	33	-	0.3 J	-	870	-
1,1-Dichloroethene	5	0.93 J	-	ND (1)	-	310	-	ND (1)	-	14	-	0.87 J	-	820	-
1,2,3-Trichlorobenzene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,2,4-Trichlorobenzene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,2,4-Trimethylbenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	0.04	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,2-Dichlorobenzene	3	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	6.8	-
1,2-Dichloroethane	0.6	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,2-Dichloropropane	1	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,3,5-Trimethylbenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	3	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
1,4-Dichlorobenzene	3	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
2-Butanone (Methyl Ethyl Ketone)	50	ND (5)	-	ND (5)	-	ND (10)	-	ND (5)	-	ND (5)	-	ND (5)	-	ND (25)	-
2-Hexanone (Methyl Butyl Ketone)	50	ND (5)	-	ND (5)	-	ND (10)	-	ND (5)	-	ND (5)	-	ND (5)	-	ND (25)	-
2-Phenylbutane (sec-Butylbenzene)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	ND (5)	-	ND (5)	-	ND (10)	-	ND (5)	-	ND (5)	-	ND (5)	-	ND (25)	-
Acetone	50	ND (5)	-	ND (5)	-	ND (10)	-	ND (5)	-	5.7	-	ND (5)	-	ND (25)	-
Benzene	1	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	14	-	ND (1)	-	ND (5)	-
Bromodichloromethane	50	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Bromoform	50	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Bromomethane (Methyl Bromide)	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Carbon disulfide	60	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Carbon tetrachloride	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Chlorobenzene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	0.44 J	-	ND (1)	-	10	-
Chlorobromomethane	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Chloroethane	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	43	-	ND (1)	-	ND (5)	-
Chloroform (Trichloromethane)	7	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Chloromethane (Methyl Chloride)	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
cis-1,2-Dichloroethene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
cis-1,3-Dichloropropene	0.4	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Cyclohexane	NA	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Dibromochloromethane	50	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Dichlorodifluoromethane (CFC-12)	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Ethylbenzene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	0.94 J	-	ND (1)	-	ND (5)	-
Isopropylbenzene (Cumene)	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	0.39 J	-	ND (1)	-	ND (5)	-
m,p-Xylenes	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	2	-	ND (1)	-	ND (5)	-
Methyl acetate	NA	ND (5)	-	ND (5)	-	ND (10)	-	ND (5)	-	ND (5)	-	ND (5)	-	ND (25)	-
Methyl Tert Butyl Ether (MTBE)	10	3.1	-	ND (1)	-	1.2 J	-	ND (1)	-	0.49 J	-	0.25 J	-	5.1	-
Methylcyclohexane	NA	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Methylene chloride (Dichloromethane)	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
n-Butylbenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	2.9	-	ND (1)	-	ND (5)	-
Styrene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
tert-Butylbenzene	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	6.2	-
Toluene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	0.79 J	-	ND (1)	-	ND (5)	-
trans-1,2-Dichloroethene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
trans-1,3-Dichloropropene	0.4	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Trichloroethene	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Trichlorofluoromethane (CFC-11)	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Trifluorotrichloroethane (Freon 113)	5	ND (1)	-	ND (1)	-	ND (2)	-	ND (1)	-	ND (1)	-	ND (1)	-	ND (5)	-
Vinyl chloride	2	ND (1)	-	ND (1)	-	20	-	ND (1)	-	6.5	-	ND (1)	-	42	-
Xylene (Total)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level	MW-1	MW-1	MW-10	MW-10	MW-11	MW-11	MW-12	MW-12	MW-15	MW-15	MW-16	MW-16	MW-17	MW-17
	New York TOGS	MW-1_20240523	MW-1_20240528	MW-10_20240524	MW-10_20240528	MW-11_20240523	MW-11_20240528	MW-12_20240523	MW-12_20240528	MW-15_20240524	MW-15_20240528	MW-16_20240524	MW-16_20240528	MW-17_20240524	MW-17_20240528
	111 Ambient	05/23/2024	05/28/2024	05/24/2024	05/28/2024	05/23/2024	05/28/2024	05/23/2024	05/28/2024	05/24/2024	05/28/2024	05/24/2024	05/28/2024	05/24/2024	05/28/2024
	Water Quality Standards	460-304523-2	460-304523-2	460-304523-2	460-304523-2	460-304523-5	460-304523-5	460-304523-1	460-304523-1	460-304646-5	460-304646-5	460-304646-4	460-304646-4	460-304646-1	460-304646-1
Inorganic Compounds (ug/L)															
Aluminum, Dissolved	NA	-	ND (40)	-	ND (40)	-	ND (40)	-	ND (40)	-	ND (40)	-	37.4 J	-	ND (40)
Antimony, Dissolved	3	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	0.92 J	-	ND (2)	-	ND (2)
Arsenic, Dissolved	25	-	ND (2)	-	ND (2)	-	ND (2)	-	2.3	-	ND (2)	-	4	-	ND (2)
Barium, Dissolved	1000	-	249	-	31.7	-	62.7	-	51.6	-	46.7	-	7.8	-	160
Beryllium, Dissolved	3	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)
Cadmium, Dissolved	5	-	ND (2)	-	0.5 J	-	ND (2)	-	4.1	-	ND (2)	-	ND (2)	-	8.7
Calcium, Dissolved	NA	-	122000	-	53300	-	93600	-	55600	-	81000	-	6760	-	222000
Chromium, Dissolved	50	-	ND (4)	-	ND (4)	-	ND (4)	-	ND (4)	-	ND (4)	-	ND (4)	-	ND (4)
Cobalt, Dissolved	NA	-	3.5 J	-	26.6	-	61	-	3.8 J	-	3.3 J	-	ND (4)	-	536
Copper, Dissolved	200	-	ND (4)	-	23.2	-	44.5	-	2.9 J	-	ND (4)	-	ND (4)	-	445
Iron, Dissolved	300	-	ND (120)	-	ND (120)	-	310	-	ND (120)	-	664	-	86.6 J	-	192
Lead, Dissolved	25	-	ND (1.2)	-	ND (1.2)	-	8.4	-	ND (1.2)	-	4.8	-	1.7	-	2.9
Magnesium, Dissolved	35000	-	36100	-	16000	-	31900	-	7150	-	20200	-	1850	-	94800
Manganese, Dissolved	300	-	4450	-	382	-	297	-	910	-	2530	-	104	-	7830
Mercury, Dissolved	0.7	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)
Nickel, Dissolved	100	-	11.5	-	29.5	-	360	-	18.2	-	87.5	-	5.2	-	594
Potassium, Dissolved	NA	-	13500	-	4000	-	6710	-	27900	-	5660	-	28100	-	3350
Selenium, Dissolved	10	-	ND (2.5)	-	3.1	-	ND (2.5)	-	ND (2.5)	-	ND (2.5)	-	0.71 J	-	0.59 J
Silver, Dissolved	50	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)	-	ND (2)
Sodium, Dissolved	20000	-	127000	-	47700	-	77800	-	51700	-	72500	-	121000	-	208000
Thallium, Dissolved	0.5	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)
Vanadium, Dissolved	NA	-	ND (4)	-	ND (4)	-	ND (4)	-	ND (4)	-	2 J	-	9.5	-	ND (4)
Zinc, Dissolved	2000	-	ND (16)	-	ND (16)	-	41.4	-	ND (16)	-	9.6 J	-	ND (16)	-	104
Aluminum, Total	NA	2250	-	275	-	2010	-	6210	-	3300	-	7860	-	6910	-
Antimony, Total	3	ND (4)	-	ND (2)	-	ND (4)	-	ND (4)	-	2.5	-	0.52 J	-	ND (2)	-
Arsenic, Total	25	ND (4)	-	ND (2)	-	ND (4)	-	4.7	-	1.4 J	-	6	-	1.8 J	-
Barium, Total	1000	212	-	60.2	-	70	-	150	-	89.7	-	98.2	-	188	-
Beryllium, Total	3	ND (1.6)	-	ND (0.8)	-	ND (1.6)	-	ND (1.6)	-	ND (0.8)	-	0.37 J	-	0.27 J	-
Cadmium, Total	5	ND (4)	-	ND (2)	-	5.5	-	ND (4)	-	ND (2)	-	ND (2)	-	8.8	-
Calcium, Total	NA	104000	-	47600	-	95100	-	62100	-	84600	-	24000	-	217000	-
Chromium, Total	50	4.7 J	-	ND (4)	-	7.9 J	-	15.5	-	7.3	-	18.2	-	17.6	-
Cobalt, Total	NA	3.1 J	-	1.1 J	-	101	-	5.4 J	-	4.1	-	4.3	-	512	-
Copper, Total	200	10.2	-	3.8 J	-	16.4	-	22.2	-	8.4 J	-	50.5 J	-	415 J	-
Iron, Total	300	6640	-	421 J	-	5210	-	12500	-	6400 J	-	10200 J	-	8600 J	-
Lead, Total	25	2.5	-	1.2	-	8.1	-	4.7	-	21.4	-	79.1	-	8.4	-
Magnesium, Total	35000	36900	-	12800	-	43800	-	12000	-	18800	-	8390	-	93500	-
Manganese, Total	300	5870	-	1870	-	2610	-	1970	-	2390	-	404	-	7820	-
Mercury, Total	0.7	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	0.77	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-
Nickel, Total	100	6.5 J	-	1.9 J	-	547	-	10	-	66.2	-	13.4	-	595	-
Potassium, Total	NA	5640	-	3940	-	4560	-	23600	-	6820	-	18000	-	3850	-
Selenium, Total	10	ND (5) J	-	3.2	-	ND (5) J	-	ND (5) J	-	ND (2.5)	-	ND (2.5)	-	ND (2.5)	-
Silver, Total	50	ND (4)	-	ND (2)	-	ND (4)	-	ND (4)	-	ND (2)	-	ND (2)	-	ND (2)	-
Sodium, Total	20000	113000	-	40500	-	72400	-	59800	-	72200	-	97300	-	202000	-
Thallium, Total	0.5	ND (1.6)	-	ND (0.8)	-	ND (1.6)	-	ND (1.6)	-	ND (0.8)	-	ND (0.8)	-	ND (0.8)	-
Vanadium, Total	NA	6 J	-	1.5 J	-	8.7	-	19.3	-	11.2	-	25.3	-	19.3	-
Zinc, Total	2000	15.2 J	-	7 J	-	91.5	-	28 J	-	22.5 J	-	46.2 J	-	102 J	-
PCBs (ug/L)															
Aroclor-1016 (PCB-1016)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1221 (PCB-1221)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1232 (PCB-1232)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1242 (PCB-1242)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1248 (PCB-1248)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1254 (PCB-1254)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1260 (PCB-1260)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1262 (PCB-1262)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Aroclor-1268 (PCB-1268)	NA	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-
Polychlorinated biphenyls (PCBs)	0.09	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level	MW-1	MW-1	MW-10	MW-10	MW-11	MW-11	MW-12	MW-12	MW-15	MW-15	MW-16	MW-16	MW-17	MW-17
	New York TOGS	MW-1_20240523	MW-1_20240528	MW-10_20240524	MW-10_20240528	MW-11_20240523	MW-11_20240528	MW-12_20240523	MW-12_20240528	MW-15_20240524	MW-15_20240528	MW-16_20240524	MW-16_20240528	MW-17_20240524	MW-17_20240528
	111 Ambient Water Quality Standards	05/23/2024 460-304523-2 460-304541-2	05/28/2024	05/24/2024 460-304646-2 460-304647-2	05/28/2024	05/23/2024 460-304523-5 460-304541-5	05/28/2024	05/23/2024 460-304523-1 460-304541-1	05/28/2024	05/24/2024 460-304646-5 460-304647-5	05/28/2024	05/24/2024 460-304646-4 460-304647-4	05/28/2024	05/24/2024 460-304646-1 460-304647-1	05/28/2024
Pesticides (ug/L)															
4,4'-DDD	0.3	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
4,4'-DDE	0.2	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
4,4'-DDT	0.2	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Aldrin	0	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
alpha-BHC	0.01	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
beta-BHC	0.04	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Chlordane	0.05	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-
delta-BHC	0.04	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Dieldrin	0.004	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Endosulfan I	NA	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Endosulfan II	NA	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Endosulfan sulfate	NA	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Endrin	0	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Endrin aldehyde	5	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Endrin ketone	5	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
gamma-BHC (Lindane)	0.05	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Heptachlor	0.04	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Heptachlor epoxide	0.03	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Methoxychlor	35	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-	ND (0.02)	-
Toxaphene	0.06	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-
PFAS (ng/L)															
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NA	ND (19) J	-	ND (6)	-	ND (18) J	-	ND (16) J	-	ND (23) J	-	ND (22) J	-	ND (22) J	-
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NA	ND (120) J	-	ND (37)	-	ND (110) J	-	ND (100) J	-	ND (140) J	-	ND (140) J	-	ND (140) J	-
3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	NA	ND (120) J	-	ND (37)	-	ND (110) J	-	ND (100) J	-	ND (140) J	-	ND (140) J	-	ND (140) J	-
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NA	ND (24) J	-	ND (7.4)	-	ND (22) J	-	ND (20) J	-	ND (29) J	-	ND (27) J	-	ND (28) J	-
4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	NA	ND (19) J	-	ND (6)	-	ND (18) J	-	ND (16) J	-	ND (23) J	-	ND (22) J	-	ND (22) J	-
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NA	ND (19) J	-	ND (6)	-	ND (18) J	-	ND (16) J	-	ND (23) J	-	ND (22) J	-	ND (22) J	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	40 J	-	ND (6)	-	ND (18) J	-	25 J	-	ND (23) J	-	26 J	-	ND (22) J	-
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	ND (19) J	-	ND (6)	-	ND (18) J	-	ND (16) J	-	ND (23) J	-	ND (22) J	-	ND (22) J	-
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NA	ND (19) J	-	ND (6)	-	ND (18) J	-	ND (16) J	-	ND (23) J	-	ND (22) J	-	ND (22) J	-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NetFOSAA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	NA	ND (48) J	-	ND (15)	-	ND (45) J	-	ND (40) J	-	ND (58) J	-	ND (54) J	-	ND (55) J	-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	NA	ND (48) J	-	ND (15)	-	ND (45) J	-	ND (40) J	-	ND (58) J	-	ND (54) J	-	ND (55) J	-
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	ND (9.6) J	-	ND (3)	-	ND (8.9) J	-	ND (8) J	-	ND (12) J	-	ND (11) J	-	ND (11) J	-
Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	NA	ND (9.6) J	-	ND (3)	-	ND (8.9) J	-	ND (8) J	-	ND (12) J	-	ND (11) J	-	ND (11) J	-
Perfluoro(4-methoxybutanoic) acid (PFMBA)	NA	ND (9.6) J	-	ND (3)	-	ND (8.9) J	-	ND (8) J	-	ND (12) J	-	ND (11) J	-	ND (11) J	-
Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	NA	ND (19) J	-	ND (6)	-	ND (18) J	-	ND (16) J	-	ND (23) J	-	ND (22) J	-	ND (22) J	-
Perfluoro-3-methoxypropanoic acid (PFMPA)	NA	ND (9.6) J	-	ND (3)	-	ND (8.9) J	-	ND (8) J	-	ND (12) J	-	ND (11) J	-	ND (11) J	-
Perfluorobutanesulfonic acid (PFBS)	NA	ND (4.8) J	-	3.1	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	7.1 J	-
Perfluorobutanoic acid (PFBA)	NA	38 J	-	13	-	ND (18) J	-	28 J	-	ND (23) J	-	33 J	-	25 J	-
Perfluorodecanesulfonic acid (PFDS)	NA	ND (4.8) J	-	26	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluorodecanoic acid (PFDA)	NA	5.1 J	-	ND (1.5)	-	ND (4.5) J	-	13 J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluorododecane sulfonic acid (PFDdS)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluorododecanoic acid (PFDdA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluoroheptanesulfonic acid (PFHpS)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluoroheptanoic acid (PFHpA)	NA	37 J	-	12	-	14 J	-	32 J	-	25 J	-	36 J	-	14 J	-
Perfluorohexanesulfonic acid (PFHxS)	NA	ND (4.8) J	-	ND (1.5)	-	7.8 J	-	14 J	-	13 J	-	ND (5.4) J	-	7.6 J	-
Perfluorohexanoic acid (PFHxA)	NA	43 J	-	14	-	20 J	-	36 J	-	31 J	-	49 J	-	21 J	-
Perfluorononane sulfonic acid (PFNS)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluorononanoic acid (PFNA)	NA	12 J	-	5.4	-	ND (4.5) J	-	16 J	-	8.9 J	-	8.4 J	-	ND (5.5) J	-
Perfluorooctane sulfonamide (PFOSA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluorooctanesulfonic acid (PFOS)	2.7	19 J	-	15	-	46 J	-	72 J	-	19 J	-	52 J	-	19 J	-
Perfluorooctanoic acid (PFOA)	6.7	75 J	-	24	-	46 J	-	47 J	-	79 J	-	42 J	-	73 J	-
Perfluoropentanesulfonic acid (PFPeS)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluoropentanoic acid (PFPeA)	NA	39 J	-	16	-	28 J	-	48 J	-	43 J	-	65 J	-	20 J	-
Perfluorotetradecanoic acid (PFTeDA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluorotridecanoic acid (PFTrDA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-
Perfluoroundecanoic acid (PFUnDA)	NA	ND (4.8) J	-	ND (1.5)	-	ND (4.5) J	-	ND (4) J	-	ND (5.8) J	-	ND (5.4) J	-	ND (5.5) J	-

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level	MW-1	MW-1	MW-10	MW-10	MW-11	MW-11	MW-12	MW-12	MW-15	MW-15	MW-16	MW-16	MW-17	MW-17
	New York TOGS	MW-1_20240523	MW-1_20240528	MW-10_20240524	MW-10_20240528	MW-11_20240523	MW-11_20240528	MW-12_20240523	MW-12_20240528	MW-15_20240524	MW-15_20240528	MW-16_20240524	MW-16_20240528	MW-17_20240524	MW-17_20240528
	111 Ambient	05/23/2024	05/28/2024	05/24/2024	05/28/2024	05/23/2024	05/28/2024	05/23/2024	05/28/2024	05/24/2024	05/28/2024	05/24/2024	05/28/2024	05/24/2024	05/28/2024
	Water Quality Standards	460-304523-2	460-304788-1	460-304646-2	460-304788-11	460-304523-5	460-304788-5	460-304523-1	460-304541-1	460-304646-5	460-304788-7	460-304646-4	460-304647-4	460-304646-1	460-304647-1
Semi-Volatile Organic Compounds (SIM) (ug/L)															
1,4-Dioxane	0.35	0.26	-	ND (0.2)	-	9	-	ND (0.2)	-	2	-	0.13 J	-	5.4	-

ABBREVIATIONS AND NOTES:
µg/L: micrograms per liter
ng/L: nanogram per liter

J: Value is estimated.
NA: Not Applicable
ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- For test methods used, see the laboratory data sheets.
- Water analytical results are compared to the New York TOGS 111 Ambient Water Quality Standards.
- Bold indicates an exceedance of AWQS criteria.

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level						
	New York TOGS	MW-2	MW-2	MW-2	MW-2	MW-8	MW-8
	111 Ambient	MW-2_20240523	DUP-01_20240523	MW-2_20240528	DUP-01_20240528	MW-8_20240524	MW-8_20240528
	Water Quality Standards	05/23/2024 460-304523-3 460-304541-3	05/23/2024 460-304523-4 460-304541-4	05/28/2024	05/28/2024	05/24/2024 460-304646-3 460-304647-3	05/28/2024
Volatile Organic Compounds (ug/L)							
1,1,1-Trichloroethane	5	2500	2700	-	-	ND (1)	-
1,1,2,2-Tetrachloroethane	5	ND (10)	ND (10)	-	-	ND (1)	-
1,1,2-Trichloroethane	1	3.5 J	3.5 J	-	-	ND (1)	-
1,1-Dichloroethane	5	1600	1700	-	-	ND (1)	-
1,1-Dichloroethene	5	1300	1400	-	-	ND (1)	-
1,2,3-Trichlorobenzene	5	ND (10)	ND (10)	-	-	ND (1)	-
1,2,4-Trichlorobenzene	5	ND (10)	ND (10)	-	-	ND (1)	-
1,2,4-Trimethylbenzene	5	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	0.04	ND (10)	ND (10)	-	-	ND (1)	-
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	ND (10)	ND (10)	-	-	ND (1)	-
1,2-Dichlorobenzene	3	4.6 J	4.4 J	-	-	ND (1)	-
1,2-Dichloroethane	0.6	ND (10)	ND (10)	-	-	ND (1)	-
1,2-Dichloropropane	1	ND (10)	ND (10)	-	-	ND (1)	-
1,3,5-Trimethylbenzene	5	-	-	-	-	-	-
1,3-Dichlorobenzene	3	ND (10)	ND (10)	-	-	ND (1)	-
1,4-Dichlorobenzene	3	ND (10)	ND (10)	-	-	ND (1)	-
2-Butanone (Methyl Ethyl Ketone)	50	ND (50)	ND (50)	-	-	ND (5)	-
2-Hexanone (Methyl Butyl Ketone)	50	ND (50)	ND (50)	-	-	ND (5)	-
2-Phenylbutane (sec-Butylbenzene)	5	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	ND (50)	ND (50)	-	-	ND (5)	-
Acetone	50	ND (50)	ND (50)	-	-	ND (5)	-
Benzene	1	ND (10)	ND (10)	-	-	ND (1)	-
Bromodichloromethane	50	ND (10)	ND (10)	-	-	ND (1)	-
Bromoform	50	ND (10)	ND (10)	-	-	ND (1)	-
Bromomethane (Methyl Bromide)	5	ND (10)	ND (10)	-	-	ND (1)	-
Carbon disulfide	60	ND (10)	ND (10)	-	-	ND (1)	-
Carbon tetrachloride	5	ND (10)	ND (10)	-	-	ND (1)	-
Chlorobenzene	5	13	14	-	-	ND (1)	-
Chlorobromomethane	5	ND (10)	ND (10)	-	-	ND (1)	-
Chloroethane	5	16	17	-	-	ND (1)	-
Chloroform (Trichloromethane)	7	ND (10)	ND (10)	-	-	ND (1)	-
Chloromethane (Methyl Chloride)	5	ND (10)	ND (10)	-	-	ND (1)	-
cis-1,2-Dichloroethene	5	ND (10)	ND (10)	-	-	ND (1)	-
cis-1,3-Dichloropropene	0.4	ND (10)	ND (10)	-	-	ND (1)	-
Cyclohexane	NA	ND (10)	ND (10)	-	-	ND (1)	-
Dibromochloromethane	50	ND (10)	ND (10)	-	-	ND (1)	-
Dichlorodifluoromethane (CFC-12)	5	ND (10)	ND (10)	-	-	ND (1)	-
Ethylbenzene	5	ND (10)	ND (10)	-	-	ND (1)	-
Isopropylbenzene (Cumene)	5	ND (10)	ND (10)	-	-	0.77 J	-
m,p-Xylenes	5	ND (10)	ND (10)	-	-	ND (1)	-
Methyl acetate	NA	ND (50)	ND (50)	-	-	ND (5)	-
Methyl Tert Butyl Ether (MTBE)	10	2.3 J	2.4 J	-	-	ND (1)	-
Methylcyclohexane	NA	ND (10)	ND (10)	-	-	ND (1)	-
Methylene chloride (Dichloromethane)	5	ND (10)	ND (10)	-	-	ND (1)	-
n-Butylbenzene	5	-	-	-	-	-	-
n-Propylbenzene	5	-	-	-	-	-	-
o-Xylene	5	ND (10)	ND (10)	-	-	ND (1)	-
Styrene	5	ND (10)	ND (10)	-	-	ND (1)	-
tert-Butylbenzene	5	-	-	-	-	-	-
Tetrachloroethene	5	10	11	-	-	ND (1)	-
Toluene	5	ND (10)	ND (10)	-	-	ND (1)	-
trans-1,2-Dichloroethene	5	ND (10)	ND (10)	-	-	ND (1)	-
trans-1,3-Dichloropropene	0.4	ND (10)	ND (10)	-	-	ND (1)	-
Trichloroethene	5	ND (10)	ND (10)	-	-	ND (1)	-
Trichlorofluoromethane (CFC-11)	5	ND (10)	ND (10)	-	-	ND (1)	-
Trifluorotrichloroethane (Freon 113)	5	ND (10)	ND (10)	-	-	ND (1)	-
Vinyl chloride	2	41	47	-	-	ND (1)	-
Xylene (Total)	5	-	-	-	-	-	-

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level						
	New York TOGS	MW-2	MW-2	MW-2	MW-2	MW-8	MW-8
	111 Ambient	MW-2_20240523	DUP-01_20240523	MW-2_20240528	DUP-01_20240528	MW-8_20240524	MW-8_20240528
	Water Quality Standards	05/23/2024 460-304523-3 460-304541-3	05/23/2024 460-304523-4 460-304541-4	05/28/2024 460-304788-2	05/28/2024 460-304788-3	05/24/2024 460-304646-3 460-304647-3	05/28/2024 460-304788-4
Semi-Volatile Organic Compounds (ug/L)							
1,2,4,5-Tetrachlorobenzene	5	ND (10)	ND (10)	-	-	ND (10)	-
2,2'-oxybis(1-Chloropropane)	5	ND (10)	ND (10)	-	-	ND (10)	-
2,3,4,6-Tetrachlorophenol	NA	ND (10)	ND (10)	-	-	ND (10)	-
2,4,5-Trichlorophenol	NA	ND (10)	ND (10)	-	-	ND (10)	-
2,4,6-Trichlorophenol	NA	ND (10)	ND (10)	-	-	ND (10)	-
2,4-Dichlorophenol	5	ND (10)	ND (10) J	-	-	ND (10)	-
2,4-Dimethylphenol	50	ND (10)	ND (10) J	-	-	ND (10)	-
2,4-Dinitrophenol	10	ND (40)	ND (40)	-	-	ND (40)	-
2,4-Dinitrotoluene	5	ND (10)	ND (10)	-	-	ND (10)	-
2,6-Dinitrotoluene	5	ND (2)	ND (2)	-	-	ND (2)	-
2-Chloronaphthalene	10	ND (10)	ND (10)	-	-	ND (10)	-
2-Chlorophenol	NA	ND (10)	ND (10) J	-	-	ND (10)	-
2-Methylnaphthalene	NA	ND (10)	ND (10)	-	-	ND (10)	-
2-Methylphenol (o-Cresol)	NA	ND (10)	ND (10) J	-	-	ND (10)	-
2-Nitroaniline	5	ND (10)	ND (10)	-	-	ND (10)	-
2-Nitrophenol	NA	ND (10)	ND (10) J	-	-	ND (10)	-
3,3'-Dichlorobenzidine	5	ND (10) J	ND (10)	-	-	ND (10)	-
3-Nitroaniline	5	ND (10)	ND (10)	-	-	ND (10)	-
4,6-Dinitro-2-methylphenol	NA	ND (20)	ND (20)	-	-	ND (20)	-
4-Bromophenyl phenyl ether (BDE-3)	NA	ND (10)	ND (10)	-	-	ND (10)	-
4-Chloro-3-methylphenol	NA	ND (10)	ND (10) J	-	-	ND (10)	-
4-Chloroaniline	5	ND (10) J	ND (10)	-	-	ND (10)	-
4-Chlorophenyl phenyl ether	NA	ND (10)	ND (10)	-	-	ND (10)	-
4-Methylphenol	NA	ND (10)	ND (10) J	-	-	ND (10)	-
4-Nitroaniline	5	ND (10)	ND (10)	-	-	ND (10)	-
4-Nitrophenol	NA	ND (20)	ND (20)	-	-	ND (20)	-
Acenaphthene	20	9.4 J	11	-	-	1.6 J	-
Acenaphthylene	NA	ND (10)	ND (10)	-	-	ND (10)	-
Acetophenone	NA	ND (10)	ND (10)	-	-	ND (10)	-
Anthracene	50	ND (10)	ND (10)	-	-	ND (10)	-
Atrazine	7.5	ND (2)	ND (2)	-	-	ND (2)	-
Benzaldehyde	NA	ND (10)	ND (10)	-	-	ND (10)	-
Benzo(a)anthracene	0.002	ND (1)	ND (1)	-	-	ND (1)	-
Benzo(a)pyrene	0	ND (1)	ND (1)	-	-	ND (1)	-
Benzo(b)fluoranthene	0.002	ND (2)	ND (2)	-	-	ND (2)	-
Benzo(g,h,i)perylene	NA	ND (10)	ND (10)	-	-	ND (10)	-
Benzo(k)fluoranthene	0.002	ND (1)	ND (1)	-	-	ND (1)	-
Biphenyl	5	ND (10)	ND (10)	-	-	ND (10)	-
bis(2-Chloroethoxy)methane	5	ND (10)	ND (10)	-	-	ND (10)	-
bis(2-Chloroethyl)ether	1	ND (1)	ND (1)	-	-	ND (1)	-
bis(2-Ethylhexyl)phthalate	5	ND (2)	2.3	-	-	ND (2)	-
Butyl benzylphthalate (BBP)	50	ND (10)	ND (10)	-	-	ND (10)	-
Caprolactam	NA	ND (10)	ND (10)	-	-	ND (10)	-
Carbazole	NA	ND (10)	ND (10)	-	-	ND (10)	-
Chrysene	0.002	ND (2)	ND (2)	-	-	ND (2)	-
Dibenz[a,h]anthracene	NA	ND (1)	ND (1)	-	-	ND (1)	-
Dibenzofuran	NA	ND (10)	ND (10)	-	-	1.3 J	-
Diethyl phthalate	50	ND (10)	ND (10)	-	-	ND (10)	-
Dimethyl phthalate	50	ND (10)	ND (10)	-	-	ND (10)	-
Di-n-butylphthalate (DBP)	50	ND (10)	ND (10)	-	-	ND (10)	-
Di-n-octyl phthalate (DnOP)	50	ND (10)	ND (10)	-	-	ND (10)	-
Fluoranthene	50	ND (10)	ND (10)	-	-	ND (10)	-
Fluorene	50	ND (10)	ND (10)	-	-	2 J	-
Hexachlorobenzene	0.04	ND (1)	ND (1)	-	-	ND (1)	-
Hexachlorobutadiene	0.5	ND (1)	ND (1)	-	-	ND (1)	-
Hexachlorocyclopentadiene	5	ND (10)	ND (10)	-	-	ND (10)	-
Hexachloroethane	5	ND (2)	ND (2)	-	-	ND (2)	-
Indeno(1,2,3-cd)pyrene	0.002	ND (2)	ND (2)	-	-	ND (2)	-
Isophorone	50	ND (10)	ND (10)	-	-	ND (10)	-
Naphthalene	10	ND (2)	ND (2)	-	-	ND (2)	-
Nitrobenzene	0.4	ND (1)	ND (1)	-	-	ND (1)	-
N-Nitrosodi-n-propylamine	NA	ND (1)	ND (1)	-	-	ND (1)	-
N-Nitrosodiphenylamine	50	ND (10)	ND (10)	-	-	ND (10)	-
Pentachlorophenol	1	ND (20)	ND (20)	-	-	ND (20)	-
Phenanthrene	50	ND (10)	ND (10)	-	-	1.9 J	-
Phenol	1	ND (10)	ND (10) J	-	-	ND (10)	-
Pyrene	50	ND (10)	ND (10)	-	-	ND (10)	-

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level						
	New York TOGS	MW-2	MW-2	MW-2	MW-2	MW-8	MW-8
	111 Ambient	MW-2_20240523	DUP-01_20240523	MW-2_20240528	DUP-01_20240528	MW-8_20240524	MW-8_20240528
	Water Quality Standards	05/23/2024 460-304523-3 460-304541-3	05/23/2024 460-304523-4 460-304541-4	05/28/2024	05/28/2024	05/24/2024 460-304646-3 460-304647-3	05/28/2024
Inorganic Compounds (ug/L)							
Aluminum, Dissolved	NA	-	-	ND (40)	ND (40)	-	ND (40)
Antimony, Dissolved	3	-	-	ND (2)	ND (2)	-	ND (2)
Arsenic, Dissolved	25	-	-	ND (2)	1.3 J	-	ND (2)
Barium, Dissolved	1000	-	-	59	65.3	-	237
Beryllium, Dissolved	3	-	-	ND (0.8)	ND (0.8)	-	ND (0.8)
Cadmium, Dissolved	5	-	-	1.6 J	1.3 J	-	ND (2)
Calcium, Dissolved	NA	-	-	88600	92700	-	223000
Chromium, Dissolved	50	-	-	ND (4)	ND (4)	-	ND (4)
Cobalt, Dissolved	NA	-	-	60.3	59.8	-	3 J
Copper, Dissolved	200	-	-	18.8 J	23.3 J	-	ND (4)
Iron, Dissolved	300	-	-	142	156	-	ND (120)
Lead, Dissolved	25	-	-	1.8	1.6	-	ND (1.2)
Magnesium, Dissolved	35000	-	-	31200	30400	-	26400
Manganese, Dissolved	300	-	-	1750	2150	-	5860
Mercury, Dissolved	0.7	-	-	ND (0.2)	ND (0.2)	-	ND (0.2)
Nickel, Dissolved	100	-	-	237	222	-	11
Potassium, Dissolved	NA	-	-	16200	15500	-	5060
Selenium, Dissolved	10	-	-	0.82 J	ND (2.5)	-	ND (2.5)
Silver, Dissolved	50	-	-	ND (2)	ND (2)	-	ND (2)
Sodium, Dissolved	20000	-	-	107000	108000	-	409000
Thallium, Dissolved	0.5	-	-	ND (0.8)	ND (0.8)	-	ND (0.8)
Vanadium, Dissolved	NA	-	-	2.3 J	2.2 J	-	ND (4)
Zinc, Dissolved	2000	-	-	17.2	18.7	-	ND (16)
Aluminum, Total	NA	902	651	-	-	-	408
Antimony, Total	3	ND (2)	ND (4)	-	-	-	ND (2)
Arsenic, Total	25	2.8	ND (4)	-	-	-	1.8 J
Barium, Total	1000	105	92.1	-	-	-	319
Beryllium, Total	3	ND (0.8)	ND (1.6)	-	-	-	ND (0.8)
Cadmium, Total	5	0.83 J	0.99 J	-	-	-	ND (2)
Calcium, Total	NA	97300	94800	-	-	-	243000
Chromium, Total	50	2.9 J	ND (8)	-	-	-	ND (4)
Cobalt, Total	NA	62	58.3	-	-	-	0.73 J
Copper, Total	200	33.5	29	-	-	-	ND (4)
Iron, Total	300	4990	3580	-	-	-	8980
Lead, Total	25	2.8	2.7	-	-	-	1.1 J
Magnesium, Total	35000	33400	32500	-	-	-	26700
Manganese, Total	300	3790	3350	-	-	-	6550
Mercury, Total	0.7	0.35	0.21	-	-	-	ND (0.2)
Nickel, Total	100	272	251	-	-	-	1.5 J
Potassium, Total	NA	23600	22100	-	-	-	4400
Selenium, Total	10	0.46 J	ND (5) J	-	-	-	0.67 J
Silver, Total	50	ND (2)	ND (4)	-	-	-	ND (2)
Sodium, Total	20000	139000	134000	-	-	-	427000
Thallium, Total	0.5	ND (0.8)	ND (1.6)	-	-	-	ND (0.8)
Vanadium, Total	NA	7.2	6.3 J	-	-	-	2.3 J
Zinc, Total	2000	25	24.4 J	-	-	-	ND (16)
PCBs (ug/L)							
Aroclor-1016 (PCB-1016)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1221 (PCB-1221)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1232 (PCB-1232)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1242 (PCB-1242)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1248 (PCB-1248)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1254 (PCB-1254)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1260 (PCB-1260)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1262 (PCB-1262)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Aroclor-1268 (PCB-1268)	NA	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-
Polychlorinated biphenyls (PCBs)	0.09	ND (0.4)	ND (0.4)	-	-	ND (0.4)	-

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level						
	New York TOGS	MW-2	MW-2	MW-2	MW-2	MW-8	MW-8
	111 Ambient	MW-2_20240523	DUP-01_20240523	MW-2_20240528	DUP-01_20240528	MW-8_20240524	MW-8_20240528
	Water Quality Standards	05/23/2024 460-304523-3 460-304541-3	05/23/2024 460-304523-4 460-304541-4	05/28/2024	05/28/2024	05/24/2024 460-304646-3 460-304647-3	05/28/2024
Pesticides (ug/L)							
4,4'-DDD	0.3	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
4,4'-DDE	0.2	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
4,4'-DDT	0.2	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Aldrin	0	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
alpha-BHC	0.01	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
beta-BHC	0.04	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Chlordane	0.05	ND (0.5)	ND (0.5)	-	-	ND (0.5)	-
delta-BHC	0.04	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Dieldrin	0.004	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Endosulfan I	NA	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Endosulfan II	NA	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Endosulfan sulfate	NA	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Endrin	0	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Endrin aldehyde	5	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Endrin ketone	5	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
gamma-BHC (Lindane)	0.05	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Heptachlor	0.04	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Heptachlor epoxide	0.03	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Methoxychlor	35	ND (0.02)	ND (0.02)	-	-	ND (0.02)	-
Toxaphene	0.06	ND (0.5)	ND (0.5)	-	-	ND (0.5)	-
PFAS (ng/L)							
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	NA	ND (19) J	ND (19) J	-	-	ND (21) J	-
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	NA	ND (120) J	ND (120) J	-	-	ND (130) J	-
3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	NA	ND (120) J	ND (120) J	-	-	ND (130) J	-
3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	NA	ND (23) J	ND (24) J	-	-	ND (27) J	-
4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	NA	ND (19) J	ND (19) J	-	-	ND (21) J	-
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	NA	ND (19) J	ND (19) J	-	-	ND (21) J	-
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	ND (19) J	ND (19) J	-	-	ND (21) J	-
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	ND (19) J	ND (19) J	-	-	ND (21) J	-
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NA	ND (19) J	ND (19) J	-	-	ND (21) J	-
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NetFOSAA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	NA	ND (47) J	ND (48) J	-	-	ND (53) J	-
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
N-Methylperfluorooctane sulfonamide (N-MeFOSA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	NA	ND (47) J	ND (48) J	-	-	ND (53) J	-
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NA	ND (9.3) J	ND (9.7) J	-	-	ND (11) J	-
Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	NA	ND (9.3) J	ND (9.7) J	-	-	ND (11) J	-
Perfluoro(4-methoxybutanoic) acid (PFMBA)	NA	ND (9.3) J	ND (9.7) J	-	-	ND (11) J	-
Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	NA	ND (19) J	ND (19) J	-	-	ND (21) J	-
Perfluoro-3-methoxypropanoic acid (PFMPA)	NA	ND (9.3) J	ND (9.7) J	-	-	ND (11) J	-
Perfluorobutanesulfonic acid (PFBS)	NA	ND (4.7) J	ND (4.8) J	-	-	11 J	-
Perfluorobutanoic acid (PFBA)	NA	25 J	22 J	-	-	43 J	-
Perfluorodecanesulfonic acid (PFDS)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluorodecanoic acid (PFDA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluorododecane sulfonic acid (PFDoDS)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluorododecanoic acid (PFDoDA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluoroheptanesulfonic acid (PFHpS)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluoroheptanoic acid (PFHpA)	NA	26 J	29 J	-	-	19 J	-
Perfluorohexanesulfonic acid (PFHxS)	NA	5.6 J	ND (5.3) J	-	-	7.9 J	-
Perfluorohexanoic acid (PFHxA)	NA	35 J	41 J	-	-	34 J	-
Perfluorononane sulfonic acid (PFNS)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluorononanoic acid (PFNA)	NA	5.5 J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluorooctane sulfonamide (PFOSA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluorooctanesulfonic acid (PFOS)	2.7	66 J	66 J	-	-	ND (30) J	-
Perfluorooctanoic acid (PFOA)	6.7	61 J	65 J	-	-	79 J	-
Perfluoropentanesulfonic acid (PFPeS)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluoropentanoic acid (PFPeA)	NA	60 J	58 J	-	-	30 J	-
Perfluorotetradecanoic acid (PFTeDA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluorotridecanoic acid (PFTTrDA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-
Perfluoroundecanoic acid (PFUnDA)	NA	ND (4.7) J	ND (4.8) J	-	-	ND (5.3) J	-

TABLE 4
SUMMARY OF WATER QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	Action Level	MW-2	MW-2	MW-2	MW-2	MW-8	MW-8
	New York TOGS	MW-2_20240523	DUP-01_20240523	MW-2_20240528	DUP-01_20240528	MW-8_20240524	MW-8_20240528
	111 Ambient	05/23/2024	05/23/2024	05/28/2024	05/28/2024	05/24/2024	05/28/2024
	Water Quality Standards	460-304523-3 460-304541-3	460-304523-4 460-304541-4	460-304788-2	460-304788-3	460-304646-3 460-304647-3	460-304788-4
Semi-Volatile Organic Compounds (SIM) (ug/L)							
1,4-Dioxane	0.35	2.7	2.3	-	-	ND (0.2)	-

ABBREVIATIONS AND NOTES:
µg/L: micrograms per liter
ng/L: nanogram per liter

J: Value is estimated.
NA: Not Applicable
ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- For test methods used, see the laboratory data sheets.
- Water analytical results are compared to the New York TOGS 111 Ambient Water Quality Stan
- Bold indicates an exceedance of AWQS criteria.

TABLE 5
SUMMARY OF SOIL GAS QUALITY DATA
90-02 QUEENS BLVD
QUEENS, NEW YORK
FILE NO. 0208933

Location Name Sample Name Sample Date Lab Sample ID	HA-SS-04 HA-SS-04-20240516 05/16/2024 200-73580-5	HA-SS-05 HA-SS-05-20240516 05/16/2024 200-73580-1	HA-SS-06 HA-SS-06-20240516 05/16/2024 200-73580-3	HA-SS-07 HA-SS-07-20240516 05/16/2024 200-73580-7	HA-SS-08 HA-SS-08-20240516 05/16/2024 200-73580-13	HA-SS-09 HA-SS-09-20240516 05/16/2024 200-73580-11	HA-SS-10 HA-SS-10-20240516 05/16/2024 200-73580-9	HA-SS-11 HA-SS-11 05/23/2024 200-73666-1
Volatile Organic Compounds (ug/m3)								
1,1,1-Trichloroethane	0.59 J	6.7	1.9 J	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
1,1,2,2-Tetrachloroethane	ND (1.4) J	ND (1.4)	ND (11)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
1,1,2-Trichloroethane	4.6 J	1.6	ND (8.7)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
1,1-Dichloroethane	0.32 J	1.6	ND (6.5)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)
1,1-Dichloroethene	0.12 J	0.43	ND (1.6)	ND (0.2)	ND (0.2)	ND (0.2)	0.17 J	ND (0.2)
1,2,4-Trichlorobenzene	ND (3.7) J	ND (3.7)	ND (30)	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)
1,2,4-Trimethylbenzene	5.2 J	5.2	3.8 J	4.4	4	3.2	2	7.7
1,2-Dibromoethane (Ethylene Dibromide)	ND (1.5) J	ND (1.5)	ND (12)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
1,2-Dichlorobenzene	ND (1.2) J	ND (1.2)	ND (9.6)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
1,2-Dichloroethane	ND (0.81) J	ND (0.81)	ND (6.5)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)
1,2-Dichloropropane	ND (0.92) J	ND (0.92)	ND (7.4)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)
1,2-Dichlorotetrafluoroethane (CFC 114)	ND (1.4) J	ND (1.4)	ND (11)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
1,3,5-Trimethylbenzene	1.2 J	1	ND (7.9)	0.7 J	0.5 J	0.77 J	0.5 J	2.4
1,3-Butadiene	0.42 J	0.87	1.1 J	0.48	0.64	0.13 J	0.24 J	ND (0.44)
1,3-Dichlorobenzene	1.9 J	0.64 J	ND (9.6)	1.3	0.68 J	0.8 J	0.55 J	ND (1.2)
1,4-Dichlorobenzene	ND (1.2) J	ND (1.2)	ND (9.6)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
1,4-Dioxane	12 J	5 J	5.3 J	0.87 J	0.99 J	ND (18)	0.62 J	1.6 J
2,2,4-Trimethylpentane	67 J	6.5	130	0.76 J	1.9	1.8	0.81 J	0.48 J
2-Butanone (Methyl Ethyl Ketone)	53 J	46	300	23	29	2.2	11	4.4
2-Chlorotoluene	ND (1) J	ND (1)	ND (8.3)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Hexanone (Methyl Butyl Ketone)	ND (2) J	9.3	140	1.6 J	1.5 J	ND (2)	2.5	ND (2)
2-Phenylbutane (sec-Butylbenzene)	ND (1.1) J	ND (1.1)	ND (8.8)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	0.37 J
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	1.2 J	1	ND (7.9)	0.73 J	0.47 J	0.7 J	0.48 J	1.9
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	2.5 J	4.6	20	2.3	1.5 J	0.71 J	4.8	ND (2)
Acetone	470 J	260	2100	350	180	15	220	31
Allyl chloride	ND (1.6) J	ND (1.6)	ND (13)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)
Benzene	9.5 J	3.4	6	1.3	1.6	1.8	1.6	3.4
Benzyl Chloride (alpha-Chlorotoluene)	ND (1) J	ND (1)	ND (8.3)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	ND (1.3) J	ND (1.3)	ND (11)	ND (1.3)	ND (1.3)	0.65 J	ND (1.3)	ND (1.3)
Bromoform	ND (2.1) J	ND (2.1)	ND (17)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)
Bromomethane (Methyl Bromide)	ND (0.78) J	ND (0.78)	ND (6.2)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
Butane	14 J	27	63	9.9	37	2.1	20	4
Carbon disulfide	0.85 J	1.5 J	ND (12)	5.9	0.59 J	0.68 J	1.4 J	2.8
Carbon tetrachloride	0.39 J	0.32	ND (1.8)	0.31	0.22	0.31	0.3	0.32
Chlorobenzene	ND (0.92) J	ND (0.92)	ND (7.4)	ND (0.92)	ND (0.92)	ND (0.92)	0.34 J	ND (0.92)
Chlorodifluoromethane	0.51 J	ND (1.8)	ND (14)	0.6 J	0.77 J	0.96 J	1.2 J	0.71 J
Chloroethane	ND (1.3) J	ND (1.3)	ND (11)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Chloroform (Trichloromethane)	21 J	0.74 J	5.5 J	5.8	0.42 J	9.8	2.4	ND (0.98)
Chloromethane (Methyl Chloride)	0.37 J	0.94 J	ND (8.3)	0.69 J	1.4	0.59 J	0.65 J	ND (1)
cis-1,2-Dichloroethene	0.2 J	ND (0.2)	ND (1.6)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
cis-1,3-Dichloropropene	ND (0.91) J	ND (0.91)	ND (7.3)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)
Cyclohexane	25 J	7.9	30	2.3	2.5	6.5	2.6	1.2
Cymene (p-Isopropyltoluene)	1.2 J	0.95 J	ND (8.8)	0.79 J	0.57 J	0.7 J	0.53 J	1.1
Dibromochloromethane	ND (1.7) J	ND (1.7)	ND (14)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
Dichlorodifluoromethane (CFC-12)	2.3 J	2.1 J	ND (20)	170	2.1 J	2.2 J	2.4 J	1.8 J
Ethylbenzene	36 J	15	190	3.2	4.1	4.2	7.4	2.6
Hexachlorobutadiene	ND (2.1) J	ND (2.1)	ND (17)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)
Hexane	25 J	6.6	51	1.2 J	3.4	1.9	2	0.77 J
Isopropyl Alcohol (2-Propanol)	32 J	13	64 J	21	39	13	14	ND (12)
Isopropylbenzene (Cumene)	2.6 J	2	ND (7.9)	0.87 J	ND (0.98)	ND (0.98)	0.94 J	ND (0.98)
m,p-Xylenes	140 J	57	760	13	12	14	25	11
Methyl methacrylate	ND (2) J	ND (2)	ND (16)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Methyl Tert Butyl Ether (MTBE)	0.51 J	0.13 J	ND (5.8)	0.31 J	ND (0.72)	0.39 J	ND (0.72)	ND (0.72)
Methylene chloride (Dichloromethane)	0.9 J	1.6 J	ND (14)	1.6 J	1.7	5.2	4.2	ND (1.7)
Naphthalene	ND (2) J	ND (2)	ND (16)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
n-Butylbenzene	ND (1.1) J	ND (1.1)	ND (8.8)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
N-Heptane	18 J	12	140	2.5	4.7	1	2.4	1.5
n-Propylbenzene	0.99 J	0.86 J	1.8 J	0.54 J	0.33 J	0.52 J	0.39 J	1.3
o-Xylene	66 J	24	310	5.9	3.8	5.5	8.2	5.8
Styrene	ND (0.85) J	2.3	ND (6.8)	1.3	0.58 J	0.64 J	ND (0.85)	0.63 J
Tert-Butyl Alcohol (tert-Butanol)	9.2 J	13 J	ND (120)	8.7 J	8.3 J	7.1 J	6.5 J	16
tert-Butylbenzene	ND (1.1) J	ND (1.1)	ND (8.8)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	0.56 J
Tetrachloroethene	10 J	17	8.8 J	2.9	0.32 J	4.3	0.93 J	0.42 J
Tetrahydrofuran	ND (15) J	ND (15)	ND (120)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)
Toluene	39 J	11	12	6.3	6.4	18	6.6	22
trans-1,2-Dichloroethene	ND (0.79) J	ND (0.79)	ND (6.3)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
trans-1,3-Dichloropropene	ND (0.91) J	ND (0.91)	ND (7.3)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)
Trichloroethene	2.8 J	1.9	1.7	0.48	ND (0.2)	1	0.63	ND (0.2)
Trichlorofluoromethane (CFC-11)	1.1 J	8.1	ND (9)	1.2	1.1	1.2	1.2	1 J
Trifluorotrichloroethane (Freon 113)	0.48 J	ND (1.5)	ND (12)	1.5	ND (1.5)	0.41 J	0.44 J	ND (1.5)
Vinyl Bromide (Bromoethene)	ND (0.87) J	ND (0.87)	ND (7)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)
Vinyl chloride	ND (0.2) J	ND (0.2)	ND (1.6)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
SUM of Volatile Organic Compounds	1079.95	580.78	4345.9	656.23	354.08	129.96	357.92	128.76
SUM of BTEX	0	110.4	1278	29.7	27.9	43.5	48.8	44.8
SUM of CVOCs	15	27.95	12.4	5.29	2.24	10.81	6.23	0.74

ABBREVIATIONS AND NOTES:

$\mu\text{g}/\text{m}^3$: micrograms per cubic meter

-: Not Analyzed

J: Value is estimated.

BTEX: Benzene, Toluene, Ethylbenzene, Xylenes

CVOCs: Chlorinated volatile organic compounds

NA: Not Applicable

ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

VOCs: Volatile Organic Compounds

- For test methods used, see the laboratory data sheets.

- SUM of CVOCs includes the following compounds: carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene, methylene chloride, tetrachloroethene, 1,1,1-trichloroethane, vinyl chloride

Location Name Sample Name Sample Date Lab Sample ID	HA-AA-12 HA-AA-12-20240516 05/16/2024 200-73580-15	HA-IA-04 HA-IA-04-20240516 05/16/2024 200-73580-6	HA-IA-05 HA-IA-05-20240516 05/16/2024 200-73580-2	HA-IA-06 HA-IA-06-20240516 05/16/2024 200-73580-4	HA-IA-07 HA-IA-07-20240516 05/16/2024 200-73580-8	HA-IA-08 HA-IA-08-20240516 05/16/2024 200-73580-14	HA-IA-09 HA-IA-09-20240516 05/16/2024 200-73580-12	HA-IA-10 HA-IA-10-20240516 05/16/2024 200-73580-10	HA-IA-11 HA-IA-11-05/23/2024 200-73666-2
Volatile Organic Compounds (ug/m3)									
1,1,1-Trichloroethane	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
1,1,2,2-Tetrachloroethane	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
1,1,2-Trichloroethane	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
1,1-Dichloroethane	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)
1,1-Dichloroethene	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
1,2,4-Trichlorobenzene	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)	ND (3.7)
1,2,4-Trimethylbenzene	ND (0.98)	1.5	0.57 J	1.3	2	0.51 J	0.86 J	1	1.3
1,2-Dibromoethane (Ethylene Dibromide)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
1,2-Dichlorobenzene	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
1,2-Dichloroethane	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)	ND (0.81)
1,2-Dichloropropane	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)
1,2-Dichlorotetrafluoroethane (CFC 114)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4)
1,3,5-Trimethylbenzene	ND (0.98)	0.44 J	ND (0.98)	0.35 J	0.46 J	ND (0.98)	0.26 J	0.28 J	0.26 J
1,3-Butadiene	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)	0.12 J	ND (0.44)	0.13 J	ND (0.44)
1,3-Dichlorobenzene	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
1,4-Dichlorobenzene	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
1,4-Dioxane	ND (18)	ND (18)	ND (18)	ND (18)	0.84 J	0.75 J	ND (18)	ND (18)	0.34 J
2,2,4-Trimethylpentane	0.25 J	0.55 J	0.37 J	0.65 J	0.68 J	1.2	0.57 J	0.62 J	0.64 J
2-Butanone (Methyl Ethyl Ketone)	ND (1.5)	1.6	ND (1.5)	2.1	2.1	3.5	1.8	2	3
2-Chlorotoluene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
2-Hexanone (Methyl Butyl Ketone)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
2-Phenylbutane (sec-Butylbenzene)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	ND (0.98)	0.38 J	ND (0.98)	0.33 J	0.41 J	ND (0.98)	ND (0.98)	0.25 J	0.26 J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (2)	ND (2)	0.75 J	ND (2)	ND (2)	1.3 J	0.86 J	3	ND (2)
Acetone	5.2 J	14	12	16	16	33	33	22	15
Allyl chloride	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	ND (1.6)	0.9 J	ND (1.6)	ND (1.6)
Benzene	0.32 J	0.58 J	0.43 J	0.7	0.73	1.3	0.59 J	0.72	0.95
Benzyl Chloride (alpha-Chlorotoluene)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Bromodichloromethane	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Bromoform	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)
Bromomethane (Methyl Bromide)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
Butane	0.73 J	2.1	1.7	2.3	2.3	4.4	2.5	2.5	3.2
Carbon disulfide	ND (1.6)	2.5	0.4 J	ND (1.6)	1.2 J	9	ND (1.6)	0.49 J	2.3
Carbon tetrachloride	0.28	0.36	0.28	0.37	0.36	0.31	0.3	0.28	0.33
Chlorobenzene	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)	ND (0.92)
Chlorodifluoromethane	0.88 J	0.81 J	0.93 J	0.86 J	0.81 J	1 J	0.82 J	1.3 J	0.84 J
Chloroethane	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Chloroform (Trichloromethane)	ND (0.98)	0.76 J	0.58 J	0.58 J	0.58 J	0.45 J	0.74 J	0.4 J	0.48 J
Chloromethane (Methyl Chloride)	1.1	0.89 J	1	1	0.92 J	1.1	1.1	1.1	0.89 J
cis-1,2-Dichloroethene	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
cis-1,3-Dichloropropene	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)
Cyclohexane	ND (0.69)	1.7	1.1	2.7	2.1	4.7	3.6	3	0.34 J
Cymene (p-Isopropyltoluene)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
Dibromochloromethane	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)	ND (1.7)
Dichlorodifluoromethane (CFC-12)	1.9 J	2 J	1.8 J	2.1 J	2.3 J	2 J	1.9 J	2.3 J	1.9 J
Ethylbenzene	ND (0.87)	0.46 J	ND (0.87)	0.52 J	0.58 J	0.69 J	0.56 J	0.51 J	0.48 J
Hexachlorobutadiene	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)	ND (2.1)
Hexane	ND (1.8)	1.1 J	0.82 J	1.2 J	1.3 J	3.9	1.1 J	1.5 J	0.63 J
Isopropyl Alcohol (2-Propanol)	ND (12)	4.7 J	ND (12)	5 J	5.7 J	8.7 J	11 J	7.2 J	7.7 J
Isopropylbenzene (Cumene)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	0.26 J	0.2 J
m,p-Xylenes	ND (2.2)	1.9 J	0.91 J	2 J	2.2	2.3	2.2	1.9 J	1.5 J
Methyl methacrylate	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
Methyl Tert Butyl Ether (MTBE)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)	ND (0.72)
Methylene chloride (Dichloromethane)	0.71 J	1.8	1.6 J	3.3	3.4	6.9	2.9	8.1	0.72 J
Naphthalene	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
n-Butylbenzene	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
N-Heptane	ND (0.82)	0.52 J	0.29 J	0.61 J	0.6 J	1.3	0.45 J	0.69 J	0.49 J
n-Propylbenzene	ND (0.98)	0.25 J	ND (0.98)	ND (0.98)	0.27 J	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)
o-Xylene	ND (0.87)	0.77 J	0.37 J	0.8 J	0.84 J	0.78 J	0.95	0.77 J	0.55 J
Styrene	ND (0.85)	0.31 J	ND (0.85)	0.36 J	0.38 J	0.26 J	0.33 J	0.35 J	0.32 J
Tert-Butyl Alcohol (tert-Butanol)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)
tert-Butylbenzene	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
Tetrachloroethene	0.14 J	0.46 J	0.23 J	0.37 J	0.35 J	0.54 J	0.37 J	0.2 J	0.9 J
Tetrahydrofuran	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)
Toluene	0.89	3.4	1.9	3.9	4.7	6.7	3.7	4.1	4.2
trans-1,2-Dichloroethene	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
trans-1,3-Dichloropropene	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)	ND (0.91)
Trichloroethene	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
Trichlorofluoromethane (CFC-11)	0.9 J	1.3	1.1	1.7	1.3	1.1	1.1	1.2	1 J
Trifluorotrichloroethane (Freon 113)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
Vinyl Bromide (Bromoethene)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)
Vinyl chloride	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)	ND (0.2)
SUM of Volatile Organic Compounds	13.3	47.14	29.13	51.1	55.41	97.81	74.46	68.15	50.72
SUM BTEX	1.21	7.11	3.61	7.92	9.05	11.77	8	8	7.68
SUM CVOCs	1.13	2.62	2.11	4.04	4.11	7.75	3.57	8.58	1.95

ABBREVIATIONS AND NOTES:

µg/m³: micrograms per cubic meter

--: Not Analyzed

J: Value is estimated.

NA: Not Applicable

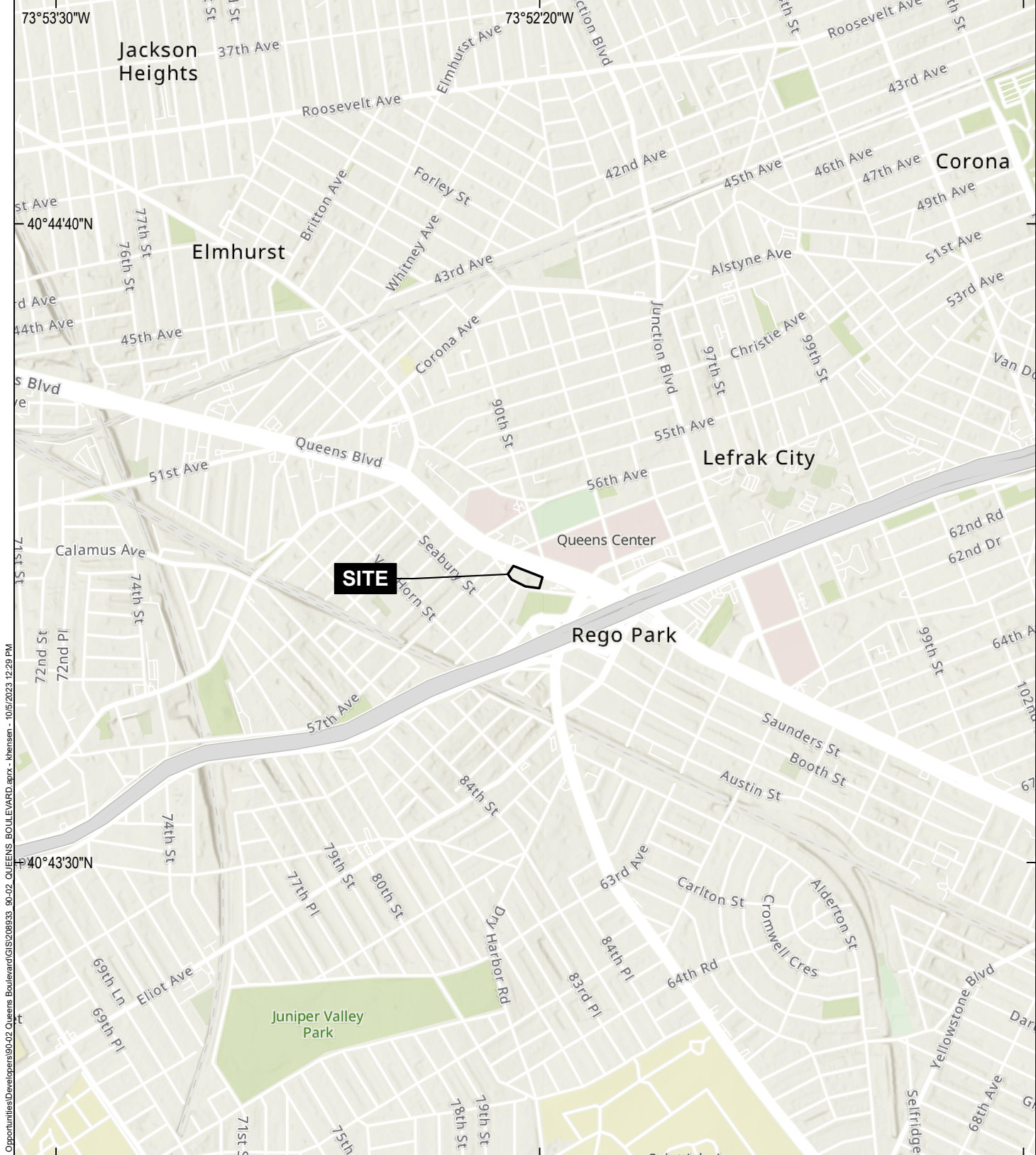
ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- For test methods used, see the laboratory data sheets.

- SUM of CVOCs includes the following compounds: carbon tetrachloride, 1,1-dichloroethene,

cis-1,2-dichloroethene, trichloroethene, methylene chloride, tetrachloroethene, 1,1,1-trichloroethane, vinyl chloride

FIGURES



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MAP SOURCE: ESRI
SITE COORDINATES: 40°44'01"N, 73°52'22"W

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90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
OCTOBER 2023

FIGURE 1

GIS FILE PATH: \\haleyaldrich.com\share\CF\Groups\mty\Proposals\Opportunities\Developers\90-02 Queens Boulevard\GIS\208833_90-02_QUEENS BOULEVARD.aprx - USER: khensen - LAST SAVED: 10/5/2023 12:29 PM

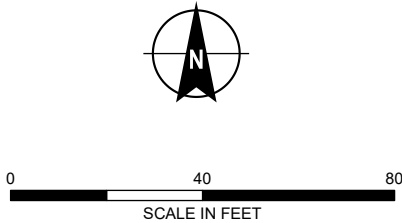


LEGEND

 SITE BOUNDARY

 PARTIAL BASEMENT OUTLINE

- NOTES**
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 2. PARTIAL BASEMENT OUTLINE SOURCE: 'FIGURE 1: MONITORING WELL LOCATIONS', HYDRO TECH ENVIRONMENTAL CORP., 18 SEPTEMBER 2015
 3. ASSESSOR PARCEL DATA SOURCE: NEW YORK CITY PLANNING
 4. AERIAL IMAGERY SOURCE: NEARMAP, 28 MAY 2023



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ALDRICH**

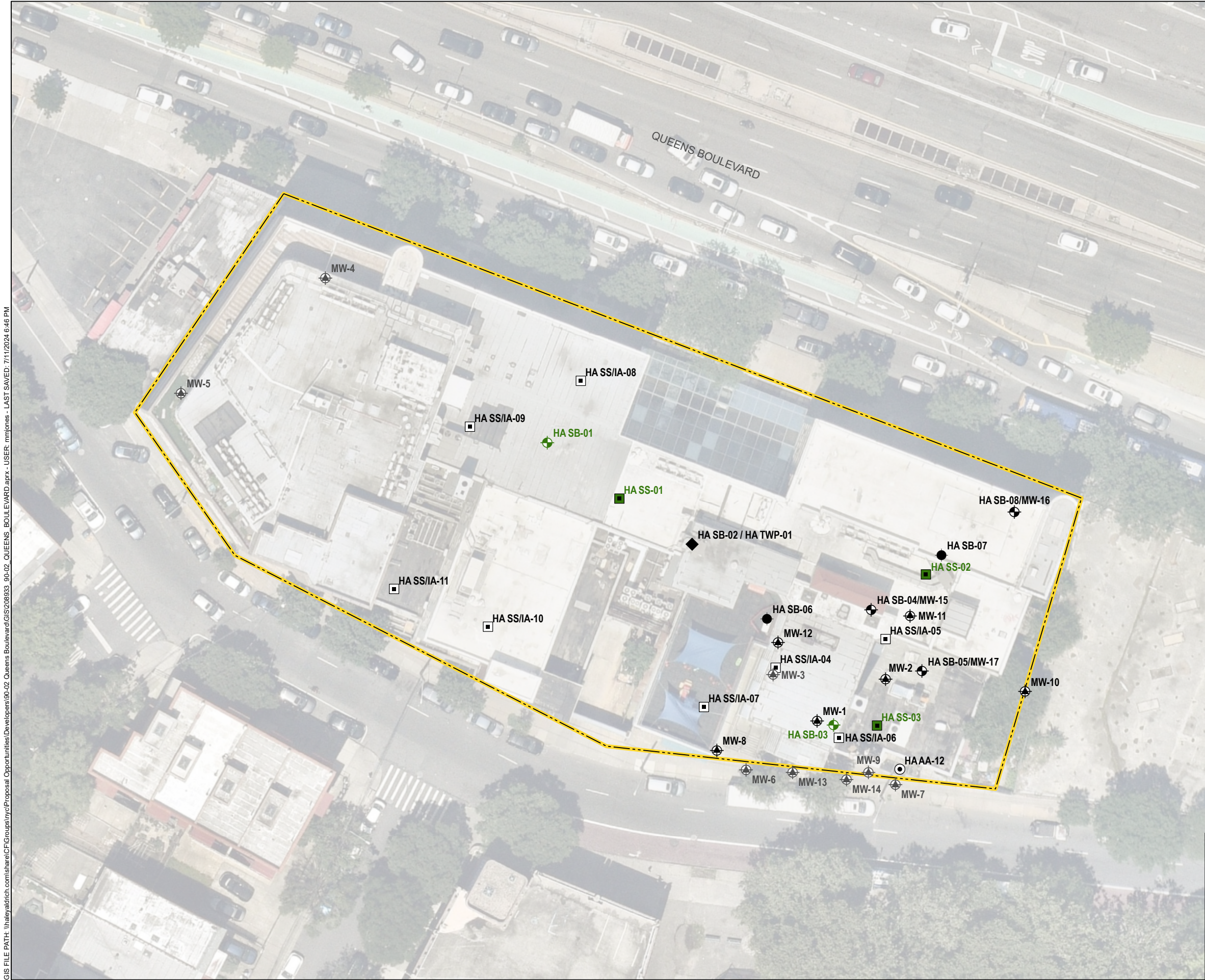
90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

SITE PLAN

OCTOBER 2023

FIGURE 2

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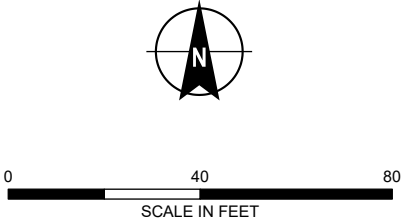


LEGEND

- SOIL BORING
- ⊕ RI SOIL BORING/MONITORING WELL
- ⊕ EXISTING MONITORING WELL (SAMPLED)
- ⊕ EXISTING MONITORING WELL (NOT SAMPLED)
- ◆ AUGUST 2023 LIMITED PHASE II SOIL BORING/ TEMPORARY MONITORING WELL
- ⊙ AMBIENT AIR SAMPLE
- ▣ SOIL VAPOR/INDOOR AIR SAMPLE
- ⊕ AUGUST 2023 LIMITED PHASE II SOIL BORING
- AUGUST 2023 LIMITED PHASE II SOIL VAPOR SAMPLE
- ▭ SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: NEW YORK CITY PLANNING
3. AERIAL IMAGERY SOURCE: NEARMAP, 16 JUNE 2024



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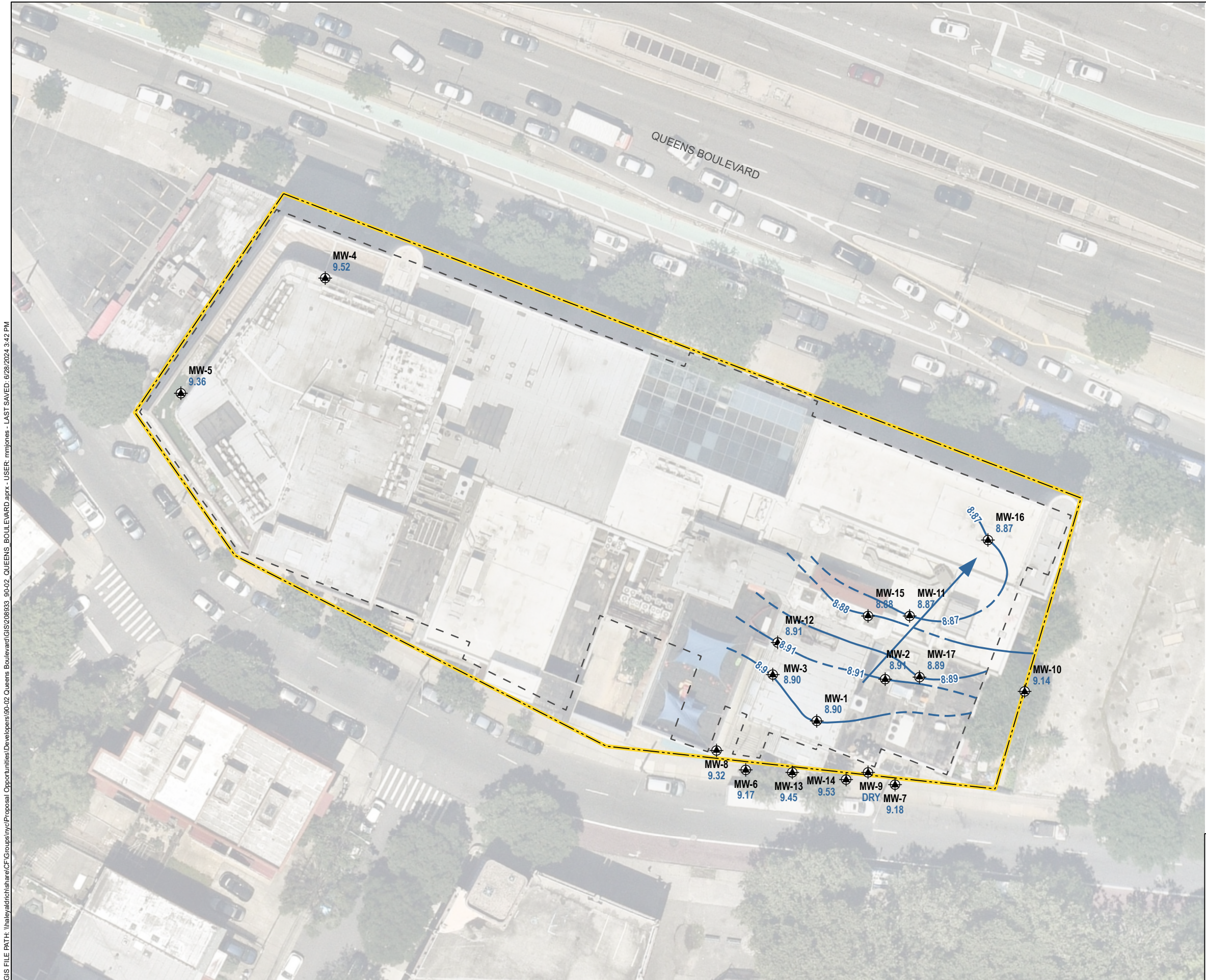
90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

SAMPLE LOCATION MAP

JULY 2024

FIGURE 3

GIS FILE PATH: \\haleyaldrich\share\CF\Groups\hyc\Proposal Opportunities\Developers\90-02 Queens Boulevard\GIS\208939_90-02 QUEENS BOULEVARD.aprx - USER: mmjones - LAST SAVED: 6/28/2024 3:42 PM

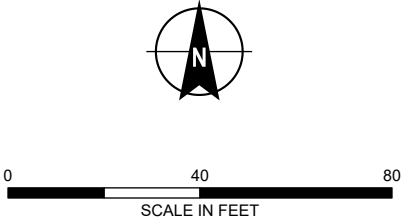


LEGEND

- EXISTING MONITORING WELL (SAMPLED) WITH GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION CONTOUR, IN FEET, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- PARTIAL BASEMENT OUTLINE
- SITE BOUNDARY

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- GROUNDWATER ELEVATIONS ARE IN **BOLD BLUE TEXT** IN FEET BELOW GROUND SURFACE (BGS).
- GROUNDWATER ELEVATIONS WERE MEASURED ON 13 JUNE 2024.
- PARTIAL BASEMENT OUTLINE SOURCE: 'FIGURE 1: MONITORING WELL LOCATIONS', HYDRO TECH ENVIRONMENTAL CORP., 18 SEPTEMBER 2015
- AERIAL IMAGERY SOURCE: NEARMAP, 16 JUNE 2024



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90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

GROUNDWATER CONTOUR MAP

JUNE 2024

FIGURE 4

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	NY-PGW	NY-RESR	NY-UNRES
Total Metals (mg/kg)			
Arsenic	16	16	13
Barium	820	400	350
Copper	1720	270	50
Lead	450	400	63
Mercury	0.73	0.81	0.18
Zinc	2480	10000	109
Semi-Volatile Organic Compounds (mg/kg)			
Benzo(a)anthracene	1	1	1
Benzo(a)pyrene	22	1	1
Benzo(b)fluoranthene	1.7	1	1
Benzo(k)fluoranthene	1.7	3.9	0.8
Chrysene	1	3.9	1
Indeno(1,2,3-cd)pyrene	8.2	0.5	0.5
Volatile Organic Compounds (mg/kg)			
Acetone	0.05	100	0.05
Pesticides (mg/kg)			
4,4'-DDE	17	8.9	0.0033
PFAS (ug/kg)			
PFOS	-	44	0.88

HA SB-07	05/15/2024 460-304032-7 HA-SB-07_0-2 0 - 2 (ft)	05/15/2024 460-304032-8 HA-SB-07_2-3 2 - 3 (ft)
Total Metals (mg/kg)		
Copper	45.8	251
Lead	510	254
Mercury	0.77	0.39
Zinc	199	293
Pesticides (mg/kg)		
4,4'-DDE	0.0059 J	ND (0.0071)

HA SB-08	05/15/2024 460-304032-5 HA-SB-08_0-2 0 - 2 (ft)	05/15/2024 460-304032-12 DUP-01_20240515 2 - 3 (ft)	05/15/2024 460-304032-6 HA-SB-08_2-3 2 - 3 (ft)
Total Metals (mg/kg)			
Copper	26.7	71.7	21.6
Lead	81.8	471	63.8
Semi-Volatile Organic Compounds (mg/kg)			
Benzo(a)anthracene	2.4	0.19	0.35
Benzo(a)pyrene	2.4	0.24	0.49
Benzo(b)fluoranthene	2.9	0.27	0.56
Benzo(k)fluoranthene	1.2	0.1	0.21
Chrysene	2	0.2 J	0.33 J
Indeno(1,2,3-cd)pyrene	1.4	0.18	0.35
Pesticides (mg/kg)			
4,4'-DDE	ND (0.0069)	0.0056 J	ND (0.0069)

HA SB-02	08/03/2023 460-285468-1 HA SB-02_0-2 0 - 2 (ft)	08/03/2023 460-285468-2 HA SB-02_5.5-6 5.5 - 6 (ft)
Volatile Organic Compounds (mg/kg)		
Acetone	0.12	0.013

HA SB-06	05/15/2024 460-304031-9 460-304032-9 HA-SB-06_0-2 0 - 2 (ft)	05/15/2024 460-304031-10 460-304032-10 HA-SB-06_2-3 2 - 3 (ft)
Total Metals (mg/kg)		
Lead	87.1	28.4
PFAS (ug/kg)		
Perfluorooctanesulfonic acid (PFOS)	0.84	0.9

HA SB-04	05/15/2024 460-304032-3 HA-SB-04_0-2 0 - 2 (ft)	05/15/2024 460-304032-4 HA-SB-04_2-3 2 - 3 (ft)
Total Metals (mg/kg)		
Arsenic	21.8	1.6
Barium	474	36.9
Copper	109	8.9
Lead	4390	19.5
Mercury	0.22	ND (0.017)
Zinc	578	23

HA SB-03	08/03/2023 460-285468-3 HA SB-03_0-2 0 - 2 (ft)	08/03/2023 460-285468-4 HA SB-03_5.5-6 5.5 - 6 (ft)
Volatile Organic Compounds (mg/kg)		
Acetone	0.068	0.0072

LEGEND

- SOIL SAMPLE
- SOIL SAMPLE/PERMANENT MONITORING WELL
- AUGUST 2023 LIMITED PHASE II SOIL BORING
- AUGUST 2023 LIMITED PHASE II SOIL BORING/ TEMPORARY MONITORING WELL
- SITE BOUNDARY
- PARTIAL BASEMENT OUTLINE

NOTES

- ALL LOCATIONS AND DIMESNSIONS ARE APPROXIMATE.
- SOIL SAMPLE ANALYTICAL RESULTS, WITH THE EXCEPTION OF EMERGING CONTAMINANTS, ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (SCOS), RESTRICTED-RESIDENTIAL SCOS, AND 40 CFR 261 SUBPART C AND TABLE 1 OF 40 CFR 261.24.
- EMERGING CONTAMINANTS ANALYTICAL RESULTS ARE COMPARED TO THE NYSDEC APRIL 2023 UNRESTRICTED, RESTRICTED RESIDENTIAL, AND PROTECTION OF GROUNDWATER GUIDANCE VALUES (NYSDEC GVs) FOR PFOA AND PFOS.
- EXCEEDANCES OF THE NY-UNRES SCOS ARE SHADED GRAY.
- EXCEEDANCES OF THE NY-UNRES AND NY-RESRR ARE SHADED YELLOW.
- EXCEEDANCES OF THE NY-PGW ARE SHOWN IN BLACK TEXT AND IN ITALICS.
- NON-EMERGING CONTAMINANTS RESULTS ARE DISPLAYED IN MILLIGRAMS PER KILOGRAM (mg/kg).
- EMERGING CONTAMINANTS RESULTS ARE DESPLAYED IN MICROGRAMS PER KILOGRAM (ug/kg).
- PARTIAL BASEMENT OUTLINE SOURCE: 'FIGURE 1: MONITORING WELL LOCATIONS', HYDRO TECH ENVIRONMENTAL CORP., 18 SEPTEMBER 2015.
- ASSESSOR PARCEL DATA SOURCE: NEW YORK CITY PLANNING
- AERIAL IMAGERY SOURCE: NEARMAP, 16 JUNE 2024



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90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

SOIL RESULTS
EXCEEDANCE MAP

JULY 2024

FIGURE 5

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MW-2	08/03/2023 460-285468-9	05/23/2024 460-304541-3	05/23/2024 460-304541-4	05/28/2024 460-304788-2	05/28/2024 460-304788-3
Volatile Organic Compounds					
1,1,1-Trichloroethane	830	2500	2700	-	-
1,1,2-Trichloroethane	1.6 J	3.5 J	3.5 J	-	-
1,1-Dichloroethane	490	1600	1700	-	-
1,1-Dichloroethene	560	1300	1400	-	-
1,2-Dichlorobenzene	3.1 J	4.6 J	4.4 J	-	-
Chlorobenzene	7.7	13	14	-	-
Chloroethane	19	16	17	-	-
Tetrachloroethene	6.8	10	11	-	-
Vinyl chloride	17	41	47	-	-
Metals, Dissolved					
Manganese, Dissolved	-	-	-	1750	2150
Nickel, Dissolved	-	-	-	237	222
Sodium, Dissolved	-	-	-	107000	108000
Metals, Total					
Iron, Total	-	4990	3580	-	-
Manganese, Total	-	3790	3350	-	-
Nickel, Total	-	272	251	-	-
Sodium, Total	-	139000	134000	-	-

MW-12	05/23/2024 460-304541-1	05/28/2024 460-304788-6
Metals, Dissolved		
Manganese, Dissolved	-	910
Sodium, Dissolved	-	51700
Metals, Total		
Iron, Total	12500	-
Manganese, Total	1970	-
Mercury, Total	0.77	-
Sodium, Total	59800	-

MW-8	05/28/2024 460-304788-4
Metals, Dissolved	
Manganese, Dissolved	5860
Sodium, Dissolved	409000
Metals, Total	
Iron, Total	8980
Manganese, Total	6550
Sodium, Total	427000

MW-1	05/23/2024 460-304541-2	05/28/2024 460-304788-1
Metals, Dissolved		
Magnesium, Dissolved	-	36100
Manganese, Dissolved	-	4450
Sodium, Dissolved	-	127000
Metals, Total		
Iron, Total	6640	-
Magnesium, Total	36900	-
Manganese, Total	5870	-
Sodium, Total	113000	-

MW-15	05/24/2024 460-304646-5	05/28/2024 460-304788-7
Volatile Organic Compounds		
1,1-Dichloroethane	33	-
1,1-Dichloroethene	14	-
Benzene	14	-
Chloroethane	43	-
Vinyl chloride	6.5	-
Semi-Volatile Organic Compounds		
Acenaphthene	86	-
Metals, Dissolved		
Iron, Dissolved	-	664
Manganese, Dissolved	-	2530
Sodium, Dissolved	-	72500
Metals, Total		
Iron, Total	6400	-
Manganese, Total	2390	-
Sodium, Total	72200	-

MW-11	08/03/2023 460-285468-10	05/23/2024 460-304541-5	05/28/2024 460-304788-5
Volatile Organic Compounds			
1,1,2-Trichloroethane	1.3 J	1.2 J	-
1,1-Dichloroethane	680	910	-
1,1-Dichloroethene	280	310	-
Vinyl chloride	17	20	-
Metals, Dissolved			
Iron, Dissolved	-	-	310
Nickel, Dissolved	-	-	360
Sodium, Dissolved	-	-	77800
Metals, Total			
Cadmium, Total	-	5.5	-
Iron, Total	-	5210	-
Magnesium, Total	-	43800	-
Manganese, Total	-	2610	-
Nickel, Total	-	547	-
Sodium, Total	-	72400	-

MW-16	05/24/2024 460-304646-4	05/28/2024 460-304788-8
Metals, Dissolved		
Sodium, Dissolved	-	121000
Metals, Total		
Iron, Total	10200	-
Lead, Total	79.1	-
Manganese, Total	404	-
Sodium, Total	97300	-

MW-17	05/24/2024 460-304646-1	05/28/2024 460-304788-9
Volatile Organic Compounds		
1,1,1-Trichloroethane	120	-
1,1,2-Trichloroethane	3.2 J	-
1,1-Dichloroethane	870	-
1,1-Dichloroethene	820	-
1,2-Dichlorobenzene	6.8	-
Chlorobenzene	10	-
Tetrachloroethene	6.2	-
Vinyl chloride	42	-
Metals, Dissolved		
Cadmium, Dissolved	-	8.7
Copper, Dissolved	-	445
Magnesium, Dissolved	-	94800
Manganese, Dissolved	-	7830
Nickel, Dissolved	-	594
Sodium, Dissolved	-	208000
Metals, Total		
Cadmium, Total	8.8	-
Copper, Total	415	-
Iron, Total	8600	-
Magnesium, Total	93500	-
Manganese, Total	7820	-
Nickel, Total	595	-
Sodium, Total	202000	-

LEGEND

-  SAMPLED MONITORING WELL
-  AUGUST 2023 LIMITED PHASE II SOIL BORING/
TEMPORARY MONITORING WELL
-  SITE BOUNDARY
-  PARTIAL BASEMENT OUTLINE

	NYSDEC AWQS
Volatile Organic Compounds (ug/L)	
1,1,1-Trichloroethane	5
1,1,2-Trichloroethane	1
1,1-Dichloroethane	5
1,1-Dichloroethene	5
1,2-Dichlorobenzene	3
Benzene	1
Chlorobenzene	5
Chloroethane	5
Tetrachloroethene	5
Vinyl chloride	2
Semi-Volatile Organic Compounds (ug/L)	
Acenaphthene	20
Metals (ug/L)	
Cadmium, Dissolved/Total	5
Copper, Dissolved/Total	200
Iron, Dissolved/Total	300
Lead, Total	25
Magnesium, Dissolved/Total	35000
Manganese, Dissolved/Total	300
Mercury, Total	0.7
Nickel, Dissolved/Total	100
Sodium, Dissolved/Total	20000

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS (AWQS).
3. SAMPLES FOR DISSOLVED METALS WERE COLLECTED ON 28 MAY 2024.
4. RESULTS SHADED GRAY EXCEED THE NYSDEC AWQS.
5. RESULTS ARE DISPLAYED IN MICROGRAMS PER LITER (ug/L).
6. PARTIAL BASEMENT OUTLINE SOURCE: 'FIGURE 1: MONITORING WELL LOCATIONS', HYDRO TECH ENVIRONMENTAL CORP., 18 SEPTEMBER 2015.
7. ASSESSOR PARCEL DATA SOURCE: NEW YORK CITY PLANNING
8. AERIAL IMAGERY SOURCE: NEARMAP, 16 JUNE 2024



0 40 80
SCALE IN FEET

HALEY
ALDRICH

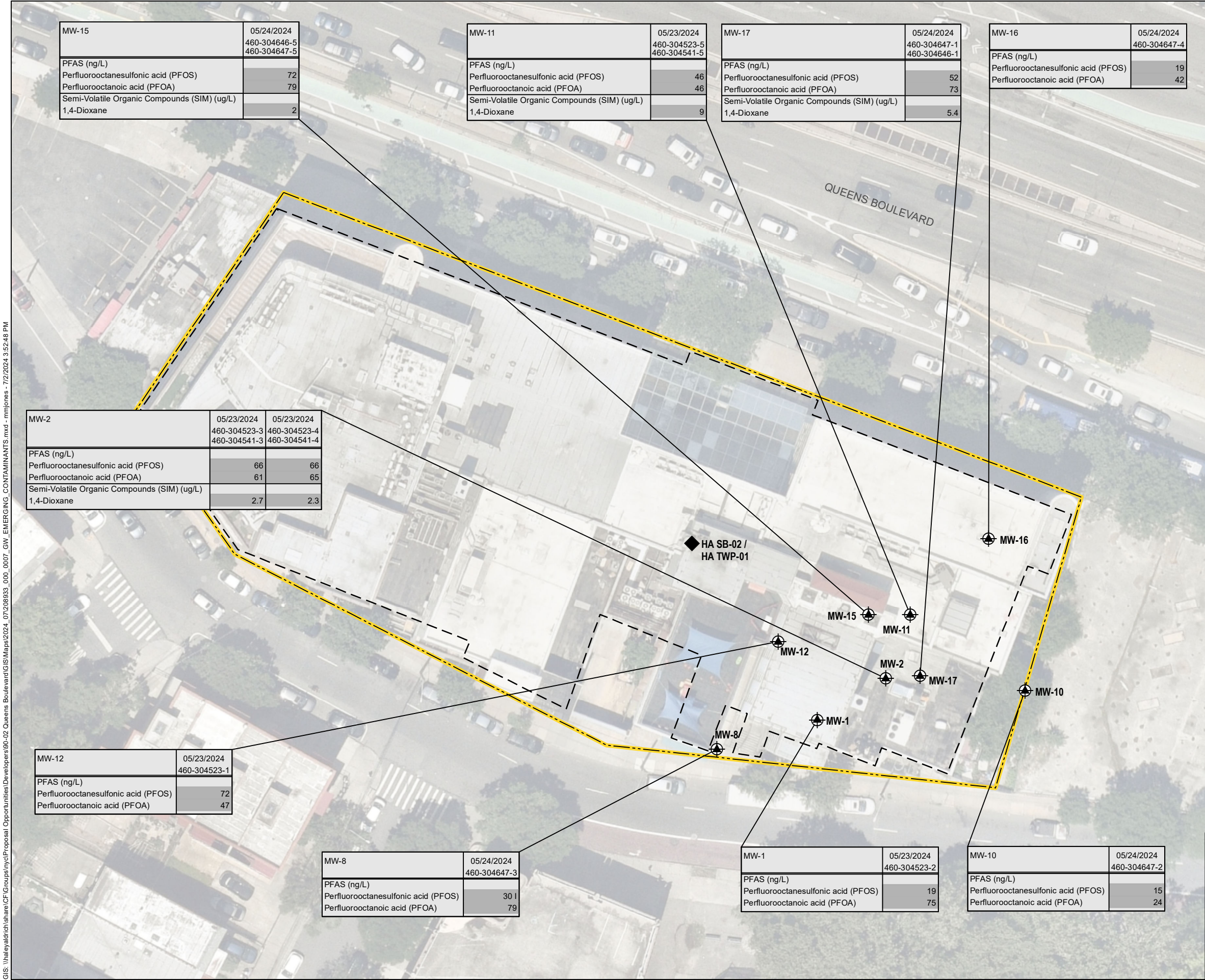
90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

GROUNDWATER RESULTS
EXCEEDANCE MAP

JULY 2024

FIGURE 6

C:\GIS\HaleyAldrich\share\CF\Groups\hwy\Propose\Opportunities\Developers\90-02 Queens Boulevard\GIS\Maps\2024_07\20240903_000_0007_GW_EMERGING_CONTAMINANTS.mxd - mxdjones - 7/2/2024 3:52:48 PM



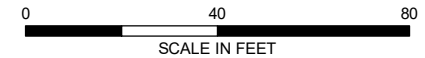
LEGEND

- SAMPLED MONITORING WELL
- AUGUST 2023 LIMITED PHASE II SOIL BORING/ TEMPORARY MONITORING WELL
- SITE BOUNDARY
- PARTIAL BASEMENT OUTLINE

	2023 Guidance Values
PFAS (ng/L)	
Perfluorooctanesulfonic acid (PFOS)	2.7
Perfluorooctanoic acid (PFOA)	6.7
Semi-Volatile Organic Compounds (ug/L)	
1,4-Dioxane	0.35

NOTES

- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
- EMERGING CONTAMINANTS ANALYTICAL RESULTS COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) APRIL 2023 GUIDANCE VALUES (GVs) FOR PFOA AND PFOS.
- ONLY EXCEEDANCES SHOWN ON FIGURE.
- PFAS RESULTS ARE SHOWN IN NANOGRAMS PER LITER (ng/L). 1,4-DIOXANE RESULTS SHOWN IN MICROGRAM PER LITER (μg/L).
- PARTIAL BASEMENT OUTLINE SOURCE: 'FIGURE 1: MONITORING WELL LOCATIONS', HYDRO TECH ENVIRONMENTAL CORP., 18 SEPTEMBER 2015.
- ASSESSOR PARCEL DATA SOURCE: NEW YORK CITY PLANNING
- AERIAL IMAGERY SOURCE: NEARMAP, 16 JUNE 2024



HALEY ALDRICH

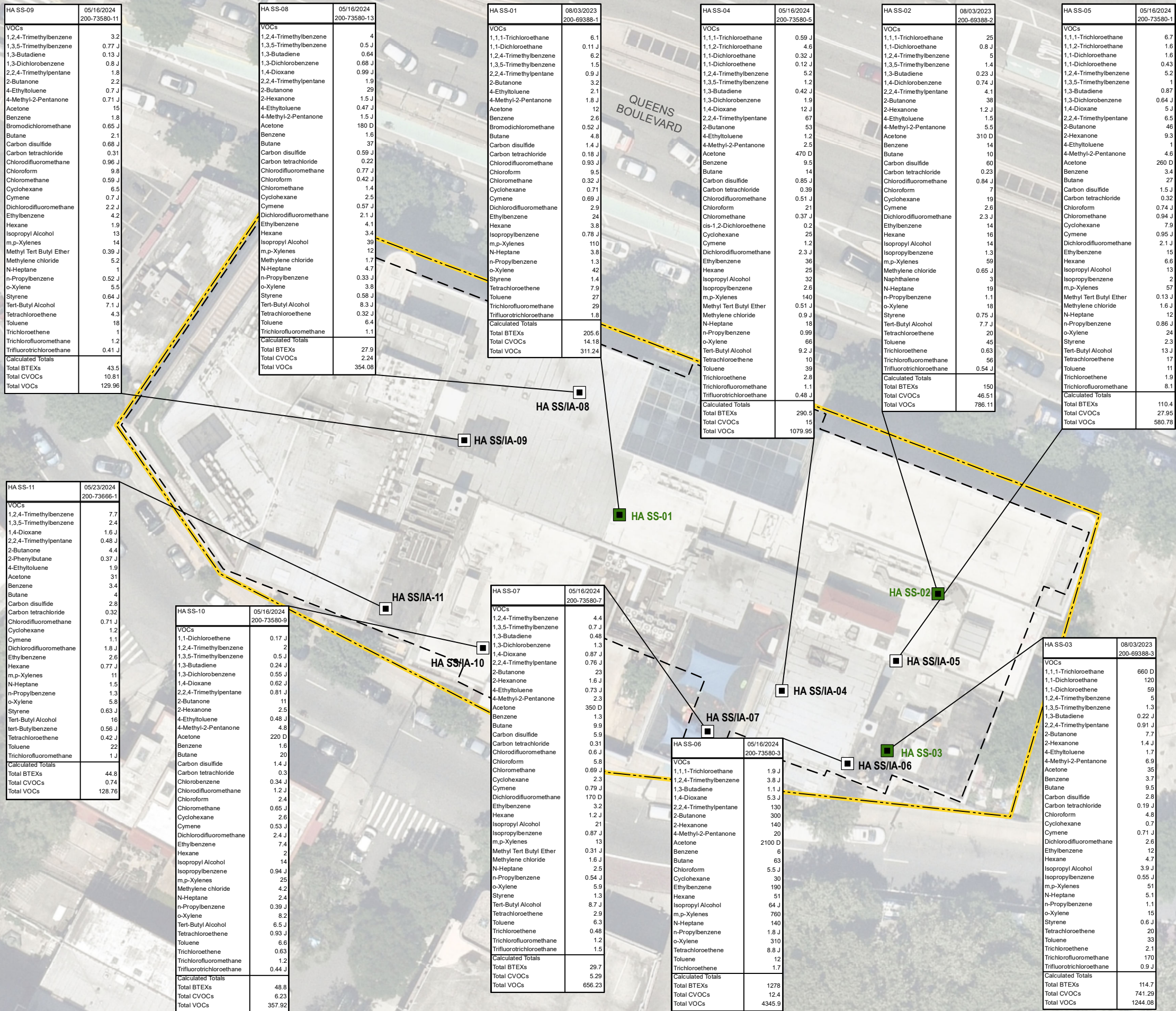
90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

EMERGING CONTAMINANTS IN
GROUNDWATER RESULTS
EXCEEDANCE MAP

JULY 2024

FIGURE 7

C:\GIS\HaleyAldrich\share\CF\Groups\hny\Proposals\90-02 Queens Boulevard\GIS\Maps\2024_0720\903_000_008_SOIL_VAPOR_RESULTS.mxd - m:\miniones - 7/2/2024 6:27:16 PM



HALEY
ALDRICH

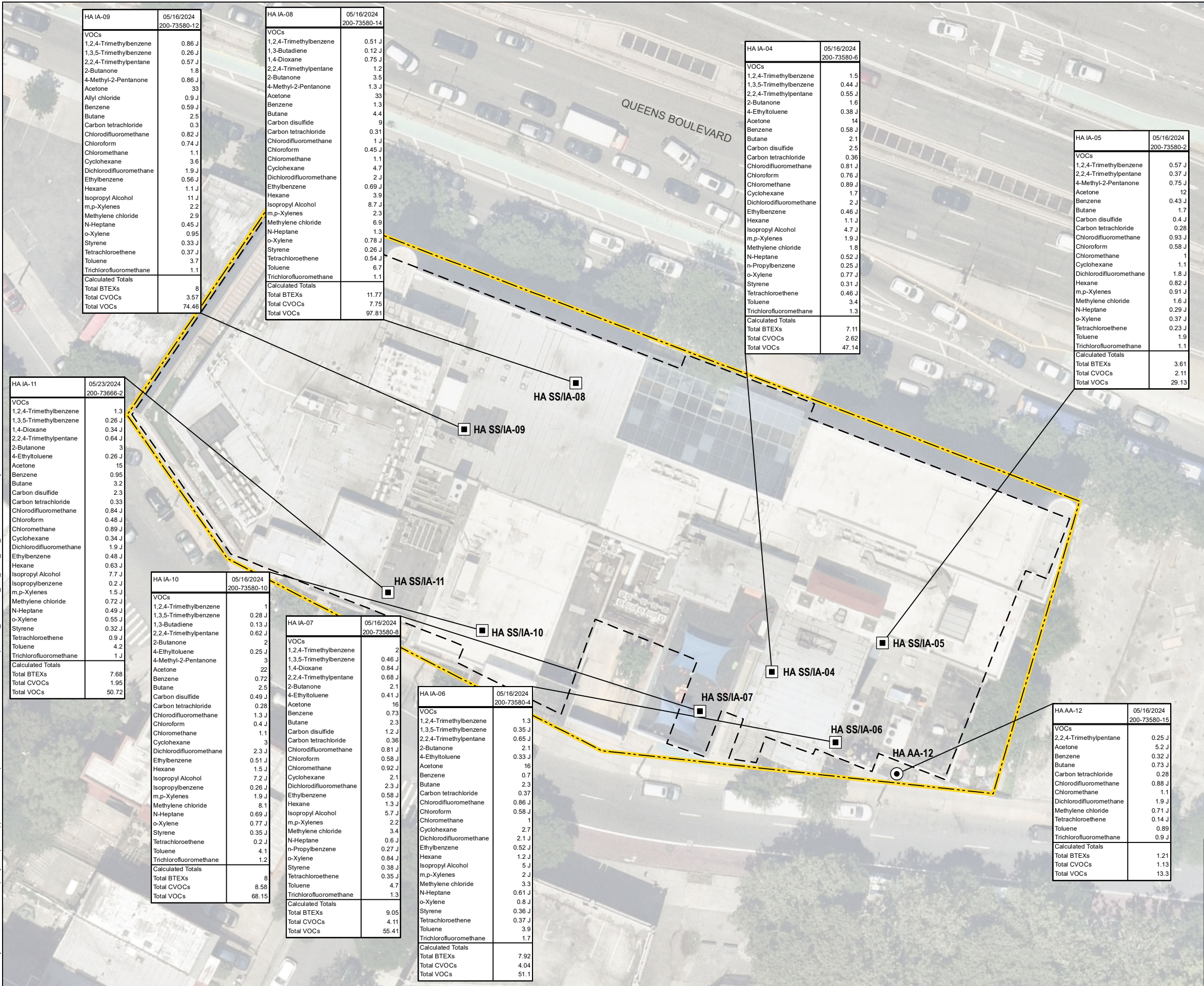
90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

SOIL VAPOR RESULTS SUMMARY MAP

JULY 2024

FIGURE 8

C:\GIS\HaleyAldrich\Share\CF\Groups\hvc\Proposals\Opportunities\Developers\90-02 Queens Boulevard\GIS\Maps\2024_07\20240903_000_0009_AIR_RESULTS.mxd - m:\jones - 7/2/2024 6:34:42 PM



- LEGEND**
- SOIL VAPOR/INDOOR AIR SAMPLE
 - AMBIENT AIR SAMPLE
 - SITE BOUNDARY
 - PARTIAL BASEMENT OUTLINE

- NOTES**
- ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
 - ALL DETECTED ANALYTES SHOWN ON FIGURE.
 - INDOOR AIR SAMPLES CO-LOCATED WITH SUB-SLAB SOIL VAPOR SAMPLES WERE COLLECTED DURING THE MAY 2024 SC EVENT.
 - AIR ANALYSIS - VOLATILE ORGANIC COMPOUNDS (VOCs).
 - RESULTS ARE DISPLAYED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$).
 - TOTAL DETECTED CONCENTRATION OF BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES (BTEX).
 - TOTAL CVOCs CONCENTRATION IS THE SUM OF DETECTED CARBON TETRACHLORIDE, 1,1-DICHLOROETHENE, CIS-1,2-DICHLOROETHENE, TRICHLOROETHENE, METHYLENE CHLORIDE, TETRACHLOROETHENE, 1,1,1-TRICHLOROETHANE, AND VINYL CHLORIDE.
 - TOTAL VOCs IS THE SUM OF ALL THE DETECTED CONCENTRATIONS.
 - J = ESTIMATED VALUE
 - PARTIAL BASEMENT OUTLINE SOURCE: 'FIGURE 1: MONITORING WELL LOCATIONS', HYDRO TECH ENVIRONMENTAL CORP., 18 SEPTEMBER 2015.
 - ASSESSOR PARCEL DATA SOURCE: NEW YORK CITY PLANNING
 - AERIAL IMAGERY SOURCE: NEARMAP, 16 JUNE 2024



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SCALE IN FEET

**HALEY
ALDRICH**

90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

INDOOR AND AMBIENT AIR RESULTS SUMMARY MAP

JULY 2024

FIGURE 9

APPENDIX A

Previous Reports

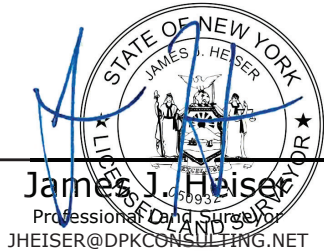
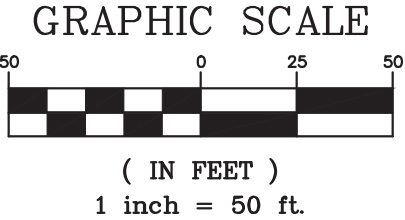
APPENDIX B

Survey Maps

MONITORING WELLS	GROUND	RIM	PVC
MW-1	12.56 TILE	12.59	12.33
MW-2	12.58 TILE	12.56	12.37
MW-3	12.42 TILE	12.44	12.10
MW-4	12.41 TILE	12.45	12.12
MW-5	12.12 CONC	12.14	11.90
MW-6	18.12 CONC	18.15	17.93
MW-7	18.44 CONC	18.52	18.29
MW-8	18.15 CONC	17.91	17.55
MW-9	18.42 CONC	18.49	18.18
MW-10	18.97 CONC	19.03	18.74
MW-11	12.55 TILE	12.55	12.22
MW-12	12.53 TILE	12.52	12.05
MW-13	18.14 CONC	18.18	17.87
MW-14	18.10 CONC	18.17	17.85
MW-15	12.54 TILE	12.55	12.11
MW-16	12.39 TILE	12.40	11.94
MW-17	12.56 TILE	12.56	12.05

- NOTES:
1. FIELD WORK PERFORMED ON JUNE 13, 2024.
 2. ELEVATION DATUM NAVD 1988 DERIVED USING GPS RECEIVERS AND KEYNET. CORS STATION: NYBP BATTERY PARK ELEV=57.21' (NAVD 1988)

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.



DATE 06/13/2024
N.J. Lic: 24GS04331100
PA. Lic: SU075616
N.Y. Lic: 050932-1
CT. Lic: 70476
DE. LIC: S6-0010858

Date: 6/13/24 Dr.: P.C. Chk.: C.S. SCALE: 1" = 50' JOB No. 24-10362 Dwg: 24-10362MW00



DPK
LAND SURVEYING

DPK LAND SURVEYING, LLC
200 METROPLEX DRIVE - STE. 285, EDISON, NJ 08817
P: 732-764-0100 F: 732-764-0990
NEW YORK CERTIFICATE OF AUTHORIZATION NO. 0012585

MONITORING WELL LOCATION MAP

FOR:
HALEY & ALDRICH
SITE:
90-02 QUEENS BOULEVARD
QUEENS, NEW YORK

GEOPHYSICAL ENGINEERING SURVEY REPORT

90-02 Queens Boulevard,
Queens, New York 11373

NOVA PROJECT NUMBER:

24-4200

DATED:

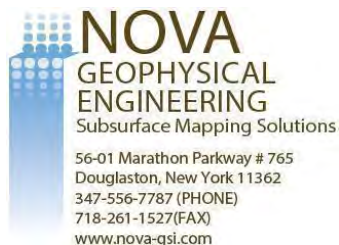
May 21, 2024

PREPARED FOR:



237 West 35th Street, 16th Floor
New York, NY 10123
www.haleyaldrich.com

PREPARED BY:



NOVA GEOPHYSICAL SERVICES

Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765, Douglaston, NY 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.novagsi.com

May 21, 2024

Matthew Levy
Senior Project Manager
H & A of New York Engineering and Geology, LLP
213 West 35th Street,
New York, New York 10001
M: (516) 666-5382 E: MLevy@haleyaldrich.com

Re: Geophysical Engineering Survey (GES) Report
90-02 Queens Boulevard,
Queens, New York 11373

Dear Mr. Levy.

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 90-02 Queens Boulevard, Queens, New York (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, underground storage tanks (USTs) and other substructures in the vicinity of proposed boring locations on May 15th, 2024.

The equipment selected for this investigation was a Sensors and Software Noggin 250 MHz ground penetrating radar (GPR) with a shielded antenna and a RadioDetection RD7100 Electromagnetic utility locator. A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger

pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

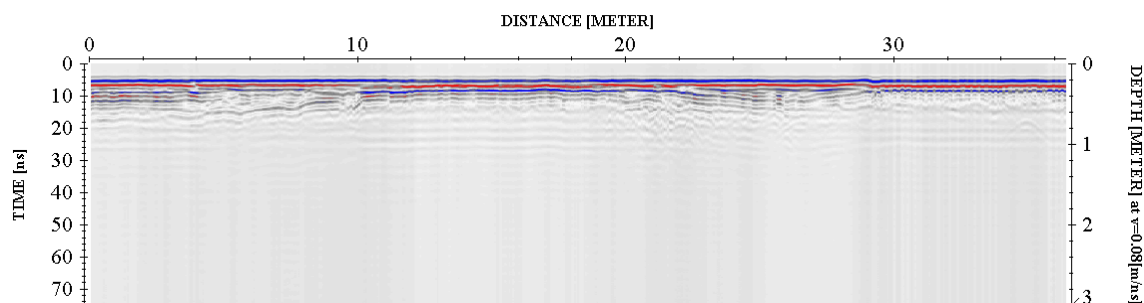
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

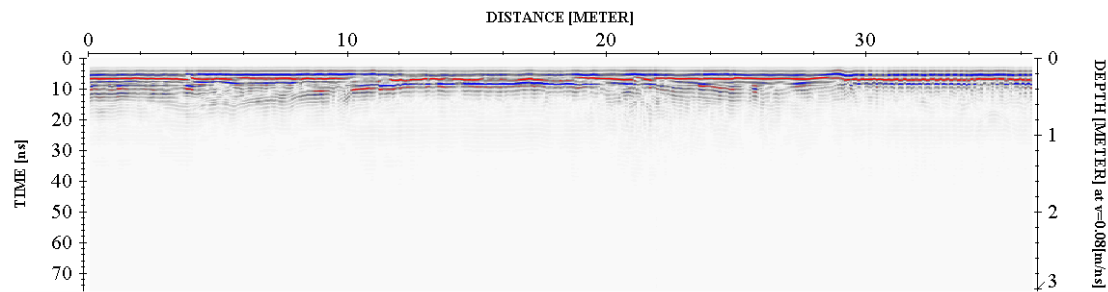
DATA PROCESSING

To improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing workflow is briefly described in this section.

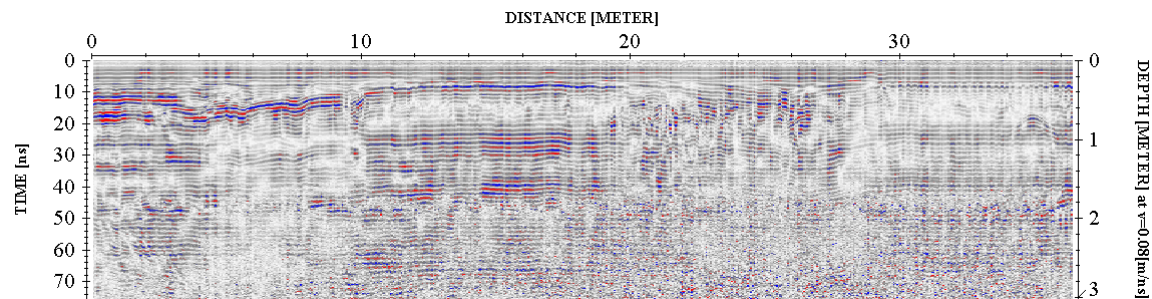
Step 1. Import Raw RAMAC data to standard processing format



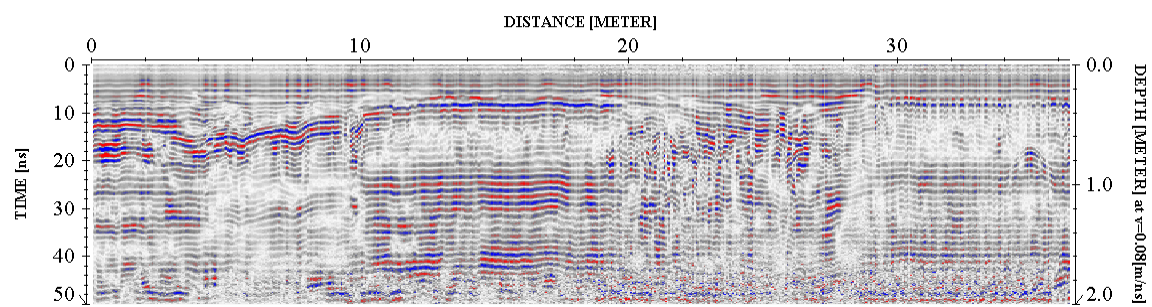
Step 2. Remove instrument noise (*dewow*)



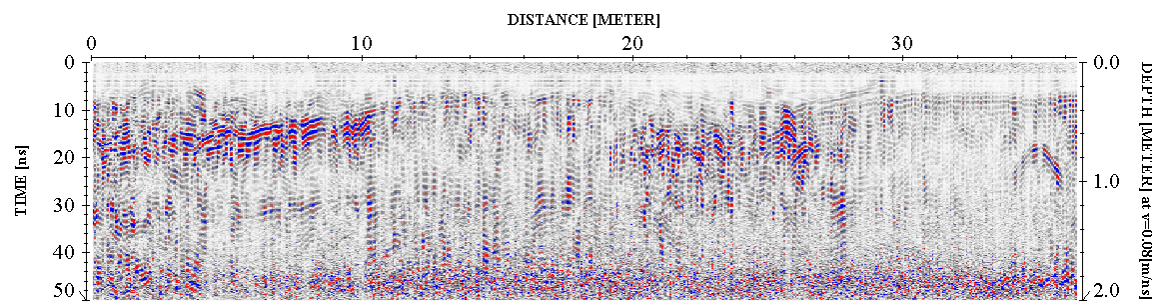
Step 3. Correct for attenuation losses (*energy decay function*)



Step 4. Remove static from bottom of profile (*time cut*)



Step 5. Mute horizontal ringing/noise (*subtracting average*)



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: Sunny

Temperature: 55° F

Surface: Concrete, Tile

Survey Parameters: A GPR grid scan was conducted within the survey areas as shown on the survey plan. The approximate line spacing of the grid survey was approximately 5'. Additional GPR data was collected over features of interest.

Limitations: The geophysical noise level (GNL) at the site was high due to being in an urban environment and other unknown anthropogenic noise sources.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Anomalies resembling potential subsurface utilities (such as electric, water, telecom, gas, and sewer) were identified within the survey area. The approximate locations are shown in the survey plan.
- The GES did not identify any major anomalies consistent with any underground storage tanks (USTs) at the project area.
- NOVA cleared and marked all proposed boring locations.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services



Levent Eskicakit, P.G., E.P.

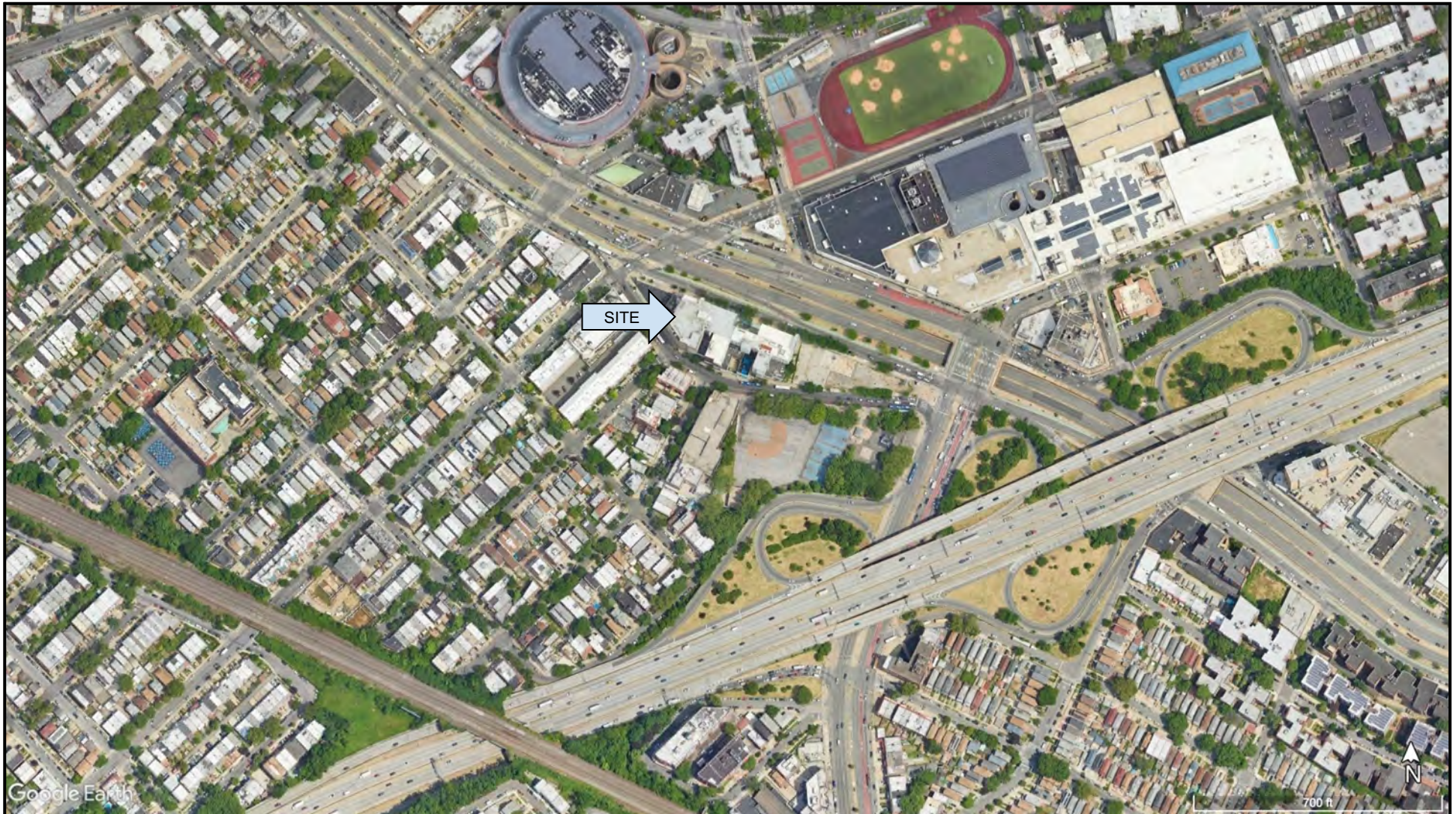
Project Manager

Attachments:

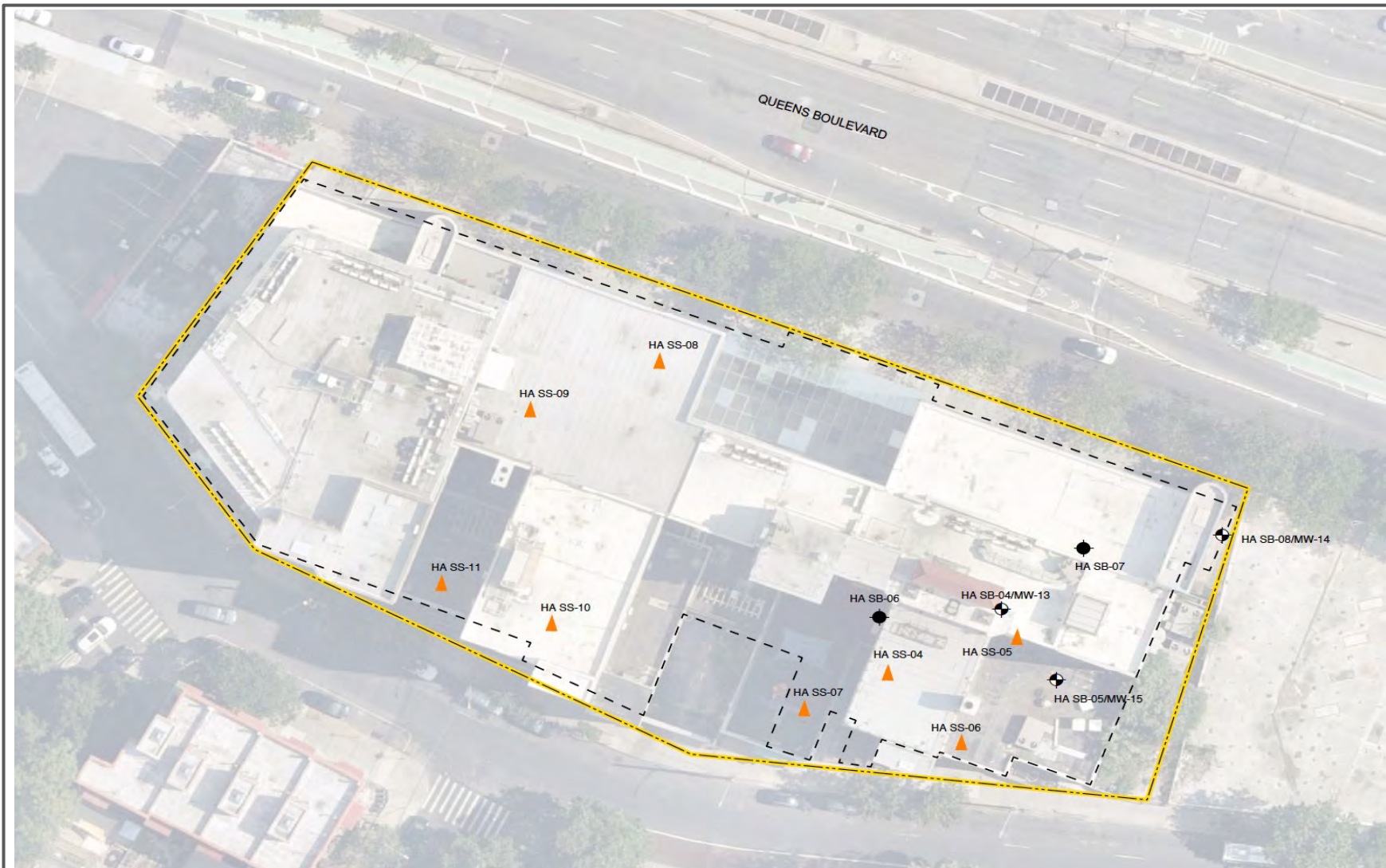
Location Map

Survey Plan

Geophysical Images



	Location Map	LEGEND
NOVA Geophysical Services Subsurface Mapping Solutions 56-01 Marathon Parkway, # 765 Douglaston, New York 11362 Phone (347) 556-7787 * Fax (718) 261-1527 www.novagsi.com	SITE: Commercial Property 90-02 Queens Boulevard, Queens, New York 11373 DATE: August 3rd, 2023 AUTH: Tolga Ybas	



SURVEY PLAN

SITE: **Commercial Property**
90-02 Queens Boulevard,
Queens, New York 11373

DATE: May 15, 2024

AUTH: Tolga Ybas

LEGEND

- SITE BOUNDARY
- PARTIAL BASEMENT OUTLINE
- PROPOSED SOIL BORING / GROUNDWATER MONITORING WELL LOCATION
- PROPOSED SOIL BORING LOCATION
- ▲ PROPOSED SOIL VAPOR LOCATION



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SCALE IN FEET

NOVA Geophysical Services

Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

GEOPHYSICAL IMAGES

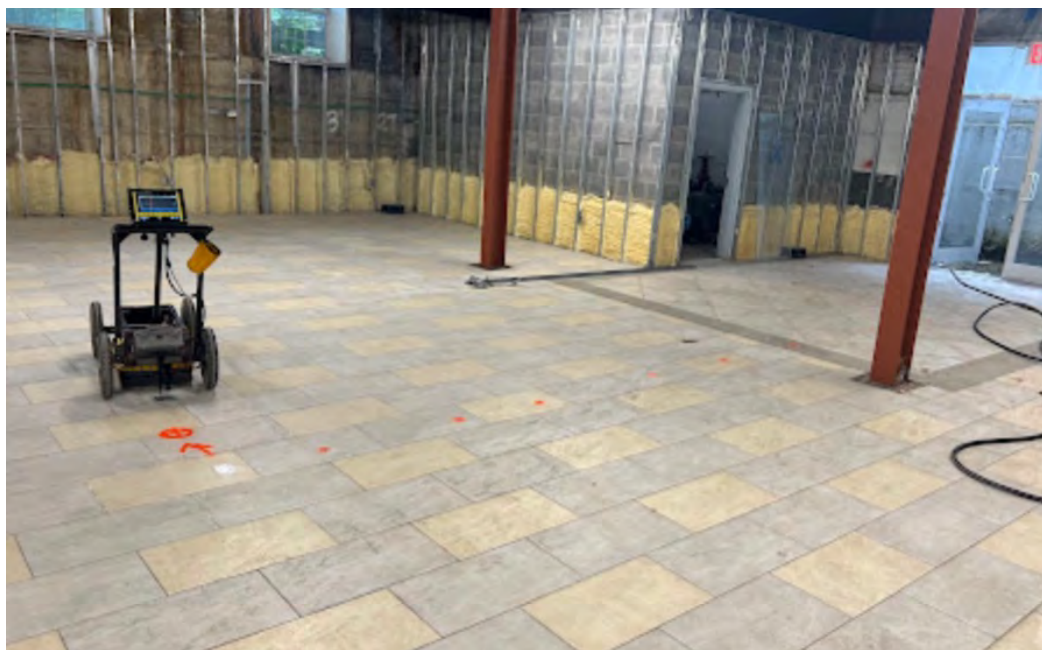
Commercial Property

90-02 Queens Boulevard Queens, New York 11385

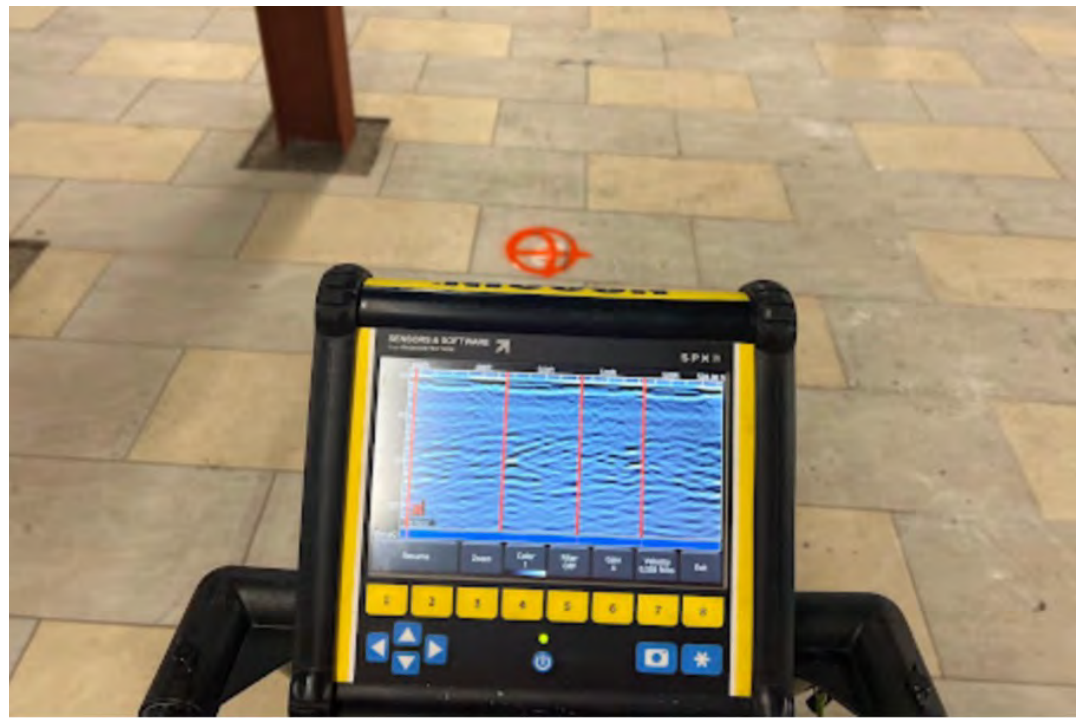
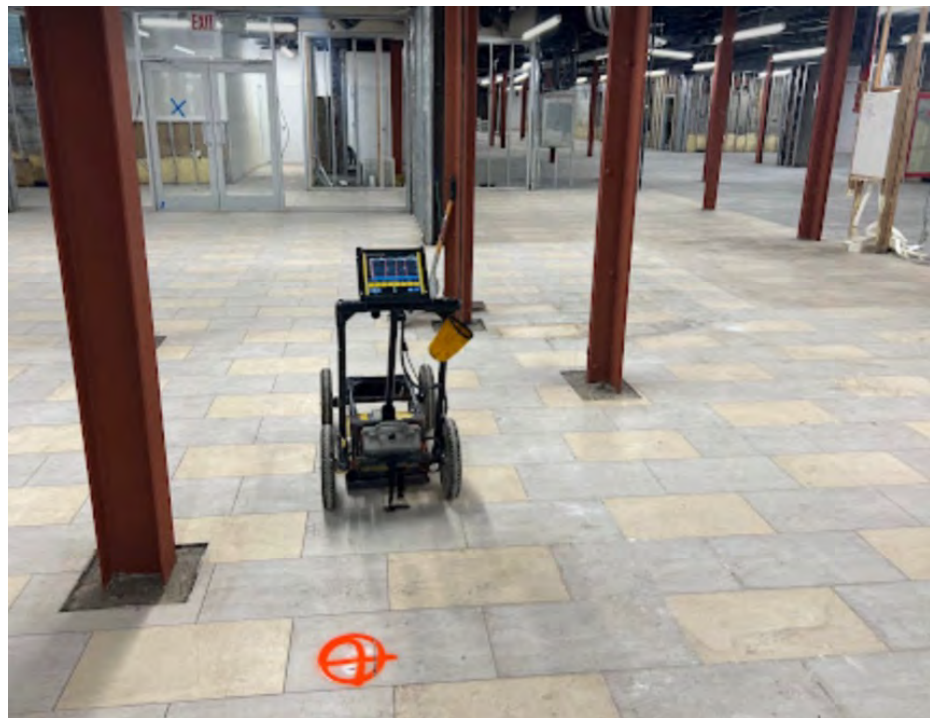
May 15th, 2024



GEOPHYSICAL IMAGES
Commercial Property
90-02 Queens Boulevard Queens, New York 11385
May 15th, 2024

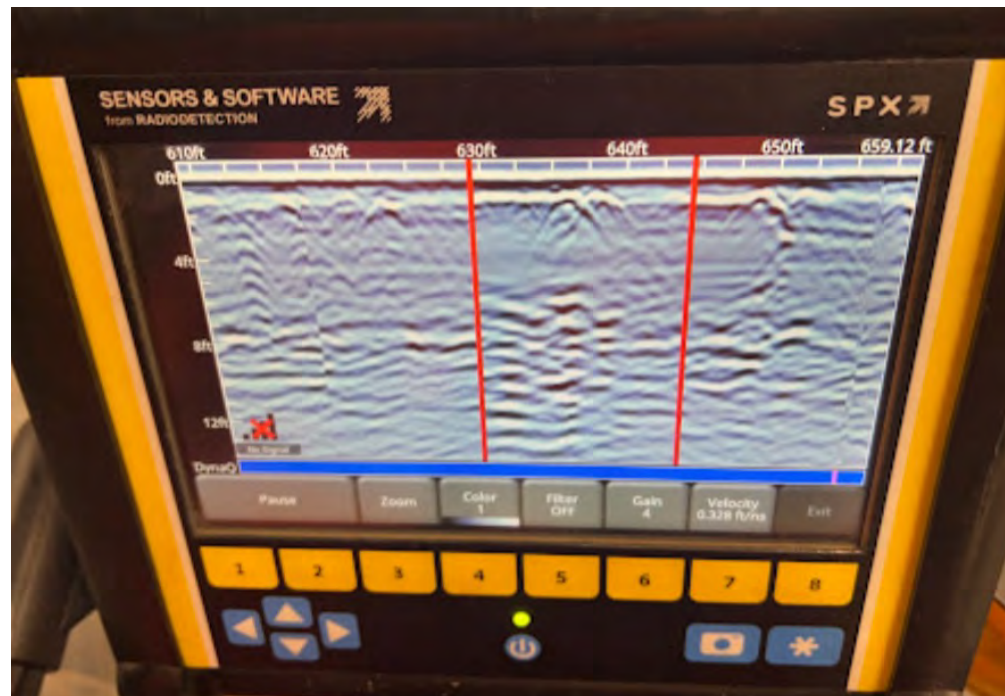


GEOPHYSICAL IMAGES
Commercial Property
90-02 Queens Boulevard Queens, New York 11385
May 15th, 2024



GEOPHYSICAL IMAGES
Commercial Property
90-02 Queens Boulevard Queens, New York 11385
May 15th, 2024





GEOPHYSICAL IMAGES

Commercial Property

90-02 Queens Boulevard Queens, New York 11385

May 15th, 2024



GEOPHYSICAL IMAGES

Commercial Property

90-02 Queens Boulevard Queens, New York 11385

May 15th, 2024



GEOPHYSICAL IMAGES
Commercial Property
90-02 Queens Boulevard Queens, New York 11385
May 15th, 2024



GEOPHYSICAL IMAGES

Commercial Property

90-02 Queens Boulevard Queens, New York 11385

May 15th, 2024

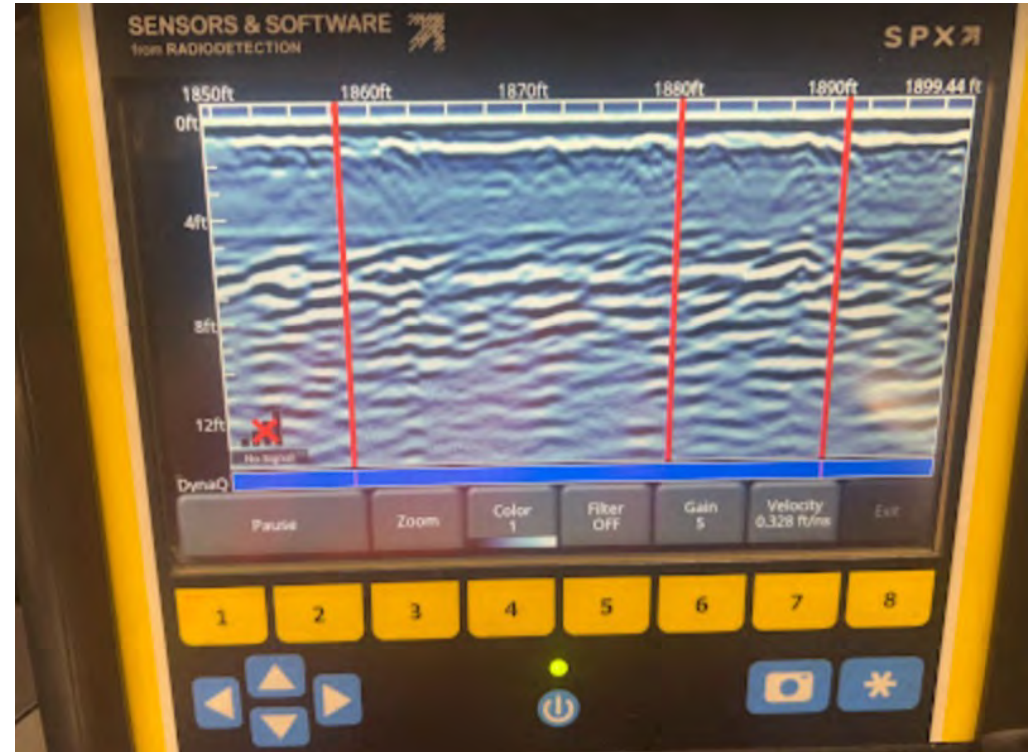


GEOPHYSICAL IMAGES

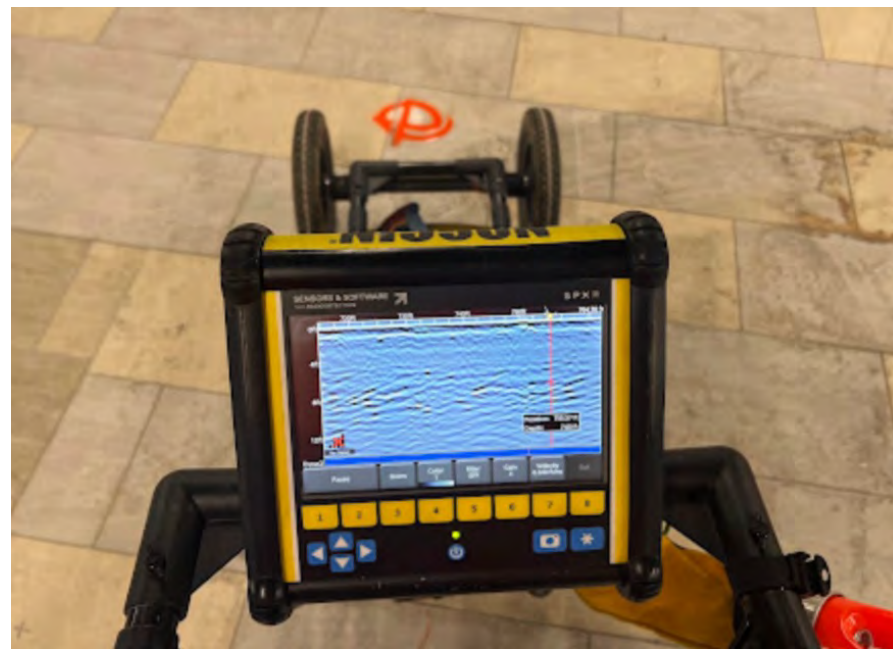
Commercial Property

90-02 Queens Boulevard Queens, New York 11385

May 15th, 2024



GEOPHYSICAL IMAGES
Commercial Property
90-02 Queens Boulevard Queens, New York 11385
May 15th, 2024



APPENDIX C

Soil Boring Logs



SOIL BORING LOG

BORING NO.
HA SB-04
Page 1 of 1

PROJECT	90-02 Queens Boulevard Site Characterization	PROJECT #	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP.	G. Poulton, Z. Richards
CONTRACTOR	Lakewood Environmental Services Corp.	DATE STARTED	5/15/2024
DRILLER	M. Kolasinski, M. White	DATE FINISHED	5/15/2024

Elevation	ft.	Datum	Boring Location	See Plan
Item	Casing	Sampler	Rig Make & Model	Geoprobe 6101
Type	Acetate	Macrocore	☐ Truck ☐ Tripod	☐ Cat-Head
Inside Diameter (in.)	2	2	☐ ATV ☒ Geoprobe	☐ Winch
Hammer Weight (lb.)	N/A	N/A	☐ Track ☐ Air Track	☐ Roller Bit
Hammer Fall (in.)	N/A	N/A	☐ Skid ☐ Other	☐ Cutting Head
Drilling Notes:				

Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
0		0.0		HA-SB-04_0-2	6" Concrete	
1		0.0	0-2		Dark brown to black silty CLAY, no odor, dry [FILL]	
2	13/48	0.0	2-4	HA-SB-04_2-3	Light brown silty CLAY, no odor, moist [CL]	
3		0.0				
4			4-6		Brown silty CLAY, no odor, moist [CL]	
5		0.0				
6	33/48	0.0	6-8		Dark brown silty CLAY, no odor, wet [CL]	
7		0.0				
8		0.0	8-10.5		Dark brown silty CLAY, no odor, wet [CL]	
9		0.0				
10	40/48	0.0	10.5-12		Dark brown silty CLAY, no odor, wet [CL]	
11		0.0				
12					End of Boring at 12 ft bgs	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Water Level Data				Sample ID	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Overburden (Linear ft.) 12
			Water		Rock Cored (Linear ft.) -
					Number of Samples 2
					BORING NO. HA SB-04

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



SOIL BORING LOG

BORING NO.
HA SB-05
Page 1 of 1

PROJECT	90-02 Queens Boulevard Site Characterization	PROJECT #	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP.	G. Poulton, Z. Richards
CONTRACTOR	Lakewood Environmental Services Corp.	DATE STARTED	5/15/2024
DRILLER	M. Kolasinski, M. White	DATE FINISHED	5/15/2024

Elevation	ft.	Datum	Boring Location	See Plan
Item	Casing	Sampler	Rig Make & Model	Geoprobe 6101
Type	Acetate	Macrocore	☐ Truck ☐ Tripod	☐ Cat-Head
Inside Diameter (in.)	2	2	☐ ATV ☒ Geoprobe	☐ Winch
Hammer Weight (lb.)	N/A	N/A	☐ Track ☐ Air Track	☐ Roller Bit
Hammer Fall (in.)	N/A	N/A	☐ Skid ☐ Other	☐ Cutting Head
Drilling Notes:				

Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
0		0.0		HA-SB-05_0-2	6" Concrete	
1		0.0	0-3		Dark brown silty CLAY, no odor, dry [FILL]	
2	24/48	0.0		HA-SB-05_2-3		
3		0.0	3-4		Brown silty CLAY, no odor, dry [CL]	
4		0.0	4-8		Brown, fine SAND with gravel, no odor, moist [SP]	
5		0.0				
6	32/48	0.0				
7		0.0				
8		0.0	8-12		Brown, fine SAND with gravel, no odor, wet [SP]	
9		0.0				
10	48/48	0.0				
11		0.0				
12					End of Boring at 12 ft bgs	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Water Level Data				Sample ID	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Overburden (Linear ft.) 12
			Water		Rock Cored (Linear ft.) -
					Number of Samples 2
					BORING NO. HA SB-05

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



SOIL BORING LOG

BORING NO.
HA SB-06
Page 1 of 1

PROJECT	90-02 Queens Boulevard Site Characterization	PROJECT #	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP.	G. Poulton, Z. Richards
CONTRACTOR	Lakewood Environmental Services Corp.	DATE STARTED	5/15/2024
DRILLER	M. Kolasinski, M. White	DATE FINISHED	5/15/2024

Elevation	ft.	Datum	Boring Location	See Plan
Item	Casing	Sampler	Rig Make & Model	Geoprobe 6101
Type	Acetate	Macrocore	☐ Truck ☐ Tripod	☐ Cat-Head
Inside Diameter (in.)	2	2	☐ ATV ☒ Geoprobe	☐ Winch
Hammer Weight (lb.)	N/A	N/A	☐ Track ☐ Air Track	☐ Roller Bit
Hammer Fall (in.)	N/A	N/A	☐ Skid ☐ Other	☐ Cutting Head
Drilling Notes:				

Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
0		0.0		HA-SB-06_0-2	6" Concrete	
1		0.0	0-2		Dark brown silty CLAY, no odor, dry [FILL]	
2	14/48	0.0	2-4	HA-SB-06_2-3	Light brown silty CLAY, no odor, moist [CL]	
3		0.0				
4			4-6		Gray silty CLAY, no odor, moist [CL]	
5		0.0				
6	30/48	0.0	6-8		Brown silty CLAY, no odor, wet [CL]	
7		0.0				
8			8-10.5		Brown CLAY, no odor, wet [CL]	
9		0.0				
10	18/48	0.0	10.5-12		Brown silty CLAY, no odor, wet [CL]	
11		0.0				
12					End of Boring at 12 ft bgs	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Water Level Data				Sample ID	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Overburden (Linear ft.) 12
			Water		Rock Cored (Linear ft.) -
					Number of Samples 2
					BORING NO. HA SB-06

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



SOIL BORING LOG

BORING NO.
HA SB-07
Page 1 of 1

PROJECT	90-02 Queens Boulevard Site Characterization	PROJECT #	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP.	G. Poulton, Z. Richards
CONTRACTOR	Lakewood Environmental Services Corp.	DATE STARTED	5/15/2024
DRILLER	M. Kolasinski, M. White	DATE FINISHED	5/15/2024

Elevation	ft.	Datum	Boring Location	See Plan
Item	Casing	Sampler	Rig Make & Model	Geoprobe 6101
Type	Acetate	Macrocore	☐ Truck ☐ Tripod	☐ Cat-Head
Inside Diameter (in.)	2	2	☐ ATV ☒ Geoprobe	☐ Winch
Hammer Weight (lb.)	N/A	N/A	☐ Track ☐ Air Track	☐ Roller Bit
Hammer Fall (in.)	N/A	N/A	☐ Skid ☐ Other	☐ Cutting Head
Drilling Notes:				

Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
0		0.0		HA-SB-07_0-2	6" Concrete	
1		0.0	0-2		Dark brown silty CLAY, no odor, dry [FILL]	
2	16/48	0.0	2-4	HA-SB-07_2-3	Dark brown to gray silty CLAY, no odor, moist [FILL]	
3		0.0		MS/MSD		
4		0.0	4-6		Gray silty CLAY, no odor, moist [CL]	
5		0.0				
6	35/48	0.0	6-8		Brown to light brown silty CLAY, no odor, wet [CL]	
7		0.0				
8		0.0	8-10.5		Brown to light brown silty CLAY, no odor, wet [CL]	
9		0.0				
10	40/48	0.0	10.5-12		Brown silty CLAY, no odor, wet [CL]	
11		0.0				
12					End of Boring at 12 ft bgs	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Water Level Data				Sample ID	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Overburden (Linear ft.) 12
			Water		Rock Cored (Linear ft.) -
					Number of Samples 4
					BORING NO. HA SB-07

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



SOIL BORING LOG

BORING NO.
HA SB-08

Page 1 of 1

PROJECT	90-02 Queens Boulevard Site Characterization	PROJECT #	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP.	G. Poulton, Z. Richards
CONTRACTOR	Lakewood Environmental Services Corp.	DATE STARTED	5/15/2024
DRILLER	M. Kolasinski, M. White	DATE FINISHED	5/15/2024

Elevation		ft.	Datum		Boring Location		See Plan							
Item	Casing		Sampler		Rig Make & Model		Geoprobe 6101		Hammer Type		Drilling Mud		Casing Advance	
Type	Acetate		Macrocore		☐ Truck	☐ Tripod	☐ Cat-Head		☐ Safety	☐ Bentonite	Type Method Depth			
Inside Diameter (in.)	2		2		☐ ATV	☒ Geoprobe	☐ Winch		☐ Doughnut	☐ Polymer				
Hammer Weight (lb.)	N/A		N/A		☐ Track	☐ Air Track	☐ Roller Bit		☐ Automatic	☐ None	Direct Push			
Hammer Fall (in.)	N/A		N/A		☐ Skid	☐ Other	☐ Cutting Head	Drilling Notes:						

Depth (ft.)	Recovery (in/tot)	PID (ppm)	Sample Depth (ft)	Sample ID	Visual-Manual Identification & Description (Color, primary component NAME, secondary component, optional descriptions, odor, moisture [SYMBOL])	Remarks
0		0.0		HA-SB-08_0-2	6" Concrete	
1		0.9	0-2	DUP-01_20240515	Dark brown to black silty CLAY, no odor, dry [FILL]	
2	30/48	0.0	2-6	HA-SB-08_2-3	Gray silty CLAY, no odor, moist [CL]	
3		0.0				
4		0.0				
5		1.9				
6	32/48	0.0	6-10.5		Gray silty CLAY, no odor, wet [CL]	
7		0.0				
8		0.0				
9		0.0				
10	44/48	0.0	10.5-12		Gray silty CLAY, no odor, wet [CL]	
11		0.0				
12					End of Boring at 12 ft bgs	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Water Level Data				Sample ID	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Overburden (Linear ft.) 12
			Water		Rock Cored (Linear ft.) -
					Number of Samples 3
					BORING NO. HA SB-08

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

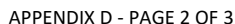
NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.

APPENDIX D

Well Construction Diagrams

	PERMANENT WELL INSTALLATION REPORT		Well No. MW-15
			Boring No. HA SB-04
PROJECT	90-02 Queens Boulevard Site Characterization		H&A FILE NO.
LOCATION	90-02 Queens Boulevard, Queens, NY		PROJECT MGR.
CLIENT	9002 Commercial Unit LLC		FIELD REP.
CONTRACTOR	Lakewood Environmental Services Corp.		DATE INSTALLED
DRILLER	M. Kolasinski, M. White		WATER LEVEL
Ground El. _____ ft		Location See Plan _____	Drilling Equipment _____
El. Datum _____			Geoprobe 6101 / Powerprobe 9100 P
			Guard Pipe ☐
			Roadway Box ☒

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL														
0 Urban Fill 2 Clay	0 Concrete 0.5 Bentonite 1 Filter Sand 10 10		Type of protective cover/lock (circle one): Pent.bolt <u>9/16" hex.</u> 1/2" hex. 7/10" hex. Padlock key no. _____ Height/Depth of top of guard pipe/roadway box above/below ground surface _____ 0.0 ft Height/Depth of top of riser pipe above/below ground surface _____ -0.25 ft Type of protective casing: _____ Flushmount Length _____ 0.58 ft Inside Diameter _____ 4.50 in Depth of bottom of guard pipe/roadway box _____ 0.58 ft <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Type of Seals</th> <th style="text-align: left; border-bottom: 1px solid black;">Top of Seal (ft)</th> <th style="text-align: left; border-bottom: 1px solid black;">Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>0.5</td> </tr> <tr> <td>Bentonite Seal</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>Filter Sand</td> <td>1.0</td> <td>10.0</td> </tr> </tbody> </table> Type of riser pipe: _____ 2-inch PVC Inside diameter of riser pipe _____ 2.0 in Type of backfill around riser _____ N/A Diameter of borehole _____ 8.3 in Depth to top of well screen _____ 1.0 ft Type of screen _____ Machine Slotted PVC Screen gauge or size of openings _____ 0.010 in Diameter of screen _____ 2.0 in Type of backfill around screen _____ 0-filter sand Depth of bottom of well screen _____ 10.0 ft Depth of bottom of borehole _____ 10.0 ft	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	0.5	Bentonite Seal	0.5	0.5	Filter Sand	1.0	10.0
Type of Seals	Top of Seal (ft)	Thickness (ft)													
Concrete	0.0	0.5													
Bentonite Seal	0.5	0.5													
Filter Sand	1.0	10.0													
(Bottom of Exploration) (Numbers refer to depth from ground surface in feet)		(Not to Scale)													
		1 ft + 10 ft = 11 ft Riser Pay Length (L1) Length of Screen (L2) Pay length													
COMMENTS: _____															



	PERMANENT WELL INSTALLATION REPORT		Well No. MW-17
			Boring No. HA SB-08
PROJECT	90-02 Queens Boulevard Site Characterization		H&A FILE NO.
LOCATION	90-02 Queens Boulevard, Queens, NY		PROJECT MGR.
CLIENT	9002 Commercial Unit LLC		FIELD REP.
CONTRACTOR	Lakewood Environmental Services Corp.		DATE INSTALLED
DRILLER	M. Kolasinski, M. White		WATER LEVEL
Ground El. _____ ft		Location See Plan _____	Drilling Equipment _____
El. Datum _____			Geoprobe 6101 / Powerprobe 9100 P
			Guard Pipe ☐
			Roadway Box ☒

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL														
0 Urban Fill 2 Clay 10 10 (Bottom of Exploration) (Numbers refer to depth from ground surface in feet)	0 Concrete 0.5 Bentonite 1		Type of protective cover/lock (circle one): Pent.bolt 9/16" hex. 1/2" hex. 7/10" hex. Padlock key no. _____ Height/Depth of top of guard pipe/roadway box above/below ground surface _____ ft Height/Depth of top of riser pipe above/below ground surface _____ ft Type of protective casing: _____ Length _____ ft Inside Diameter _____ in Depth of bottom of guard pipe/roadway box _____ ft <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0.0</td> <td>0.5</td> </tr> <tr> <td>Bentonite Seal</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>Filter Sand</td> <td>1.0</td> <td>10.0</td> </tr> </tbody> </table> Type of riser pipe: _____ Inside diameter of riser pipe _____ in Type of backfill around riser _____ Diameter of borehole _____ in Depth to top of well screen _____ ft Type of screen _____ Screen gauge or size of openings _____ in Diameter of screen _____ in Type of backfill around screen _____ Depth of bottom of well screen _____ ft Depth of bottom of borehole _____ ft	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.0	0.5	Bentonite Seal	0.5	0.5	Filter Sand	1.0	10.0
Type of Seals	Top of Seal (ft)	Thickness (ft)													
Concrete	0.0	0.5													
Bentonite Seal	0.5	0.5													
Filter Sand	1.0	10.0													
		(Not to Scale)													

1	ft	+	10	ft	=	11	ft
Riser Pay Length (L1)			Length of Screen (L2)			Pay length	

COMMENTS: _____

APPENDIX E

Groundwater Sampling Logs

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	G. Poulton
CONTRACTOR	N/A	DATE	5/23/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-1	Well Volume:	0.43 gal	Start Time:	11:15
Well Depth:	14.27	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	12:10
Depth to Water:	3.41	Well Diameter:	1 inch		

[illegible]

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	G. Poulton
CONTRACTOR	N/A	DATE	5/23/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-2	Well Volume:	0.47 gal	Start Time:	12:55
Well Depth:	14.97	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	13:50
Depth to Water:	3.41	Well Diameter:	1 inch	MS/MSD collected DUP-01_20240523 collected at 12:15	

[illegible]

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	G. Poulton
CONTRACTOR	N/A	DATE	5/24/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-8	Well Volume:	0.35 gal	Start Time:	10:05
Well Depth:	16.86	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	10:45
Depth to Water:	8.14	Well Diameter:	1 inch		

[illegible]

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	G. Poulton
CONTRACTOR	N/A	DATE	5/24/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	<u>MW-10</u>	Well Volume:	<u>0.37 gal</u>	Start Time:	<u>9:05</u>
Well Depth:	<u>18.91</u>	Equipment:	<u>Peristaltic Pump, Horiba, Interface Probe</u>	Sample Time:	<u>9:50</u>
Depth to Water:	9.6	Well Diameter:	1 inch		

[illegible]

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	A. Stewart
CONTRACTOR	N/A	DATE	5/23/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-11	Well Volume:	0.37 gal	Start Time:	12:30
Well Depth:	12.56	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	14:45
Depth to Water:	3.23	Well Diameter:	1 inch		

Time	Volume purged, gallons	Temp, C (+/- 3%)	Conductivity, us/cm (+/- 3%)	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/- 0.1)	ORP/eH, mv (+/- 10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
12:30	0.00	20.26	1050	0.00	7.25	86	477	4.14
12:35	0.25	20.35	1050	0.00	7.23	80	459	4.89
12:40	0.50	20.33	1050	0.00	7.21	77	443	5.20
12:45	0.75	19.98	1060	0.00	7.19	71	398	5.90
12:50	1.00	19.75	1060	0.00	7.18	70	401	6.52
12:55	1.25	19.79	1060	0.00	7.17	69	331	6.52
13:00	1.50	19.78	1060	0.00	7.15	68	401	6.53
Purge silt from well								
13:25	3.00	19.16	1070	0.00	7.12	71	158	7.47
13:30	3.25	19.10	1060	0.00	7.13	70	232	7.45
13:35	3.50	19.02	1070	0.00	7.12	69	137	7.48
Purge silt from well								
14:30	6.00	20.21	1150	0.00	6.98	110	167	7.45
14:35	6.25	19.79	945	0.00	7.15	85	60.20	7.45
14:40	6.50	19.67	947	0.00	7.15	83	62.70	7.48
14:45	6.75	19.70	946	0.00	7.15	75	59.20	7.49

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	G. Poulton
CONTRACTOR	N/A	DATE	5/23/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-12	Well Volume:	0.27 gal	Start Time:	9:35
Well Depth:	9.69	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	10:30
Depth to Water:	3.07	Well Diameter:	1 inch		

[illegible]

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	S. Thomsen
CONTRACTOR	N/A	DATE	5/24/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-15	Well Volume:	1.20 gal	Start Time:	8:00
Well Depth:	10.49	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	11:25
Depth to Water:	3.16	Well Diameter:	2 inch		

Time	Volume purged, gallons	Temp, C (+/- 3%)	Conductivity, us/cm (+/- 3%)	Dissolved Oxygen, mg/L (+/- 10%)	pH (+/- 0.1)	ORP/eH, mv (+/- 10mv)	Turbidity, NTU (<5 NTU)	Depth to Water (ft)
8:05	0.75	21.38	814	0.00	7.60	161	783	3.46
8:10	1.00	21.53	821	0.00	7.68	162	508	3.47
8:15	1.25	21.68	826	0.00	7.64	87.00	494	3.47
8:25	1.75	21.72	832	0.00	7.54	40.00	477	3.46
8:30	2.00	22.28	836	1.21	7.55	28.00	494	3.47
8:35	2.25	21.30	863	37.00	7.49	36.00	476	3.48
8:40	2.50	21.02	851	49.10	7.53	32.00	467	3.48
8:45	2.75	20.93	851	8.58	7.50	27.00	449	3.48
8:50	3.00	20.87	851	8.01	7.48	26.00	430	3.47
8:55	3.25	21.16	842	7.32	7.46	33.00	410	3.46
9:00	3.50	21.03	851	74.20	7.41	19.00	392	3.46
9:05	3.75	20.56	859	6.09	7.36	29.00	362	3.46
9:10	4.00	20.54	859	6.05	7.48	30.00	359	3.46
9:15	4.25	20.56	858	6.08	7.36	31.00	342	3.46

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	A. Stewart
CONTRACTOR	N/A	DATE	5/24/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-16	Well Volume:	1.25 gal	Start Time:	9:45
Well Depth:	10.66	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	11:45
Depth to Water:	3.01	Well Diameter:	2 inch		

[illegible]

Groundwater Purge/Sample Log



LOW-FLOW GROUNDWATER SAMPLING RECORD

PROJECT	90-02 Queens Boulevard Site Characterization	H&A FILE NO.	0208933
LOCATION	90-02 Queens Boulevard, Queens, NY	PROJECT MGR.	M. Levy
CLIENT	9002 Commercial Unit LLC	FIELD REP	G. Poulton
CONTRACTOR	N/A	DATE	5/24/2024

GROUNDWATER SAMPLING INFORMATION

Well ID:	MW-17	Well Volume:	1.21 gal	Start Time:	7:15
Well Depth:	10.57	Equipment:	Peristaltic Pump, Horiba, Interface Probe	Sample Time:	8:00
Depth to Water:	3.11	Well Diameter:	2 inch		

[illegible]

APPENDIX F
Soil Vapor Purge Logs



SOIL VAPOR SAMPLING LOG

Project Name/Location:

90-02 Queens Boulevard Site Characterization

Project Number: 0208933

Site: 90-02 Queens Boulevard, Queens, NY
Date Collected: 5/16/2024
Personnel: G. Poulton
Weather: Clear, 65°F
Humidity: 85%

Sample ID	Caniser Size	Canister ID	Flow Controller ID	Sample Start Time	Canister Start Pressure ("Hg)	Sample End Time	Canister End Pressure ("Hg)	Sample Start Date	Sample Type	Analyses Method
HA-SS-05	6L	5607	0905	9:05	-30.00	16:35	-7.00	5/16/2024	Sub-slab	T0-15
HA-IA-05	6L	3416	5244	10:45	-30.00	18:15	-10.00	5/16/2024	Indoor Air	T0-15
HA-SS-06	6L	3400144	30488	9:26	-28.00	17:00	-10.00	5/16/2024	Sub-slab	T0-15
HA-IA-06	6L	5139	4530	9:25	-29.00	17:00	-9.00	5/16/2024	Indoor Air	T0-15
HA-SS-04	6L	3197	4530	9:36	-30.00	17:30	-12.00	5/16/2024	Sub-slab	T0-15
HA-IA-04	6L	3544	6551	9:35	-29.00	17:05	-7.00	5/16/2024	Indoor Air	T0-15
HA-SS-07	6L	34000514	3119	9:50	-30.00	17:20	-8.00	5/16/2024	Sub-slab	T0-15
HA-IA-07	6L	5679	3121	9:51	-30.00	17:20	-9.00	5/16/2024	Indoor Air	T0-15
HA-SS-10	6L	4015	4748	10:06	-26.00	17:40	-7.00	5/16/2024	Sub-slab	T0-15
HA-IA-10	6L	5449	7662	10:05	-30.00	17:40	-9.00	5/16/2024	Indoor Air	T0-15
HA-SS-09	6L	3462	3743	10:29	-29.00	18:05	-8.00	5/16/2024	Sub-slab	T0-15
HA-IA-09	6L	2879	3698	10:30	-30.00	18:00	-6.00	5/16/2024	Sub-slab	T0-15
HA-SS-08	6L	3453	3433	10:41	-30.00	15:00	-5.00	5/16/2024	Sub-slab	T0-15
HA-IA-08	6L	9256	3171	10:40	-30.00	18:10	-7.00	5/16/2024	Sub-slab	T0-15
HA-AA-12	6L	3084	3935	10:05	-30.00	17:00	-4.00	5/16/2024	Sub-slab	T0-15

Notes:

*Summas and flow regulators provided by Eurofins
Analyses for VOCs by Method TO-15*



SOIL VAPOR SAMPLING LOG

Project Name/Location:

90-02 Queens Boulevard Site Characterization

Project Number: 0208933

Site: 90-02 Queens Boulevard, Queens, NY
Date Collected: 5/23/2024
Personnel: G. Poulton
Weather: Clear, 60°F
Humidity: 64%

Sample ID	Caniser Size	Canister ID	Flow Controller ID	Sample Start Time	Canister Start Pressure ("Hg)	Sample End Time	Canister End Pressure ("Hg)	Sample Start Date	Sample Type	Analyses Method
HA-SS-11	6L	34001584	4535	8:25	-29.00	16:05	-7	5/23/2024	Sub-slab	T0-15
HA-IA-11	6L	4224	4737	8:30	-30.00	16:10	-7	5/23/2024	Indoor Air	T0-15

Notes:

Summas and flow regulators provided by Eurofins

Analyses for VOCs by Method TO-15

APPENDIX G

Analytical Laboratory Reports

APPENDIX H

Data Usability Summary Reports

Data Usability Summary Report

Project Name: 90-02 Queens Boulevard

Project Description: Soil, Water, Air, and Soil Vapor Samples

Sample Date(s): August 2023-May 2024

Analytical Laboratory: Eurofins Burlington – South Burlington, VT

Eurofins Cleveland – Barberton, OH

Eurofins Edison – Edison, NJ

Validation Performed by: Eric Hitchens

Validation Reviewed by: Kristina Ilina

Validation Date: 19 June 2024

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDGs) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers**
 - 2. Precision and Accuracy [for SDG(s) above]**
 - 3. Explanations**
 - 4. Glossary**
 - 5. Abbreviations**
 - 6. Qualifiers**
- References**

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- National Functional Guidelines (NFG) for Organic Data Review.
- Analysis of Volatile Organic Compounds (VOCs) in Air Contained in Canisters by Method TO-15.
- Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.3, Table B-15.
- DoD Data Validation Guidelines Module 3: Data Validation Procedure for per- and polyfluoroalkyl substances (PFAS) by QSM Table B-15.
- The QSM was used as a reference only. These samples were analyzed for PFAS using a laboratory-specific method and were not analyzed in accordance with DoD protocol.

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers listed in Table 1A. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Analyses were performed on the samples listed in Table 1B. Method holding times are listed in Table 2.

1.2 CASE NARRATIVE

The laboratory report case narrative lists various additional quality control issues, such as internal standard exceedances and initial calibration verification (ICV) and/or continuing calibration verification (CCV) exceedances. Since these additional quality control issues were not required for the project's DQOs, these quality control issues were not reviewed. Additional issues listed in the laboratory report case narratives are listed in Table 3.

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Samples collected in summa canisters are pressurized by the laboratory.

1.5 REPORTING BASIS (WET/DRY)

[Refer to Section E 1.1.](#) Soil data in this SDG were reported on a dry weight basis.

1.6 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits. Any exceptions are noted in Table 4A. Surrogate targets are noted in Table 4B.

1.7 ISOTOPE DILUTION

[Refer to Section E 1.27.](#) Isotope dilution compound recoveries were within the specified limits. Any exceptions are noted in Table 5.

1.8 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits. Any exceptions are noted in Table 6.

1.9 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) The sample(s) listed in Table 7A were used for matrix spike/matrix spike duplicate (MS/MSD) analysis. The MS/MSD recoveries and the relative percent difference (RPD) between the MS and MSD results were within the specified limits, with the following exceptions:

- In cases where the parent sample dilution factor was $\geq 5x$, data was not qualified.
- In cases where the native sample results were $\geq 4x$ the spike added, data was not qualified.
- Any additional exceptions are noted in Table 7B.

1.10 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples had no detections, indicating that no contamination from laboratory activities occurred. Any exceptions are noted in Table 8A.

The analysis of the blank samples for field quality control was free of target compounds. Any exceptions are noted in Table 8B.

1.11 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The sample(s) listed in Table 9A were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted in Table 9B.

The sample(s) listed in Table 9C were used for field duplicate analysis. The RPD comparison for detections in either the parent or duplicate sample(s) is shown below. RPDs were all below 35 percent for water/air and 50 percent for soil/sediment (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted in Table 9D.

1.12 ESTIMATED MAXIMUM POSSIBLE CONCENTRATION (EMPC)

[Refer to Section E 1.9.](#) The laboratory reported the EMPC flags listed in Table 10.

1.13 CLEAN CANISTER CERTIFICATION

The canisters used for the TO-15 sample collection were certified clean by batch can analysis prior to sampling to ensure that no target analytes were present. These analysis sheets were reviewed, and no target analytes were detected in the laboratory-provided canisters.

1.14 PFAS SAMPLE PREPARATION

[Refer to Section E 1.14.](#) The laboratory's SOP was reviewed, and the reviewer confirmed it is the laboratory's procedure to use solid-phase extraction (SPE) for sample preparation. The entire sample plus sample bottle rinsate was extracted. No data qualification required.

The case narrative notes sample preparation abnormalities that are shown in Table 11.

1.15 PFAS IDENTIFICATION

[Refer to Section E 1.15.](#) Ion ratios were reviewed and were within the laboratory specified limits, with the following exceptions:

- Ion ratios could not be reviewed for SDG 460-304031-1 because the laboratory did not provide an ion ratio summary.
- Any additional exceptions are listed in Table 12.

1.16 EXTRACTION INTERNAL STANDARDS

[Refer to Section E 1.16.](#) Recoveries were reviewed and found to be within the limits of 50 to 150 percent of the initial calibration (ICAL) midpoint standard/ initial continuing calibration verification (CCV). Any exceptions are noted in Table 5.

1.17 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. A summary of qualifiers applied to this dataset is shown in Table 13.

2. Precision and Accuracy [for SDG(s) above]

[Refer to Section E 1.7.](#) Some measurement of analytical accuracy and precision was reported for each method with the site samples.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
 - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations were made to compensate for the moisture content of the soil sample.
 - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
 - Field blanks are prepared to identify contamination that may have been introduced during field activity. Equipment blanks are prepared to identify contamination that may have been introduced while decontaminating sampling equipment. Trip blanks are prepared when volatile analysis is requested to identify contamination that may have been introduced during transport.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.

- The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The relative percent difference (RPD) or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.
- E 1.9 Estimated Maximum Possible Concentration
 - An Estimated Maximum Possible Concentration (EMPC) is a worst-case estimate of the concentration for a dioxin/furan or PCB based on all identification criteria being met except the ion abundance ratio criteria, or if a peak representing a chlorinated diphenyl ether was detected.
- E 1.13 QLC/MS/MS Tune Check
 - Analysis of Per- and Polyfluoroalkyl Substances (PFAS) requires a tune check for the mass calibration. Mass calibration range must bracket the ion masses of interest.
- E 1.14 PFAS Sample Preparation
 - Analysis of PFAS requires specific sample preparation. Aqueous samples must be prepared using Solid Phase Extraction (SPE), unless samples are known to contain high PFAS concentrations or the samples are injected directly into the LC/MS/MS instrument. Samples with greater than 1 percent solids may require centrifugation prior to SPE. The entire sample plus bottle rinsate must be extracted using SPE. If high PFAS concentrations are known, the samples may alternately be prepared using serial dilution performed in duplicate. If prepared by serial dilution, there must be documented project approval for this deviation.
- E 1.15 PFAS Identification
 - Identification of PFAS requires dual confirmation. The chemical derivation of the ion transitions must be documented. A minimum of two ion transitions per analyte are required (except for PFBA and PFPeA). Ratios of the quantitation ion to the confirmation ion should be calculated for samples and be within 50 to 150 percent of the ratios of the quantitation ion to the confirmation ion for standards.
 - Identification of PFAS also requires the proper assessment of branched and linear peaks. Standards for both isomers are not currently available for every PFAS compound, resulting in the common error of quantifying the area of only the branched or the linear isomers, which results in erroneous concentrations.

- E 1.16 Extraction Internal Standards
 - Analysis of PFAS by isotope dilution includes the use of extracted internal standards, which are stable isotope analogs of the PFAS compounds of interest added to each sample prior to extraction of the sample matrix. Matrix interferences that affect the quantification of the internal standard will affect the calculated target compound concentrations.
- E 1.27 Isotope Dilution
 - Isotope dilution compounds are compounds added to each sample prior to sample preparation to measure signal ratios.

4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - $\mu\text{g/kg}$ micrograms per kilogram
 - $\mu\text{g/L}$ micrograms per liter
 - $\mu\text{g/m}^3$ micrograms per cubic meter
 - mg/kg milligrams per kilogram
 - mg/L milligrams per liter
 - ppb v/v parts per billion volume/volume
 - pCi/L picocuries per liter
 - pg/g picograms per gram
 - pg/L picograms per liter
- Matrices:
 - AA Ambient Air
 - GS Soil Gas
 - GW/WG Groundwater
 - QW Water Quality
 - IA Indoor Air
 - SE Sediment
 - SO Soil
 - SSV Sub-slab Vapor
 - WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - $\leq$ less than or equal to
 - > greater than
 - $\geq$ greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - $\pm$ plus or minus
 - $\sim$ approximately
 - x times (multiplier)

- Fractions:
 - N Normal (method cannot be filtered)
 - D Dissolved (filtered)
 - T Total (unfiltered)

5. Abbreviations

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of Environmental Conservation
amu	atomic mass unit	PAH	Polycyclic Aromatic Hydrocarbon
BPJ	Best Professional Judgement	PCB	Polychlorinated Biphenyl
BS	Blank Spike	PDS	Post-Digestion Spike
CCB	Continuing Calibration Blank	PEM	Performance Evaluation Mixture
CCV	Continuing Calibration Verification	PFAS	Per- and Polyfluoroalkyl Substances
CCVL	Continuing Calibration Verification Low	PFBA	Perfluorobutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM	Quality Systems Manual
EIS	Extraction Internal Standard	R ²	R-squared value
EMPC	Estimated Maximum Possible Concentration	Ra-226	Radium-226
FBK	Field Blank Contamination	Ra-228	Radium-228
FDP	Field Duplicate	RESC	Resolution Check Measure
GC	Gas Chromatograph	RL	Laboratory Reporting Limit
GC/MS	Gas Chromatography/Mass Spectrometry	RPD	Relative Percent Difference
GPC	Gel Permeation Chromatography	RRF	Relative Response Factor
H ₂	Hydrogen gas	RT	Retention Time
HCl	Hydrochloric Acid	SAP	Sampling Analysis Plan
ICAL	Initial Calibration	SDG	Sample Delivery Group
ICB	Initial Calibration Blank	SIM	Selected ion monitoring
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry	SOP	Standard Operating Procedure
ICV	Initial Calibration Verification	SPE	Solid-Phase Extraction
ICVL	Initial Calibration Verification Low	SVOC	Semi-Volatile Organic Compound
IPA	Isopropyl Alcohol	TCLP	Toxicity Characteristic Leaching Procedure
LC	Laboratory Control	TIC	Tentatively Identified Compound
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate	TKN	Total Kjeldahl Nitrogen
MBK	Method Blank Contamination	TPH	Total Petroleum Hydrocarbon
MDC	Minimum Detectable Concentration	TPU	Total Propagated Uncertainty
		USEPA	U.S. Environmental Protection Agency
		VOC	Volatile Organic Compound
		WP	Work Plan

6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:
 - U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or “ND”.
 - B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers:
 - E The compound was quantitated above the calibration range.
 - D The concentration is based on a diluted sample analysis.
- Validation Qualifiers:
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.
 - UJ The compound was not detected. The reported sample quantitation limit is approximate.
 - NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.
 - R The sample results were rejected as unusable; the compound may or may not be present in the sample.
 - S Result is suspect. See DUSR for details.

References

1. United States Department of Defense, 2021. Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4, Table B-15: Per- and Polyfluoroalkyl Substances (PFAS) Using Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS) With Isotope Dilution or Internal Standard Quantification in Matrices Other Than Drinking Water.
2. United States Department of Defense and Environmental Data Quality Workgroup, 2020. Data Validation Guidelines Module 3: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-15. May.
3. United States Environmental Protection Agency, 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP NO. HW-31, Revision 6. June.
4. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
5. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

Attachments:

Table 1A – Sample Delivery Groups
Table 1B – Sample Information
Table 2 – Method Holding Times
Table 3 – Case Narratives
Table 4A – Surrogate Recovery Compliance
Table 4B – Surrogate Target Compounds
Table 5 – Isotope Dilution/Extraction Internal Standards
Table 6 – Laboratory Control Samples
Table 7A – Matrix Spike Samples
Table 7B – Matrix Spike Exceedances
Table 8A – Method Blank Exceedances
Table 8B – Trip Blank Exceedances
Table 9A – Laboratory Duplicate Pairs
Table 9B – Laboratory Duplicate Exceedances
Table 9C – Field Duplicate Pairs
Table 9D – Field Duplicate Exceedances
Table 10 – EMPC Qualifiers
Table 11 – PFAS Sample Preparation
Table 12 – PFAS Identification
Table 13 – System Performance Summary

TABLES

TABLE 1A
SAMPLE DELIVERY GROUPS
90-02 QUEENS BOULEVARD
BRONX, NEW YORK

Sample Delivery Group
200693881
200735801
200736661
4602854681
4603040311
4603040321
4603045231
4603045411
4603046461
4603046471
4603047881

TABLE 1B
SAMPLE INFORMATION
90-02 QUEENS BOULEVARD
BRONX, NEW YORK

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods ¹
HA SS-01-20230803	N	200-69388-1	08/03/2023	GS	A
HA SS-02-20230803	N	200-69388-2	08/03/2023	GS	A
HA SS-03-20230803	N	200-69388-3	08/03/2023	GS	A
HA-SS-05-20240516	N	200-73580-1	05/16/2024	GS	A
HA-IA-05-20240516	N	200-73580-2	05/16/2024	AA	A
HA-SS-06-20240516	N	200-73580-3	05/16/2024	GS	A
HA-IA-06-20240516	N	200-73580-4	05/16/2024	AA	A
HA-SS-04-20240516	N	200-73580-5	05/16/2024	GS	A
HA-IA-04-20240516	N	200-73580-6	05/16/2024	AA	A
HA-SS-07-20240516	N	200-73580-7	05/16/2024	GS	A
HA-IA-07-20240516	N	200-73580-8	05/16/2024	AA	A
HA-SS-10-20240516	N	200-73580-9	05/16/2024	GS	A
HA-IA-10-20240516	N	200-73580-10	05/16/2024	AA	A
HA-SS-09-20240516	N	200-73580-11	05/16/2024	GS	A
HA-IA-09-20240516	N	200-73580-12	05/16/2024	AA	A
HA-SS-08-20240516	N	200-73580-13	05/16/2024	GS	A
HA-IA-08-20240516	N	200-73580-14	05/16/2024	AA	A
HA-AA-12-20240516	N	200-73580-15	05/16/2024	AA	A
HA-SS-11	N	200-73666-1	05/23/2024	GS	A
HA-IA-11	N	200-73666-2	05/23/2024	AA	A
HA SB-02_0-2	N	460-285468-1	08/03/2023	SO	B
HA SB-02_5.5-6	N	460-285468-2	08/03/2023	SO	B
HA SB-03_0-2	N	460-285468-3	08/03/2023	SO	B
HA SB-03_5.5-6	N	460-285468-4	08/03/2023	SO	B
HA SB-01_0-2	N	460-285468-5	08/03/2023	SO	B
HA SB-01_5.5-6	N	460-285468-6	08/03/2023	SO	B
HA TWP-01-20230803	N	460-285468-7	08/03/2023	WG	B
MW-1-20230803	N	460-285468-8	08/03/2023	WG	B
MW-2-20230803	N	460-285468-9	08/03/2023	WG	B
MW-11-20230803	N	460-285468-10	08/03/2023	WG	B
TB-01_20230803	TB	460-285468-11	08/03/2023	WG	B
HA-SB-05_0-2	N	460-304031-1	05/15/2024	SO	C
HA-SB-05_2-3	N	460-304031-2	05/15/2024	SO	C
HA-SB-08_0-2	N	460-304031-3	05/15/2024	SO	C
HA-SB-08_2-3	N	460-304031-4	05/15/2024	SO	C
HA-SB-07_0-2	N	460-304031-5	05/15/2024	SO	C
HA-SB-07_2-3	N	460-304031-6	05/15/2024	SO	C
HA-SB-04_0-2	N	460-304031-7	05/15/2024	SO	C
HA-SB-04_2-3	N	460-304031-8	05/15/2024	SO	C

TABLE 1B
SAMPLE INFORMATION
90-02 QUEENS BOULEVARD
BRONX, NEW YORK

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods ¹
HA-SB-06_0-2	N	460-304031-9	05/15/2024	SO	C
HA-SB-06_2-3	N	460-304031-10	05/15/2024	SO	C
FB-01_20240515	FB	460-304031-11	05/15/2024	WQ	C
EB-01_20240515	EB	460-304031-12	05/15/2024	WQ	C
DUP-01_20240515	FD	460-304031-13	05/15/2024	SO	C
HA-SB-05_0-2	N	460-304032-1	05/15/2024	SO	B, D, E, F, G, H
HA-SB-05_2-3	N	460-304032-2	05/15/2024	SO	B, D, E, F, G, H
HA-SB-04_0-2	N	460-304032-3	05/15/2024	SO	B, D, E, F, G, H
HA-SB-04_2-3	N	460-304032-4	05/15/2024	SO	B, D, E, F, G, H
HA-SB-08_0-2	N	460-304032-5	05/15/2024	SO	B, D, E, F, G, H
HA-SB-08_2-3	N	460-304032-6	05/15/2024	SO	B, D, E, F, G, H
HA-SB-07_0-2	N	460-304032-7	05/15/2024	SO	B, D, E, F, G, H
HA-SB-07_2-3	N	460-304032-8	05/15/2024	SO	B, D, E, F, G, H
HA-SB-06_0-2	N	460-304032-9	05/15/2024	SO	B, D, E, F, G, H
HA-SB-06_2-3	N	460-304032-10	05/15/2024	SO	B, D, E, F, G, H
FB-01_20240515	FB	460-304032-11	05/15/2024	WQ	B, D, F, G, H, I, J
DUP-01_20240515	FD	460-304032-12	05/15/2024	SO	B, D, E, F, G, H
TB-01_20240515	TB	460-304032-13	05/15/2024	WQ	B
MW-12_20240523	N	460-304523-1	05/23/2024	WG	C
MW-1_20240523	N	460-304523-2	05/23/2024	WG	C
MW-2_20240523	N	460-304523-3	05/23/2024	WG	C
DUP-01_20240523	FD	460-304523-4	05/23/2024	WG	C
MW-11_20240523	N	460-304523-5	05/23/2024	WG	C
FB-01_20240523	FB	460-304523-6	05/23/2024	WQ	C
EB-01_20240523	EB	460-304523-7	05/23/2024	WQ	C
MW-12_20240523	N	460-304541-1	05/23/2024	WG	B, D, F, G, H, I, J
MW-1_20240523	N	460-304541-2	05/23/2024	WG	B, D, F, G, H, I, J
MW-2_20240523	N	460-304541-3	05/23/2024	WG	B, D, F, G, H, I, J
DUP-01_20240523	FD	460-304541-4	05/23/2024	WG	B, D, F, G, H, I, J
MW-11_20240523	N	460-304541-5	05/23/2024	WG	B, D, F, G, H, I, J
FB-01_20240523	FB	460-304541-6	05/23/2024	WQ	B, D, F, G, H, I, J
TB-01_20240523	TB	460-304541-7	05/23/2024	WQ	B
TB-02_20240523	TB	460-304541-8	05/23/2024	WQ	B
MW-17_20240524	N	460-304646-1	05/24/2024	WG	B, D, F, G, H, I, J
MW-10_20240524	N	460-304646-2	05/24/2024	WG	B, D, F, G, H, I, J
MW-8_20240524	N	460-304646-3	05/24/2024	WG	B, F, G, H, J
MW-16_20240524	N	460-304646-4	05/24/2024	WG	B, D, F, G, H, I, J
MW-15_20240524	N	460-304646-5	05/24/2024	WG	B, D, F, G, H, I, J
MW-17_20240524	N	460-304647-1	05/24/2024	WG	C

TABLE 1B
SAMPLE INFORMATION
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods ¹
MW-10_20240524	N	460-304647-2	05/24/2024	WG	C
MW-8_20240524	N	460-304647-3	05/24/2024	WG	C
MW-16_20240524	N	460-304647-4	05/24/2024	WG	C
MW-15_20240524	N	460-304647-5	05/24/2024	WG	C
EB-01_20240524	EB	460-304647-6	05/24/2024	WQ	C
MW-1_20240528	N	460-304788-1	05/28/2024	WG	D, I
MW-2_20240528	N	460-304788-2	05/28/2024	WG	D, I
DUP-01_20240528	FD	460-304788-3	05/28/2024	WG	D, I
MW-8_20240528	N	460-304788-4	05/28/2024	WG	D, I
MW-11_20240528	N	460-304788-5	05/28/2024	WG	D, I
MW-12_20240528	N	460-304788-6	05/28/2024	WG	D, I
MW-15_20240528	N	460-304788-7	05/28/2024	WG	D, I
MW-16_20240528	N	460-304788-8	05/28/2024	WG	D, I
MW-17_20240528	N	460-304788-9	05/28/2024	WG	D, I
FB-01_20240528	FB	460-304788-10	05/28/2024	WQ	D, I
MW-10_20240528	N	460-304788-11	05/28/2024	WG	D, I

Notes:

1. See Table 2

TABLE 2
METHOD HOLDING TIMES
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Letter Code	Method	Description	Holding Time(s)
A	TO15	Volatile Organic Compounds (VOCs) in Air	30 days
B	SW8260D	Volatile Organic Compounds (VOCs)	14 days for solid, preserved 14 days for solid unpreserved, 14 days for liquid, preserved 7 days for liquid unpreserved
C	E1633	Per- and Polyfluoroalkyl Substances (PFAS)	14 days extraction / 28 days analysis
D	SW6020B	Metals	180 days for solid unpreserved, 180 days for liquid, preserved
E	SW7471B	Mercury (in Solids)	28 days extraction / 48 hours analysis for solid, unpreserved
F	SW8081B	Organochlorine Pesticides	7 days extraction / 40 days analysis for liquid, unpreserved 14 days extraction / 40 days analysis for solid, unpreserved
G	SW8082A	Polychlorinated Biphenyls (PCBs)	7 days extraction / 40 days analysis for liquid, unpreserved 14 days extraction / 40 days analysis for solid, unpreserved
H	SW8270E	Semivolatile Organic Compounds (SVOCs)	14 days extraction / 40 days analysis for solid, unpreserved, 7 days extraction / 40 days analysis for liquid, unpreserved
I	SW7470A	Mercury (in Liquids)	28 days extraction / 48 hours analysis for liquid, preserved
J	SW8270ESIM	Semivolatile Organic Compounds (SVOCs)	7 days extraction / 40 days analysis for liquid, unpreserved

TABLE 3**CASE NARRATIVES**

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

SDG	Comment
200-73580-1	The flow controller received for sample "HA-SS-08" was asset ID 3933, not 3433 as recorded on Chain-of-Custody (COC).
200-73580-1	During the canister pressure check performed upon receipt it was observed that the following sample was received at an elevated residual vacuum level: HA-SS-04. The associated flow controller was evaluated upon receipt and found to be outside the acceptable flow range as compared to the original set flow rate. The residual vacuum for sample "HASS-04" was just above the target range. <u>Qualify sample data J/UJ.</u>
Multiple	Samples were not filtered within 15 minutes of arrival at the laboratory; however, samples were field filtered prior to analysis. Therefore, no qualifiers were applied.

TABLE 4A
SURROGATE RECOVERY COMPLIANCE
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

SDG	Method	Lab Sample ID	Surrogate	Dilution	%R	Qualification
460-304541-1	8270E	4	Phenol-d5	1x	60	J-/UJ target compounds
460-304541-1	8270E	5	Phenol-d5	1x	63	J-/UJ target compounds
460-304541-1	8270E	6	Phenol-d5	1x	57	J-/UJ target compounds
460-304541-1	8270E	5	2-Fluorobiphenyl	1x	83	J-/UJ target compounds
460-304541-1	8081B	5	DCB Decachlorobiphenyl	1x	170	None, sample is ND
460-304541-1	8081B	5	DCB Decachlorobiphenyl	1x	183	None, sample is ND
460-304541-1	8081B	5	Tetrachloro-m-xylene	1x	176	None, sample is ND
460-304541-1	8081B	5	Tetrachloro-m-xylene	1x	185	None, sample is ND
460-304032-1	8260D	6	Dibromofluoromethane	1x	29	J-/UJ target compounds
460-285468-1	8260D	1	Dibromofluoromethane	1x	27	J-/UJ target compounds
460-285468-1	8260D	3	Dibromofluoromethane	1x	22	J-/UJ target compounds

Notes:

%R = Percent recovery

ND = Non-detect

SDG = Sample delivery group

TABLE 4B
SURROGATE TARGET COMPOUNDS
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Method	Target Compound	Surrogate
8082	PCB-1016	Decachlorobiphenyl
8082	PCB-1221	Decachlorobiphenyl
8082	PCB-1232	Decachlorobiphenyl
8082	PCB-1242	Decachlorobiphenyl
8082	PCB-1248	Decachlorobiphenyl
8082	PCB-1254	Decachlorobiphenyl
8082	PCB-1260	Decachlorobiphenyl
8082	PCB-1262	Decachlorobiphenyl
8082	PCB-1268	Decachlorobiphenyl
8260	1,1,1-Trichloroethane	Dibromofluoromethane
8260	1,1,2-Trichloro-1,2,2-trifluoroethane	Dibromofluoromethane
8260	1,1-Dichloroethane	Dibromofluoromethane
8260	1,1-Dichloroethene	Dibromofluoromethane
8260	2,2-Dichloropropane	Dibromofluoromethane
8260	2-Butanone (MEK)	Dibromofluoromethane
8260	2-Chloro-1,3-butadiene	Dibromofluoromethane
8260	2-Methyl-2-propanol	Dibromofluoromethane
8260	3-Chloro-1-propene	Dibromofluoromethane
8260	Acetone	Dibromofluoromethane
8260	Acrolein	Dibromofluoromethane
8260	Acrylonitrile	Dibromofluoromethane
8260	Bromochloromethane	Dibromofluoromethane
8260	Bromomethane	Dibromofluoromethane
8260	Bromomethane	Dibromofluoromethane
8260	Butadiene	Dibromofluoromethane
8260	Carbon disulfide	Dibromofluoromethane
8260	Carbon Disulfide	Dibromofluoromethane
8260	Chloroethane	Dibromofluoromethane
8260	Chloroethane	Dibromofluoromethane
8260	Chloroform	Dibromofluoromethane
8260	Chloroform	Dibromofluoromethane
8260	Chloromethane	Dibromofluoromethane
8260	Chloromethane	Dibromofluoromethane
8260	Chlorotrifluoroethene	Dibromofluoromethane
8260	Cis-1,2-DCE	Dibromofluoromethane
8260	cis-1,2-Dichloroethene	Dibromofluoromethane
8260	Cyclohexane	Dibromofluoromethane
8260	Cyclohexane	Dibromofluoromethane
8260	Dichlorodifluoromethane	Dibromofluoromethane
8260	Dichlorodifluoromethane	Dibromofluoromethane
8260	ETBE	Dibromofluoromethane
8260	Ethanol	Dibromofluoromethane
8260	Ethyl Acetate	Dibromofluoromethane
8260	Ethyl bromide	Dibromofluoromethane
8260	Ethyl Ether	Dibromofluoromethane
8260	Ethylene Oxide	Dibromofluoromethane
8260	Hexane	Dibromofluoromethane
8260	Hexane	Dibromofluoromethane
8260	Iodomethane	Dibromofluoromethane

TABLE 4B
SURROGATE TARGET COMPOUNDS
90-02 QUEENS BOULEVARD
BRONX, NEW YORK

Method	Target Compound	Surrogate
8260	Iodomethane	Dibromofluoromethane
8260	Isobutyle Alcohol	Dibromofluoromethane
8260	Isopropyl alcohol	Dibromofluoromethane
8260	Isopropyl Alcohol	Dibromofluoromethane
8260	Isopropyl ether	Dibromofluoromethane
8260	Isopropyl Ether	Dibromofluoromethane
8260	MEK	Dibromofluoromethane
8260	Methacrylonitrile	Dibromofluoromethane
8260	Methacrylonitrile	Dibromofluoromethane
8260	Methyl Aceate	Dibromofluoromethane
8260	Methyl tert-butyl ether	Dibromofluoromethane
8260	Methylene Chloride	Dibromofluoromethane
8260	Methylene Chloride	Dibromofluoromethane
8260	MTBE	Dibromofluoromethane
8260	n-Butanol	Dibromofluoromethane
8260	Propene Oxide	Dibromofluoromethane
8260	Propionitrile	Dibromofluoromethane
8260	Propionitrile	Dibromofluoromethane
8260	sec-Butyl Alcohol	Dibromofluoromethane
8260	TAME	Dibromofluoromethane
8260	Tert-butyl ethyl ether	Dibromofluoromethane
8260	Tetrahydrofuran	Dibromofluoromethane
8260	trans-1,2-Dichloroethene	Dibromofluoromethane
8260	Trichlorofluoromethane	Dibromofluoromethane
8260	Vinyl acetate	Dibromofluoromethane
8260	Vinyl chloride	Dibromofluoromethane
8270	1,1'-Biphenyl	2-Fluorobiphenyl
8270	1,2,4,5-Tetrachlorobenzene	2-Fluorobiphenyl
8270	1,3,5-Trinitrobenzene	2-Fluorobiphenyl
8270	1,3-Dinitrobenzene	2-Fluorobiphenyl
8270	1,4-Dinitrobenzene	2-Fluorobiphenyl
8270	1,4-Naphthoquinone	2-Fluorobiphenyl
8270	1-Chloronaphthalene	2-Fluorobiphenyl
8270	1-Methylnaphthalene	2-Fluorobiphenyl
8270	1-Methylnaphthalene	2-Fluorobiphenyl
8270	1-Methylnaphthalene	2-Fluorobiphenyl
8270	1-Naphthylamine	2-Fluorobiphenyl
8270	2,4-Dinitrotoluene	2-Fluorobiphenyl
8270	2,6-Dinitrotoluene	2-Fluorobiphenyl
8270	2-Acetylaminofluorene	2-Fluorobiphenyl
8270	2-Chloronaphthalene	2-Fluorobiphenyl
8270	2-Methylnaphthalene	2-Fluorobiphenyl
8270	2-Methylnaphthalene	2-Fluorobiphenyl
8270	2-Methylnaphthalene	2-Fluorobiphenyl
8270	2-Naphthylamine	2-Fluorobiphenyl
8270	2-Nitroaniline	2-Fluorobiphenyl
8270	3,3'-Dichlorobenzidine	2-Fluorobiphenyl
8270	3,3'-Dimethylbenzidine	2-Fluorobiphenyl
8270	3-Methylcholanthrene	2-Fluorobiphenyl

TABLE 4B
SURROGATE TARGET COMPOUNDS
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Method	Target Compound	Surrogate
8270	3-Nitroaniline	2-Fluorobiphenyl
8270	4-Aminobiphenyl	2-Fluorobiphenyl
8270	4-Bromophenyl phenyl ether	2-Fluorobiphenyl
8270	4-Chlorophenyl phenyl ether	2-Fluorobiphenyl
8270	4-Nitroaniline	2-Fluorobiphenyl
8270	4-Nitroquinoline-1-oxide	2-Fluorobiphenyl
8270	7,12-Dimethylbenz(a)anthracene	2-Fluorobiphenyl
8270	Acenaphthene	2-Fluorobiphenyl
8270	Acenaphthene	2-Fluorobiphenyl
8270	Acenaphthene	2-Fluorobiphenyl
8270	Acenaphthylene	2-Fluorobiphenyl
8270	Acenaphthylene	2-Fluorobiphenyl
8270	Acenaphthylene	2-Fluorobiphenyl
8270	Anthracene	2-Fluorobiphenyl
8270	Aramite, Total	2-Fluorobiphenyl
8270	Azobenzene	2-Fluorobiphenyl
8270	Benzidine	2-Fluorobiphenyl
8270	Benzo[a]anthracene	2-Fluorobiphenyl
8270	Benzo[a]pyrene	2-Fluorobiphenyl
8270	Benzo[b]fluoranthene	2-Fluorobiphenyl
8270	Benzo[g,h,i]perylene	2-Fluorobiphenyl
8270	Benzo[k]fluoranthene	2-Fluorobiphenyl
8270	Bis(2-ethylhexyl) phthalate	2-Fluorobiphenyl
8270	Butyl benzyl phthalate	2-Fluorobiphenyl
8270	Carbazole	2-Fluorobiphenyl
8270	Chlorobenzilate	2-Fluorobiphenyl
8270	Chrysene	2-Fluorobiphenyl
8270	Diallate	2-Fluorobiphenyl
8270	Dibenz(a,h)anthracene	2-Fluorobiphenyl
8270	Dibenz[a,j]acridine	2-Fluorobiphenyl
8270	Dibenzofuran	2-Fluorobiphenyl
8270	Diethyl phthalate	2-Fluorobiphenyl
8270	Dimethoate	2-Fluorobiphenyl
8270	Dimethyl phthalate	2-Fluorobiphenyl
8270	Di-n-butyl phthalate	2-Fluorobiphenyl
8270	Di-n-octyl phthalate	2-Fluorobiphenyl
8270	Diphenylamine	2-Fluorobiphenyl
8270	Ethyl Parathion	2-Fluorobiphenyl
8270	Famphur	2-Fluorobiphenyl
8270	Fluoranthene	2-Fluorobiphenyl
8270	Fluorene	2-Fluorobiphenyl
8270	Fluorene	2-Fluorobiphenyl
8270	Fluorene	2-Fluorobiphenyl
8270	Hexachlorobenzene	2-Fluorobiphenyl
8270	Hexachlorocyclopentadiene	2-Fluorobiphenyl
8270	Indeno[1,2,3-cd]pyrene	2-Fluorobiphenyl
8270	Isodrin	2-Fluorobiphenyl
8270	Isosafrole	2-Fluorobiphenyl
8270	Kepone	2-Fluorobiphenyl

TABLE 4B
SURROGATE TARGET COMPOUNDS
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Method	Target Compound	Surrogate
8270	Methapyrilene	2-Fluorobiphenyl
8270	Methyl parathion	2-Fluorobiphenyl
8270	Naphthalene	2-Fluorobiphenyl
8270	Naphthalene	2-Fluorobiphenyl
8270	N-Nitro-o-toluidine	2-Fluorobiphenyl
8270	N-Nitrosodi-n-butylamine	2-Fluorobiphenyl
8270	N-Nitrosodiphenylamine	2-Fluorobiphenyl
8270	p-Dimethylamino azobenzene	2-Fluorobiphenyl
8270	Pentachlorobenzene	2-Fluorobiphenyl
8270	Phenacetin	2-Fluorobiphenyl
8270	Phorate	2-Fluorobiphenyl
8270	p-Phenylene diamine	2-Fluorobiphenyl
8270	Pyrene	2-Fluorobiphenyl
8270	Safrole, Total	2-Fluorobiphenyl
8270	Sulfotepp	2-Fluorobiphenyl
8270	Thionazin	2-Fluorobiphenyl
8270	2,4-Dichlorophenol	Phenol-d5
8270	2,4-Dimethylphenol	Phenol-d5
8270	2,6-Dichlorophenol	Phenol-d5
8270	2-Chlorophenol	Phenol-d5
8270	2-Methylphenol	Phenol-d5
8270	2-Nitrophenol	Phenol-d5
8270	3 & 4 Methylphenol	Phenol-d5
8270	4-Chloro-3-methylphenol	Phenol-d5
8270	Benzoic acid	Phenol-d5
8270	Phenol	Phenol-d5
8081-8082	2,4'-DDD	Tetrachloro-m-xylene
8081-8082	2,4'-DDE	Tetrachloro-m-xylene
8081-8082	2,4'-DDT	Tetrachloro-m-xylene
8081-8082	4,4'-DDE	Tetrachloro-m-xylene
8081-8082	4,4'-DDT	Tetrachloro-m-xylene
8081-8082	Chlordane (technical)	Tetrachloro-m-xylene
8081-8082	Chlorobenzilate	Tetrachloro-m-xylene
8081-8082	Diallate	Tetrachloro-m-xylene
8081-8082	Dieldrin	Tetrachloro-m-xylene
8081-8082	Endosulfan I	Tetrachloro-m-xylene
8081-8082	Endosulfan II	Tetrachloro-m-xylene
8081-8082	Endosulfan sulfate	Tetrachloro-m-xylene
8081-8082	Endrin	Tetrachloro-m-xylene
8081-8082	Endrin aldehyde	Tetrachloro-m-xylene
8081-8082	Endrin ketone	Tetrachloro-m-xylene
8081-8082	Heptachlor	Tetrachloro-m-xylene
8081-8082	Heptachlor epoxide	Tetrachloro-m-xylene
8081-8082	Isodrin	Tetrachloro-m-xylene
8081-8082	Methoxychlor	Tetrachloro-m-xylene
8081-8082	Mirex	Tetrachloro-m-xylene
8081-8082	Toxaphene	Tetrachloro-m-xylene

TABLE 5
ISOTOPE DILUTION/EXTRACTION INTERNAL STANDARDS
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

SDG	Lab ID	Isotope Dilution	Dilution	%R	Qualification	Qualification
460-304523-1	2	M2-4:2 FTS	1x	247	J-/None	None, sample is ND
460-304523-1	3	M2-4:2 FTS	1x	207	J-/None	None, sample is ND
460-304523-1	7	M2-8:2 FTS	1x	237	J-/None	None, sample is ND
460-304647-1	1	M2-4:2 FTS	1x	270	J-/None	None, sample is ND
460-304647-1	1	M2-6:2 FTS	1x	204	J-/None	None, sample is ND

Notes:

%R = Percent recovery

ND = Non-detect

SDG = Sample delivery group

TABLE 6

LABORATORY CONTROL SAMPLES

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Sample Type	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
LCS	977023	Methyl acetate	125	J/None	None, samples are ND
LCS	977220	Methyl acetate	123	J/None	None, samples are ND
LCSD	977220	Methyl acetate	122	J/None	None, samples are ND
LCS	613897	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	152	J+/None	None, samples are ND
LCS	614955	Perfluorooctanesulfonamide (PFOSA)	168	J+/None	None, samples are ND
LCSD	614955	Perfluorooctanesulfonamide (PFOSA)	168	J+/None	None, samples are ND
LCSD	975564	2,4-Dinitrophenol	127	J+/None	None, samples are ND
LCS	925142	Carbon disulfide	62	J/UJ	All samples in the batch
LCSD	925142	Carbon disulfide	67	J/UJ	All samples in the batch
LCS	925142	Chloromethane	38	J/UJ	All samples in the batch
LCSD	925142	Chloromethane	41	J/UJ	All samples in the batch
LCS	925142	cis-1,2-Dichloroethene	76	J/UJ	All samples in the batch
LCS	925142	Methylene Chloride	73	J/UJ	All samples in the batch
LCS	925142	Toluene	76	J/UJ	All samples in the batch
LCS	925142	Vinyl chloride	43	J/UJ	All samples in the batch
LCSD	925142	Vinyl chloride	47	J/UJ	All samples in the batch

Notes:*LCS = Laboratory control sample**LCSD = Laboratory control sample duplicate**ND = Non-detect**%R/RPD = Percent recovery/relative percent difference*

TABLE 7A

MATRIX SPIKE SAMPLES

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
HA-SB-07_2-3MS	HA-SB-07_2-3	SW8270E
HA-SB-07_2-3MS	HA-SB-07_2-3	E1633
HA-SB-07_2-3SD	HA-SB-07_2-3	E1633
HA-SB-07_2-3SD	HA-SB-07_2-3	SW6020B
HA-SB-07_2-3SD	HA-SB-07_2-3	SW7471B
HA-SB-07_2-3SD	HA-SB-07_2-3	SW8081B
HA-SB-07_2-3SD	HA-SB-07_2-3	SW8082A
HA-SB-07_2-3SD	HA-SB-07_2-3	SW8260D
MW-2_20240523SD	MW-2_20240523	E1633
MW-2_20240523MS	MW-2_20240523	SW6020B
MW-2_20240523MS	MW-2_20240523	SW7470A
MW-2_20240523MS	MW-2_20240523	SW8081B
MW-2_20240523MS	MW-2_20240523	SW8082A
MW-2_20240523MS	MW-2_20240523	SW8260D
MW-2_20240523MS	MW-2_20240523	SW8270E
MW-2_20240523SD	MW-2_20240523	SW8270E
MW-2_20240523SD	MW-2_20240523	SW8270ESIM
HA-SB-07_2-3MS	HA-SB-07_2-3	SW6020B
HA-SB-07_2-3MS	HA-SB-07_2-3	SW7471B
HA-SB-07_2-3MS	HA-SB-07_2-3	SW8081B
HA-SB-07_2-3MS	HA-SB-07_2-3	SW8082A
HA-SB-07_2-3MS	HA-SB-07_2-3	SW8260D
HA-SB-07_2-3SD	HA-SB-07_2-3	SW8270E
MW-2_20240523MS	MW-2_20240523	E1633
MW-2_20240523MS	MW-2_20240523	SW8270ESIM
MW-2_20240523SD	MW-2_20240523	SW6020B
MW-2_20240523SD	MW-2_20240523	SW7470A
MW-2_20240523SD	MW-2_20240523	SW8081B
MW-2_20240523SD	MW-2_20240523	SW8082A
MW-2_20240523SD	MW-2_20240523	SW8260D
MW-10_20240524MS	MW-10_20240524	SW6020B
MW-2_20240528MS	MW-2_20240528	SW6020B
MW-2_20240528MS	MW-2_20240528	SW7470A
MW-2_20240528SD	MW-2_20240528	SW6020B
MW-2_20240528SD	MW-2_20240528	SW7470A

TABLE 7B

MATRIX SPIKE EXCEEDANCES

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS	8270E	MW-2_20240523	2,2'-oxybis[1-chloropropane]	152	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	2,2'-oxybis[1-chloropropane]	159	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	2,4-Dichlorophenol	126	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	2,4-Dinitrophenol	135	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	2-Chlorophenol	123	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	2-Methylnaphthalene	123	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	2-Methylnaphthalene	128	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	2-Nitrophenol	133	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	3,3'-Dichlorobenzidine	48	J/UJ	MW-2_20240523
MSD	8270E	MW-2_20240523	3,3'-Dichlorobenzidine	19	J/UJ	MW-2_20240523
MS	8270E	MW-2_20240523	4-Chloro-3-methylphenol	121	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	4-Chloro-3-methylphenol	131	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	4-Chloroaniline	34	J/UJ	MW-2_20240523
MSD	8270E	MW-2_20240523	Acenaphthene	134	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Acenaphthylene	125	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Acenaphthylene	129	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Acetophenone	131	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Acetophenone	137	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Anthracene	129	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Anthracene	133	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Atrazine	189	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Atrazine	161	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Benzaldehyde	210	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Benzaldehyde	182	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Benzo[a]anthracene	136	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Benzo[a]pyrene	145	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Benzo[b]fluoranthene	153	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Benzo[g,h,i]perylene	137	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Benzo[k]fluoranthene	136	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Benzo[k]fluoranthene	137	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Bis(2-chloroethoxy)methane	133	J/None	MW-2_20240523

TABLE 7B

MATRIX SPIKE EXCEEDANCES

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MSD	8270E	MW-2_20240523	Bis(2-chloroethoxy)methane	138	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Bis(2-chloroethyl)ether	139	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Bis(2-chloroethyl)ether	141	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Bis(2-ethylhexyl) phthalate	153	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Butyl benzyl phthalate	149	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Butyl benzyl phthalate	157	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Carbazole	133	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Carbazole	138	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Chrysene	133	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Di-n-butyl phthalate	140	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Di-n-butyl phthalate	147	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Fluoranthene	131	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Fluoranthene	136	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Hexachloroethane	131	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Hexachloroethane	134	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Indeno[1,2,3-cd]pyrene	154	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Isophorone	139	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Isophorone	146	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Naphthalene	128	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Naphthalene	130	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Nitrobenzene	145	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Nitrobenzene	150	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	N-Nitrosodi-n-propylamine	154	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	N-Nitrosodi-n-propylamine	159	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	N-Nitrosodiphenylamine	129	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	N-Nitrosodiphenylamine	135	J/None	MW-2_20240523
MS	8270E	MW-2_20240523	Phenanthrene	128	J/None	MW-2_20240523
MSD	8270E	MW-2_20240523	Phenanthrene	131	J/None	MW-2_20240523
MS/MSD	6020B	MW-2_20240528	Silver (Dissolved)	RPD=22	J/None	None, samples are ND
MSD	1633	HA-SB-07_2-3	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	RPD=32	J/None	None, sample is ND

TABLE 7B

MATRIX SPIKE EXCEEDANCES

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
MS/MSD	8260B	HA-SB-07_2-3	MS/MSD recoveries were outside the specified limits for multiple 8260D compounds. Qualify all VOCs J/UJ except for the following compounds: 1,1,2-Trichloro-1,2,2-trifluoroethane Bromoform Bromomethane Carbon disulfide Carbon tetrachloride Chlorodibromomethane Chloroethane Chloromethane Dichlorodifluoromethane Methyl acetate Methylcyclohexane Vinyl chloride			HA-SB-07_2-3
MSD	6020B	HA-SB-07_2-3	Cobalt	71	J-/UJ	All samples of the matrix in the SDG
MS	6020B	HA-SB-07_2-3	Potassium	63	J-/UJ	All samples of the matrix in the SDG
MSD	6020B	HA-SB-07_2-3	Potassium	50	J-/UJ	All samples of the matrix in the SDG
MS	6020B	HA-SB-07_2-3	Silver	57	J-/UJ	All samples of the matrix in the SDG
MSD	6020B	HA-SB-07_2-3	Silver	56	J-/UJ	All samples of the matrix in the SDG
MS	6020B	HA-SB-07_2-3	Vanadium	60	J-/UJ	All samples of the matrix in the SDG
MSD	6020B	HA-SB-07_2-3	Vanadium	56	J-/UJ	All samples of the matrix in the SDG

Notes:*MS = Matrix spike**MSD = Matrix spike duplicate**SDG = Sample delivery group**%R/RPD = Percent recovery/relative percent difference*

TABLE 8A
METHOD BLANK EXCEEDANCES
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Blank Type	Batch ID	Analyte Detected in Blank	Concentration (ug/kg)	Qualifier	Affected Samples
Method Blank	613897	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.521 J	RL U	HA-SB-07_0-2
Method Blank	613897	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.310 J	RL U	HA-SB-06_0-2
Method Blank	613897	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	0.310 J	RL U	HA-SB-06_2-3

Notes:

RL U = Qualify non-detect at the laboratory reporting limit

TABLE 8B
TRIP BLANK EXCEEDANCES
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Blank Type	Date of Blank	Blank Sample ID	Analyte Detected in Blank	Concentration (mg/kg)	Qualifier	Affected Samples
Trip Blank	5/15/2024	TB-01_20240515	Methylene chloride (Dichloromethane)	0.0035	RL U	HA-SB-05 0-2
					RL U	DUP-01 20240515
					RL U	HA-SB-04 2-3
					RL U	HA-SB-08 0-2
					RL U	HA-SB-08 2-3
					RL U	HA-SB-07 2-3
					Result U	HA-SB-04 0-2
					Result U	HA-SB-05 2-3
					Result U	HA-SB-07 0-2
					Result U	HA-SB-06 0-2
					Result U	HA-SB-06 2-3

Notes:

RL U = Qualify non-detect at the laboratory reporting limit
Result U = Qualify non-detect at the reported sample result
mg/kg = Milligrams per kilogram

TABLE 9A**LABORATORY DUPLICATE PAIRS**

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Lab Sample Number	Lab Duplicate Sample Client ID	Method(s)
DUP-01_20240523LR	DUP-01_20240523	E1633
MW-2_20240523LR	MW-2_20240523	SW6020B
MW-2_20240523LR	MW-2_20240523	SW7470A
HA-SB-07_2-3LR	HA-SB-07_2-3	SW6020B
HA-SB-07_2-3LR	HA-SB-07_2-3	SW7471B
MW-10_20240524LR	MW-10_20240524	SW6020B
MW-17_20240524LR	MW-17_20240524	E1633
MW-2_20240528LR	MW-2_20240528	SW6020B
MW-2_20240528LR	MW-2_20240528	SW7470A

TABLE 9B

LABORATORY DUPLICATE EXCEEDANCES

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Laboratory Duplicate Sample ID	Client Sample ID	Analyte	% RPD	Qualification
460-304032-8 DU	HA-SB-07_2-3	Manganese	27	J/UJ all samples of the matrix in the SDG
460-304032-8 DU	HA-SB-07_2-3	Silver	22	J/UJ all samples of the matrix in the SDG
460-304541-3 DU	MW-2_20240523	Selenium	47	J/UJ all samples of the matrix in the SDG
460-304646-2 DU	MW-10_20240524	Copper	58	J/UJ all samples of the matrix in the SDG
460-304646-2 DU	MW-10_20240524	Iron	23	J/UJ all samples of the matrix in the SDG
460-304646-2 DU	MW-10_20240524	Zinc	45	J/UJ all samples of the matrix in the SDG

Notes:*SDG = Sample delivery group**% RPD = Relative percent difference*

TABLE 9C**FIELD DUPLICATE PAIRS**

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

Primary Sample ID	Duplicate Sample ID	Method(s)
HA-SB-08_0-2	DUP-01_20240515	E1633, EPA 6020B, EPA 7471B, EPA 8081B, EPA 8082A, EPA 8260D, EPA 8270E
MW-2_20240523	DUP-01_20240523	E1633, EPA 6020B, EPA 7470A, EPA 8081B, EPA 8082A, EPA 8260D, EPA 8270E, EPA 8270ESIM
MW-2_20240528	DUP-01_20240528	EPA 6020B, EPA 7470A

TABLE 9D
FIELD DUPLICATE EXCEEDANCES
 90-02 QUEENS BOULEVARD
 BRONX, NEW YORK

Analyte	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	HA-SB-08_0-2	DUP-01_20240515		
2-Butanone (Methyl Ethyl Ketone)	0.0093	ND	NA	J/UJ, Abs. Diff. > RL
Acenaphthylene	0.6	0.057	NA	J/UJ, Abs. Diff. > RL
Acetone	0.044	0.022	NA	J/UJ, Abs. Diff. > RL
Anthracene	0.45	0.035	NA	J/UJ, Abs. Diff. > RL
Benzo(a)anthracene	2.4	0.19	171	J/UJ, RPD>50
Benzo(a)pyrene	2.4	0.24	164	J/UJ, RPD>50
Benzo(b)fluoranthene	2.9	0.27	166	J/UJ, RPD>50
Benzo(g,h,i)perylene	0.99	0.14	NA	J/UJ, Abs. Diff. > RL
Benzo(k)fluoranthene	1.2	0.1	NA	J/UJ, Abs. Diff. > RL
Carbon disulfide	0.0027	ND	NA	J/UJ, Abs. Diff. > RL
Chrysene	2	0.2	NA	J/UJ, Abs. Diff. > RL
Copper	26.7	71.7	91	J/UJ, RPD>50
Dibenz(a,h)anthracene	0.33	0.03	NA	J/UJ, Abs. Diff. > RL
Fluoranthene	3	0.31	NA	J/UJ, Abs. Diff. > RL
Indeno(1,2,3-cd)pyrene	1.4	0.18	154	J/UJ, RPD>50
Lead	81.8	471	141	J/UJ, RPD>50
Mercury	0.1	0.071	NA	J/UJ, Abs. Diff. > RL
Phenanthrene	0.57	0.15	NA	J/UJ, Abs. Diff. > RL
Potassium	2580	1520	52	J/UJ, RPD>50
Pyrene	2.8	0.31	NA	J/UJ, Abs. Diff. > RL
Analyte	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
	MW-2_20240528	DUP-01_20240528		
Copper	18.8	23.3	NA	J/UJ, Abs. Diff. > RL

Notes:
 % RPD = Relative percent difference
 > = Greater than
 ND = Non-detect
 Abs. Diff. = Absolute difference
 RL = Reporting limit

TABLE 10
EMPC QUALIFIERS

90-02 QUEENS BOULEVARD
BRONX, NEW YORK

Client Sample ID	Analyte	Concentration (ng/L)	Qualifier
MW-8_20240524	Perfluorooctanesulfonic acid (PFOS)	30	UJ
DUP-01_20240523	Perfluorohexanesulfonic acid (PFHxS)	5.3	UJ

Notes:

ng/L = Nanograms per liter

TABLE 11
PFAS SAMPLE PREPARATION
90-02 QUEENS BOULEVARD
BRONX, NEW YORK

SDG	Description	Qualifier	Affected Lab Sample IDs
460-304523-1	Dilution was required to avoid clogging, and an aliquot was taken for analysis.	J/UJ	1, 2, 3, 4, 5
460-304647-1	Dilution was required to avoid clogging, and an aliquot was taken for analysis.	J/UJ	1, 3, 4, 5

TABLE 12**PFAS IDENTIFICATION**

90-02 QUEENS BOULEVARD

BRONX, NEW YORK

SDG	Sample ID	Analyte	Qualifier
460-304647-1	MW-8_20240524	PFOS	UJ
460-304647-1	MW-16_20240524	PFHxS	UJ
460-304647-1	MW-15_20240524	PFBS	UJ
460-304523-1	MW-12_20240523	PFOSA	UJ
460-304523-1	MW-2_20240523	6:2 FTS	UJ
460-304523-1	MW-2_20240523	PFBS	UJ
460-304523-1	DUP-01_20240523	PFBS	UJ
460-304523-1	MW-11_20240523	PFPeS	UJ

TABLE 13
SYSTEM PERFORMANCE SUMMARY
90-02 QUEENS BOULEVARD
BRONY, NEW YORK

SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603040321	SW6020B	DUP-01_20240515	460-304032-12	Manganese	N	Yes	212	212 J	DUP
4603045411	SW6020B	DUP-01_20240523	460-304541-4	Selenium	T	Yes	U	UJ	DUP
4603040321	SW6020B	FB-01_20240515	460-304032-11	Manganese	T	Yes	U	UJ	DUP
4603040321	SW6020B	FB-01_20240515	460-304032-11	Silver	T	Yes	U	UJ	DUP
4603045411	SW6020B	FB-01_20240523	460-304541-6	Selenium	T	Yes	U	UJ	DUP
4603040321	SW6020B	HA-SB-04_0-2	460-304032-3	Manganese	N	Yes	534	534 J	DUP
4603040321	SW6020B	HA-SB-04_0-2	460-304032-3	Silver	N	Yes	0.52 J	0.52 J	DUP
4603040321	SW6020B	HA-SB-04_2-3	460-304032-4	Manganese	N	Yes	92	92 J	DUP
4603040321	SW6020B	HA-SB-05_0-2	460-304032-1	Manganese	N	Yes	146	146 J	DUP
4603040321	SW6020B	HA-SB-05_2-3	460-304032-2	Manganese	N	Yes	148	148 J	DUP
4603040321	SW6020B	HA-SB-06_0-2	460-304032-9	Manganese	N	Yes	302	302 J	DUP
4603040321	SW6020B	HA-SB-06_2-3	460-304032-10	Manganese	N	Yes	252	252 J	DUP
4603040321	SW6020B	HA-SB-07_0-2	460-304032-7	Manganese	N	Yes	355	355 J	DUP
4603040321	SW6020B	HA-SB-07_2-3	460-304032-8	Manganese	N	Yes	346	346 J	DUP
4603040321	SW6020B	HA-SB-08_0-2	460-304032-5	Manganese	N	Yes	239	239 J	DUP
4603040321	SW6020B	HA-SB-08_2-3	460-304032-6	Manganese	N	Yes	150	150 J	DUP
4603046461	SW6020B	MW-10_20240524	460-304646-2	Copper	T	Yes	3.8 J	3.8 J	DUP
4603046461	SW6020B	MW-10_20240524	460-304646-2	Iron	T	Yes	421	421 J	DUP
4603046461	SW6020B	MW-10_20240524	460-304646-2	Zinc	T	Yes	7 J	7 J	DUP
4603045411	SW6020B	MW-11_20240523	460-304541-5	Selenium	T	Yes	U	UJ	DUP
4603045411	SW6020B	MW-12_20240523	460-304541-1	Selenium	T	Yes	U	UJ	DUP
4603046461	SW6020B	MW-15_20240524	460-304646-5	Copper	T	Yes	8.4	8.4 J	DUP
4603046461	SW6020B	MW-15_20240524	460-304646-5	Iron	T	Yes	6400	6400 J	DUP
4603046461	SW6020B	MW-15_20240524	460-304646-5	Zinc	T	Yes	22.5	22.5 J	DUP
4603046461	SW6020B	MW-16_20240524	460-304646-4	Copper	T	Yes	50.5	50.5 J	DUP
4603046461	SW6020B	MW-16_20240524	460-304646-4	Iron	T	Yes	10200	10200 J	DUP
4603046461	SW6020B	MW-16_20240524	460-304646-4	Zinc	T	Yes	46.2	46.2 J	DUP
4603046461	SW6020B	MW-17_20240524	460-304646-1	Copper	T	Yes	415	415 J	DUP
4603046461	SW6020B	MW-17_20240524	460-304646-1	Iron	T	Yes	8600	8600 J	DUP
4603046461	SW6020B	MW-17_20240524	460-304646-1	Zinc	T	Yes	102	102 J	DUP
4603045411	SW6020B	MW-1_20240523	460-304541-2	Selenium	T	Yes	U	UJ	DUP
4603045411	SW6020B	MW-2_20240523	460-304541-3	Selenium	T	Yes	0.46 J	0.46 J	DUP
4603040321	SW6020B	DUP-01_20240515	460-304032-12	Silver	N	Yes	0.081 J	0.081 J	DUP, MSD
4603040321	SW6020B	HA-SB-04_2-3	460-304032-4	Silver	N	Yes	U	UJ	DUP, MSD
4603040321	SW6020B	HA-SB-05_0-2	460-304032-1	Silver	N	Yes	U	UJ	DUP, MSD
4603040321	SW6020B	HA-SB-05_2-3	460-304032-2	Silver	N	Yes	U	UJ	DUP, MSD
4603040321	SW6020B	HA-SB-06_0-2	460-304032-9	Silver	N	Yes	0.078 J	0.078 J	DUP, MSD
4603040321	SW6020B	HA-SB-06_2-3	460-304032-10	Silver	N	Yes	U	UJ	DUP, MSD
4603040321	SW6020B	HA-SB-07_0-2	460-304032-7	Silver	N	Yes	0.33	0.33 J	DUP, MSD
4603040321	SW6020B	HA-SB-07_2-3	460-304032-8	Silver	N	Yes	0.24 J	0.24 J	DUP, MSD
4603040321	SW6020B	HA-SB-08_0-2	460-304032-5	Silver	N	Yes	U	UJ	DUP, MSD
4603040321	SW6020B	HA-SB-08_2-3	460-304032-6	Silver	N	Yes	U	UJ	DUP, MSD
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	5.3	5.3 UJ	EMC, SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorooctanesulfonic acid (PFOS)	N	Yes	30	30.0 UJ	EMC, SVR, ION

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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603040321	SW6020B	DUP-01_20240515	460-304032-12	Copper	N	Yes	71.7	71.7 J	FDP
4603040321	SW6020B	DUP-01_20240515	460-304032-12	Lead	N	Yes	471	471 J	FDP
4603040321	SW7471B	DUP-01_20240515	460-304032-12	Mercury	N	Yes	0.071	0.071 J	FDP
4603040321	SW8260D	DUP-01_20240515	460-304032-12	2-Butanone (Methyl Ethyl Ketone)	N	Yes	U	UJ	FDP
4603040321	SW8260D	DUP-01_20240515	460-304032-12	Acetone	N	Yes	0.022	0.022 J	FDP
4603040321	SW8260D	DUP-01_20240515	460-304032-12	Carbon disulfide	N	Yes	U	UJ	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Acenaphthylene	N	Yes	0.057 J	0.057 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Anthracene	N	Yes	0.035 J	0.035 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Benzo(a)anthracene	N	Yes	0.19	0.19 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Benzo(a)pyrene	N	Yes	0.24	0.24 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Benzo(b)fluoranthene	N	Yes	0.27	0.27 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Benzo(g,h,i)perylene	N	Yes	0.14 J	0.14 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Benzo(k)fluoranthene	N	Yes	0.1	0.1 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Chrysene	N	Yes	0.2 J	0.2 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Dibenz(a,h)anthracene	N	Yes	0.03 J	0.03 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Fluoranthene	N	Yes	0.31 J	0.31 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Indeno(1,2,3-cd)pyrene	N	Yes	0.18	0.18 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Phenanthrene	N	Yes	0.15 J	0.15 J	FDP
4603040321	SW8270E	DUP-01_20240515	460-304032-12	Pyrene	N	Yes	0.31 J	0.31 J	FDP
4603047881	SW6020B	DUP-01_20240528	460-304788-3	Copper	D	Yes	23.3	23.3 J	FDP
4603040321	SW6020B	HA-SB-08_0-2	460-304032-5	Copper	N	Yes	26.7	26.7 J	FDP
4603040321	SW6020B	HA-SB-08_0-2	460-304032-5	Lead	N	Yes	81.8	81.8 J	FDP
4603040321	SW7471B	HA-SB-08_0-2	460-304032-5	Mercury	N	Yes	0.1	0.1 J	FDP
4603040321	SW8260D	HA-SB-08_0-2	460-304032-5	2-Butanone (Methyl Ethyl Ketone)	N	Yes	0.0093	0.0093 J	FDP
4603040321	SW8260D	HA-SB-08_0-2	460-304032-5	Acetone	N	Yes	0.044	0.044 J	FDP
4603040321	SW8260D	HA-SB-08_0-2	460-304032-5	Carbon disulfide	N	Yes	0.0027	0.0027 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Acenaphthylene	N	Yes	0.6	0.6 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Anthracene	N	Yes	0.45	0.45 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Benzo(a)anthracene	N	Yes	2.4	2.4 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Benzo(a)pyrene	N	Yes	2.4	2.4 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Benzo(b)fluoranthene	N	Yes	2.9	2.9 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Benzo(g,h,i)perylene	N	Yes	0.99	0.99 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Benzo(k)fluoranthene	N	Yes	1.2	1.2 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Chrysene	N	Yes	2	2 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Dibenz(a,h)anthracene	N	Yes	0.33	0.33 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Fluoranthene	N	Yes	3	3 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Indeno(1,2,3-cd)pyrene	N	Yes	1.4	1.4 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Phenanthrene	N	Yes	0.57	0.57 J	FDP
4603040321	SW8270E	HA-SB-08_0-2	460-304032-5	Pyrene	N	Yes	2.8	2.8 J	FDP
4603047881	SW6020B	MW-2_20240528	460-304788-2	Copper	D	Yes	18.8	18.8 J	FDP
4603040321	SW6020B	DUP-01_20240515	460-304032-12	Potassium	N	Yes	1520	1520 J	FDP, MSD
4603040321	SW6020B	HA-SB-08_0-2	460-304032-5	Potassium	N	Yes	2580	2580 J	FDP, MSD
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,1,1-Trichloroethane	N	Yes	0.59 J	0.59 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	LCP

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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,1,2-Trichloroethane	N	Yes	4.6	4.6 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,1-Dichloroethane	N	Yes	0.32 J	0.32 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,1-Dichloroethene	N	Yes	0.12 J	0.12 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,2,4-Trichlorobenzene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,2,4-Trimethylbenzene	N	Yes	5.2	5.2 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,2-Dichlorobenzene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,2-Dichloroethane	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,2-Dichloropropane	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,2-Dichlorotetrafluoroethane (CFC 114)	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,3,5-Trimethylbenzene	N	Yes	1.2	1.2 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,3-Butadiene	N	Yes	0.42 J	0.42 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,3-Dichlorobenzene	N	Yes	1.9	1.9 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,4-Dichlorobenzene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	1,4-Dioxane	N	Yes	12 J	12 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	2,2,4-Trimethylpentane	N	Yes	67	67 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	2-Butanone (Methyl Ethyl Ketone)	N	Yes	53	53 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	2-Chlorotoluene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	2-Hexanone (Methyl Butyl Ketone)	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	N	Yes	1.2	1.2 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	N	Yes	2.5	2.5 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Acetone	N	Yes	470	470 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Allyl chloride	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Benzene	N	Yes	9.5	9.5 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Benzyl Chloride (alpha-Chlorotoluene)	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Bromodichloromethane	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Bromoform	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Butane	N	Yes	14	14 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Carbon disulfide	N	Yes	0.85 J	0.85 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Carbon tetrachloride	N	Yes	0.39	0.39 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Chlorobenzene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Chlorodifluoromethane	N	Yes	0.51 J	0.51 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Chloroethane	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Chloroform (Trichloromethane)	N	Yes	21	21 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Chloromethane (Methyl Chloride)	N	Yes	0.37 J	0.37 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Cyclohexane	N	Yes	25	25 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Cymene (p-isopropyltoluene)	N	Yes	1.2	1.2 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Dibromochloromethane	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Dichlorodifluoromethane (CFC-12)	N	Yes	2.3 J	2.3 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Ethylbenzene	N	Yes	36	36 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Hexachlorobutadiene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Hexane	N	Yes	25	25 J	LCP

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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
200735801	TO15	HA-SS-04-20240516	200-73580-5	Isopropyl Alcohol (2-Propanol)	N	Yes	32	32 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Isopropylbenzene (Cumene)	N	Yes	2.6	2.6 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Methyl Tert Butyl Ether (MTBE)	N	Yes	0.51 J	0.51 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Methyl methacrylate	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Methylene chloride (Dichloromethane)	N	Yes	0.9 J	0.9 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	N-Heptane	N	Yes	18	18 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Naphthalene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Styrene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Tert-Butyl Alcohol (tert-Butanol)	N	Yes	9.2 J	9.2 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Tetrachloroethene	N	Yes	10	10 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Tetrahydrofuran	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Toluene	N	Yes	39	39 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Trichloroethene	N	Yes	2.8	2.8 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Trichlorofluoromethane (CFC-11)	N	Yes	1.1	1.1 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Trifluorotrichloroethane (Freon 113)	N	Yes	0.48 J	0.48 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Vinyl Bromide (Bromoethene)	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	Vinyl chloride	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	cis-1,2-Dichloroethene	N	Yes	0.2	0.2 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	cis-1,3-Dichloropropene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	m,p-Xylenes	N	Yes	140	140 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	n-Butylbenzene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	n-Propylbenzene	N	Yes	0.99	0.99 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	o-Xylene	N	Yes	66	66 J	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	tert-Butylbenzene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	trans-1,2-Dichloroethene	N	Yes	U	UJ	LCP
200735801	TO15	HA-SS-04-20240516	200-73580-5	trans-1,3-Dichloropropene	N	Yes	U	UJ	LCP
4602854681	SW8260D	HA TWP-01-20230803	460-285468-7	Carbon disulfide	N	Yes	U	UJ	LCS
4602854681	SW8260D	HA TWP-01-20230803	460-285468-7	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	LCS
4602854681	SW8260D	HA TWP-01-20230803	460-285468-7	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	LCS
4602854681	SW8260D	HA TWP-01-20230803	460-285468-7	Toluene	N	Yes	U	UJ	LCS
4602854681	SW8260D	HA TWP-01-20230803	460-285468-7	Vinyl chloride	N	Yes	U	UJ	LCS
4602854681	SW8260D	HA TWP-01-20230803	460-285468-7	cis-1,2-Dichloroethene	N	Yes	U	UJ	LCS
4602854681	SW8260D	MW-1-20230803	460-285468-8	Carbon disulfide	N	Yes	U	UJ	LCS
4602854681	SW8260D	MW-1-20230803	460-285468-8	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	LCS
4602854681	SW8260D	MW-1-20230803	460-285468-8	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	LCS
4602854681	SW8260D	MW-1-20230803	460-285468-8	Toluene	N	Yes	U	UJ	LCS
4602854681	SW8260D	MW-1-20230803	460-285468-8	Vinyl chloride	N	Yes	U	UJ	LCS
4602854681	SW8260D	MW-1-20230803	460-285468-8	cis-1,2-Dichloroethene	N	Yes	U	UJ	LCS
4602854681	SW8260D	TB-01_20230803	460-285468-11	Carbon disulfide	N	Yes	U	UJ	LCS
4602854681	SW8260D	TB-01_20230803	460-285468-11	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	LCS
4602854681	SW8260D	TB-01_20230803	460-285468-11	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	LCS
4602854681	SW8260D	TB-01_20230803	460-285468-11	Toluene	N	Yes	U	UJ	LCS
4602854681	SW8260D	TB-01_20230803	460-285468-11	Vinyl chloride	N	Yes	U	UJ	LCS
4602854681	SW8260D	TB-01_20230803	460-285468-11	cis-1,2-Dichloroethene	N	Yes	U	UJ	LCS

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4603040311	E1633	HA-SB-06_0-2	460-304031-9	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	0.2 J	0.79 U	MBK
4603040311	E1633	HA-SB-06_2-3	460-304031-10	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	0.37 J	0.78 U	MBK
4603040311	E1633	HA-SB-07_0-2	460-304031-5	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	0.29 J	0.84 U	MBK
4603040321	SW6020B	DUP-01_20240515	460-304032-12	Cobalt	N	Yes	7	7 J	MSD
4603040321	SW6020B	DUP-01_20240515	460-304032-12	Vanadium	N	Yes	40.2	40.2 J	MSD
4603047881	SW6020B	DUP-01_20240528	460-304788-3	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	FB-01_20240528	460-304788-10	Silver	D	Yes	U	UJ	MSD
4603040321	SW6020B	HA-SB-04_2-3	460-304032-4	Cobalt	N	Yes	4.1	4.1 J	MSD
4603040321	SW6020B	HA-SB-04_2-3	460-304032-4	Potassium	N	Yes	569	569 J	MSD
4603040321	SW6020B	HA-SB-04_2-3	460-304032-4	Vanadium	N	Yes	24.8	24.8 J	MSD
4603040321	SW6020B	HA-SB-05_0-2	460-304032-1	Cobalt	N	Yes	6	6 J	MSD
4603040321	SW6020B	HA-SB-05_0-2	460-304032-1	Potassium	N	Yes	742	742 J	MSD
4603040321	SW6020B	HA-SB-05_0-2	460-304032-1	Vanadium	N	Yes	33.1	33.1 J	MSD
4603040321	SW6020B	HA-SB-05_2-3	460-304032-2	Cobalt	N	Yes	5.6	5.6 J	MSD
4603040321	SW6020B	HA-SB-05_2-3	460-304032-2	Potassium	N	Yes	924	924 J	MSD
4603040321	SW6020B	HA-SB-05_2-3	460-304032-2	Vanadium	N	Yes	30.2	30.2 J	MSD
4603040321	SW6020B	HA-SB-06_0-2	460-304032-9	Cobalt	N	Yes	6.6	6.6 J	MSD
4603040321	SW6020B	HA-SB-06_0-2	460-304032-9	Potassium	N	Yes	921	921 J	MSD
4603040321	SW6020B	HA-SB-06_0-2	460-304032-9	Vanadium	N	Yes	33.5	33.5 J	MSD
4603040321	SW6020B	HA-SB-06_2-3	460-304032-10	Cobalt	N	Yes	6.6	6.6 J	MSD
4603040321	SW6020B	HA-SB-06_2-3	460-304032-10	Potassium	N	Yes	808	808 J	MSD
4603040321	SW6020B	HA-SB-06_2-3	460-304032-10	Vanadium	N	Yes	35.8	35.8 J	MSD
4603040321	SW6020B	HA-SB-07_0-2	460-304032-7	Cobalt	N	Yes	6.1	6.1 J	MSD
4603040321	SW6020B	HA-SB-07_0-2	460-304032-7	Potassium	N	Yes	973	973 J	MSD
4603040321	SW6020B	HA-SB-07_0-2	460-304032-7	Vanadium	N	Yes	29.4	29.4 J	MSD
4603040311	E1633	HA-SB-07_2-3	460-304031-6	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	MSD
4603040321	SW6020B	HA-SB-07_2-3	460-304032-8	Cobalt	N	Yes	7	7 J	MSD
4603040321	SW6020B	HA-SB-07_2-3	460-304032-8	Potassium	N	Yes	979	979 J	MSD
4603040321	SW6020B	HA-SB-07_2-3	460-304032-8	Vanadium	N	Yes	33	33 J	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,1,1-Trichloroethane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,1,2-Trichloroethane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,1-Dichloroethane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,1-Dichloroethene	N	Yes	0.002	0.002 J	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,2,3-Trichlorobenzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,2,4-Trichlorobenzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,2-Dichlorobenzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,2-Dichloroethane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,2-Dichloropropane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,3-Dichlorobenzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	1,4-Dichlorobenzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	2-Butanone (Methyl Ethyl Ketone)	N	Yes	U	UJ	MSD

TABLE 13
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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	2-Hexanone (Methyl Butyl Ketone)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Acetone	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Benzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Bromodichloromethane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Chlorobenzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Chlorobromomethane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Chloroform (Trichloromethane)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Cyclohexane	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Ethylbenzene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Isopropylbenzene (Cumene)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Styrene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Tetrachloroethene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Toluene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Trichloroethene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Trifluorotrichloroethane (Freon 113)	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	cis-1,2-Dichloroethene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	cis-1,3-Dichloropropene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	m,p-Xylenes	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	o-Xylene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	trans-1,2-Dichloroethene	N	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	trans-1,3-Dichloropropene	N	Yes	U	UJ	MSD
4603040321	SW6020B	HA-SB-08_0-2	460-304032-5	Cobalt	N	Yes	7.4	7.4 J	MSD
4603040321	SW6020B	HA-SB-08_0-2	460-304032-5	Vanadium	N	Yes	35.4	35.4 J	MSD
4603040321	SW6020B	HA-SB-08_2-3	460-304032-6	Cobalt	N	Yes	6.2	6.2 J	MSD
4603040321	SW6020B	HA-SB-08_2-3	460-304032-6	Potassium	N	Yes	1340	1340 J	MSD
4603040321	SW6020B	HA-SB-08_2-3	460-304032-6	Vanadium	N	Yes	29.2	29.2 J	MSD
4603047881	SW6020B	MW-10_20240528	460-304788-11	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	MW-11_20240528	460-304788-5	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	MW-12_20240528	460-304788-6	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	MW-15_20240528	460-304788-7	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	MW-16_20240528	460-304788-8	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	MW-17_20240528	460-304788-9	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	MW-1_20240528	460-304788-1	Silver	D	Yes	U	UJ	MSD
4603045411	SW8270E	MW-2_20240523	460-304541-3	3,3'-Dichlorobenzidine	N	Yes	U	UJ	MSD
4603045411	SW8270E	MW-2_20240523	460-304541-3	4-Chloroaniline	N	Yes	U	UJ	MSD
4603045411	SW8270E	MW-2_20240523	460-304541-3	Acenaphthene	N	Yes	9.4 J	9.4 J	MSD
4603047881	SW6020B	MW-2_20240528	460-304788-2	Silver	D	Yes	U	UJ	MSD
4603047881	SW6020B	MW-8_20240528	460-304788-4	Silver	D	Yes	U	UJ	MSD
4603040321	SW8260D	HA-SB-07_2-3	460-304032-8	Methylene chloride (Dichloromethane)	N	Yes	0.0012 J	0.0015 UJ	MSD, TBK
4603045411	SW8270E	DUP-01_20240523	460-304541-4	2,4-Dichlorophenol	N	Yes	U	UJ	SUR

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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603045411	SW8270E	DUP-01_20240523	460-304541-4	2,4-Dimethylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	DUP-01_20240523	460-304541-4	2-Chlorophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	DUP-01_20240523	460-304541-4	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	SUR
4603045411	SW8270E	DUP-01_20240523	460-304541-4	2-Nitrophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	DUP-01_20240523	460-304541-4	4-Chloro-3-methylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	DUP-01_20240523	460-304541-4	4-Methylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	DUP-01_20240523	460-304541-4	Phenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	2,4-Dichlorophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	2,4-Dimethylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	2-Chlorophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	2-Nitrophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	4-Chloro-3-methylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	4-Methylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	FB-01_20240523	460-304541-6	Phenol	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	1,1,1-Trichloroethane	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	1,1-Dichloroethane	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	1,1-Dichloroethene	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	2-Butanone (Methyl Ethyl Ketone)	N	Yes	0.017	0.017 J	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Acetone	N	Yes	0.12	0.12 J	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Carbon disulfide	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Chloroethane	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Chloroform (Trichloromethane)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Cyclohexane	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Methyl acetate	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	Vinyl chloride	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	cis-1,2-Dichloroethene	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-02_0-2	460-285468-1	trans-1,2-Dichloroethene	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	1,1,1-Trichloroethane	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	1,1-Dichloroethane	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	1,1-Dichloroethene	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	2-Butanone (Methyl Ethyl Ketone)	N	Yes	0.0086	0.0086 J	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Acetone	N	Yes	0.068	0.068 J	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Carbon disulfide	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Chloroethane	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Chloroform (Trichloromethane)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Cyclohexane	N	Yes	U	UJ	SUR

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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Methyl acetate	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	Vinyl chloride	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	cis-1,2-Dichloroethene	N	Yes	U	UJ	SUR
4602854681	SW8260D	HA SB-03_0-2	460-285468-3	trans-1,2-Dichloroethene	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	1,1,1-Trichloroethane	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	1,1-Dichloroethane	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	1,1-Dichloroethene	N	Yes	0.00084	0.00084 J	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	2-Butanone (Methyl Ethyl Ketone)	N	Yes	0.0018 J	0.0018 J	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Acetone	N	Yes	0.021	0.021 J	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Carbon disulfide	N	Yes	0.0032	0.0032 J	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Chloroethane	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Chloroform (Trichloromethane)	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Cyclohexane	N	Yes	0.00053 J	0.00053 J	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Methyl acetate	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Vinyl chloride	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	cis-1,2-Dichloroethene	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	trans-1,2-Dichloroethene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	1,2,4,5-Tetrachlorobenzene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2,4-Dichlorophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2,4-Dimethylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2,4-Dinitrotoluene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2,6-Dinitrotoluene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2-Chlorophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2-Methylnaphthalene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2-Nitroaniline	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	2-Nitrophenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	3,3'-Dichlorobenzidine	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	3-Nitroaniline	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	4-Chloro-3-methylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	4-Methylphenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	4-Nitroaniline	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Acenaphthene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Acenaphthylene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Anthracene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Benzo(a)anthracene	N	Yes	U	UJ	SUR

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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603045411	SW8270E	MW-11_20240523	460-304541-5	Benzo(a)pyrene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Benzo(b)fluoranthene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Benzo(g,h,i)perylene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Benzo(k)fluoranthene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Carbazole	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Chrysene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Dibenz(a,h)anthracene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Dibenzofuran	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Diethyl phthalate	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Fluoranthene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Fluorene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Hexachlorobenzene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Hexachlorocyclopentadiene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	N-Nitrosodiphenylamine	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Naphthalene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Phenol	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	Pyrene	N	Yes	U	UJ	SUR
4603045411	SW8270E	MW-11_20240523	460-304541-5	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	SUR
4603040321	SW8260D	HA-SB-08_2-3	460-304032-6	Methylene chloride (Dichloromethane)	N	Yes	0.0012 J	0.0014 UJ	SUR, TBK
4603045231	E1633	DUP-01_20240523	460-304523-4	11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorobutanoic acid (PFBA)	N	Yes	22	22 J	SVR

TABLE 13
SYSTEM PERFORMANCE SUMMARY
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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorodecanoic acid (PFDA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorododecane sulfonic acid (PFDoS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorododecanoic acid (PFDODA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoroheptanoic acid (PFHpA)	N	Yes	29	29 J	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorohexanoic acid (PFHxA)	N	Yes	41	41 J	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorononanoic acid (PFNA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorooctanesulfonic acid (PFOS)	N	Yes	66	66 J	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorooctanoic acid (PFOA)	N	Yes	65	65 J	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoropentanoic acid (PFPeA)	N	Yes	58	58 J	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorobutanesulfonic acid (PFBS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorobutanoic acid (PFBA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorodecanoic acid (PFDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorododecane sulfonic acid (PFDoS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorododecanoic acid (PFDODA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR

TABLE 13
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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoroheptanoic acid (PFHpA)	N	Yes	14	14 J	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	7.8	7.8 J	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorohexanoic acid (PFHxA)	N	Yes	20	20 J	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorononanoic acid (PFNA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorooctanesulfonic acid (PFOS)	N	Yes	46	46 J	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorooctanoic acid (PFOA)	N	Yes	46	46 J	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoropentanoic acid (PFPeA)	N	Yes	28	28 J	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	11-Chloroeicosafuoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	25	25 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorobutanesulfonic acid (PFBS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorobutanoic acid (PFBA)	N	Yes	28	28 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorodecanoic acid (PFDA)	N	Yes	13	13 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorododecane sulfonic acid (PFDoDS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorododecanoic acid (PFDoDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoroheptanoic acid (PFHpA)	N	Yes	32	32 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	14	14 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorohexanoic acid (PFHxA)	N	Yes	36	36 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorononanoic acid (PFNA)	N	Yes	16	16 J	SVR

TABLE 13
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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorooctanesulfonic acid (PFOS)	N	Yes	72	72 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorooctanoic acid (PFOA)	N	Yes	47	47 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoropentanoic acid (PFPeA)	N	Yes	48	48 J	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorobutanoic acid (PFBA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorodecanoic acid (PFDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorododecane sulfonic acid (PFDoDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorododecanoic acid (PFDoDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoroheptanoic acid (PFHpA)	N	Yes	25	25 J	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	13	13 J	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorohexanoic acid (PFHxA)	N	Yes	31	31 J	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorononanoic acid (PFNA)	N	Yes	8.9	8.9 J	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorooctanesulfonic acid (PFOS)	N	Yes	72	72 J	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorooctanoic acid (PFOA)	N	Yes	79	79 J	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoropentanoic acid (PFPeA)	N	Yes	43	43 J	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR

TABLE 13
SYSTEM PERFORMANCE SUMMARY
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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	26	26 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorobutanesulfonic acid (PFBS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorobutanoic acid (PFBA)	N	Yes	33	33 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorodecanoic acid (PFDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorododecane sulfonic acid (PFDoDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorododecanoic acid (PFDoDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoroheptanoic acid (PFHpA)	N	Yes	36	36 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorohexanoic acid (PFHxA)	N	Yes	49	49 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorononanoic acid (PFNA)	N	Yes	8.4	8.4 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorooctanesulfonic acid (PFOS)	N	Yes	19	19 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorooctanoic acid (PFOA)	N	Yes	42	42 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoropentanoic acid (PFPeA)	N	Yes	65	65 J	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR

TABLE 13
SYSTEM PERFORMANCE SUMMARY
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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603046471	E1633	MW-17_20240524	460-304647-1	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorobutanesulfonic acid (PFBS)	N	Yes	7.1	7.1 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorobutanoic acid (PFBA)	N	Yes	25	25 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorodecanoic acid (PFDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorododecane sulfonic acid (PFDoDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorododecanoic acid (PFDoDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoroheptanoic acid (PFHpA)	N	Yes	14	14 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	7.6	7.6 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorohexanoic acid (PFHxA)	N	Yes	21	21 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorononanoic acid (PFNA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorooctanesulfonic acid (PFOS)	N	Yes	52	52 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorooctanoic acid (PFOA)	N	Yes	73	73 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoropentanoic acid (PFPeA)	N	Yes	20	20 J	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-17_20240524	460-304647-1	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	40	40 J	SVR

TABLE 13
SYSTEM PERFORMANCE SUMMARY
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SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603045231	E1633	MW-1_20240523	460-304523-2	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9CI-PF3ONS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoro(2-ethoxyethane) sulphonic acid (PFEEESA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorobutanesulfonic acid (PFBS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorobutanoic acid (PFBA)	N	Yes	38	38 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorodecanoic acid (PFDA)	N	Yes	5.1	5.1 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorododecane sulfonic acid (PFDoDS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorododecanoic acid (PFDoDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoroheptanoic acid (PFHpA)	N	Yes	37	37 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorohexanoic acid (PFHxA)	N	Yes	43	43 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorononanoic acid (PFNA)	N	Yes	12	12 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorooctanesulfonic acid (PFOS)	N	Yes	19	19 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorooctanoic acid (PFOA)	N	Yes	75	75 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoropentanoic acid (PFPeA)	N	Yes	39	39 J	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-1_20240523	460-304523-2	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9CI-PF3ONS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR

TABLE 13
SYSTEM PERFORMANCE SUMMARY
90-02 QUEENS BOULEVARD
BRONY, NEW YORK

SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603045231	E1633	MW-2_20240523	460-304523-3	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorobutanoic acid (PFBA)	N	Yes	25	25 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorodecanoic acid (PFDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorododecane sulfonic acid (PFDoDS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorododecanoic acid (PFDoDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoroheptanoic acid (PFHpA)	N	Yes	26	26 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	5.6	5.6 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorohexanoic acid (PFHxA)	N	Yes	35	35 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorononanoic acid (PFNA)	N	Yes	5.5	5.5 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorooctanesulfonic acid (PFOS)	N	Yes	66	66 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorooctanoic acid (PFOA)	N	Yes	61	61 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoropentanoic acid (PFPeA)	N	Yes	60	60 J	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	3-(Perfluoroheptyl)propanoic acid (7:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	3:3 Fluorotelomer carboxylic acid (3:3 FTCA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	4,8-Dioxa-3H-Perfluorononanoic Acid (ADONA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	N-Ethylperfluorooctane sulfonamidoethanol (N-EtFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	N-Methylperfluorooctane sulfonamide (N-MeFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	N-Methylperfluorooctane sulfonamidoethanol (N-MeFOSE)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoro(2-ethoxyethane) sulphonic acid (PFEESA)	N	Yes	U	UJ	SVR

TABLE 13
SYSTEM PERFORMANCE SUMMARY
90-02 QUEENS BOULEVARD
BRONY, NEW YORK

SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoro(4-methoxybutanoic) acid (PFMBA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoro-2-propoxypropanoic acid (PFPrOPrA)(GenX) (HFPO-DA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoro-3-methoxypropanoic acid (PFMPA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorobutanesulfonic acid (PFBS)	N	Yes	11	11 J	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorobutanoic acid (PFBA)	N	Yes	43	43 J	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorodecanesulfonic acid (PFDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorodecanoic acid (PFDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorododecane sulfonic acid (PFDoDS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorododecanoic acid (PFDoDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoroheptanesulfonic acid (PFHpS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoroheptanoic acid (PFHpA)	N	Yes	19	19 J	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	7.9	7.9 J	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorohexanoic acid (PFHxA)	N	Yes	34	34 J	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorononane sulfonic acid (PFNS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorononanoic acid (PFNA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorooctanoic acid (PFOA)	N	Yes	79	79 J	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoropentanoic acid (PFPeA)	N	Yes	30	30 J	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorotetradecanoic acid (PFTeDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluorotridecanoic acid (PFTrDA)	N	Yes	U	UJ	SVR
4603046471	E1633	MW-8_20240524	460-304647-3	Perfluoroundecanoic acid (PFUnDA)	N	Yes	U	UJ	SVR
4603045231	E1633	DUP-01_20240523	460-304523-4	Perfluorobutanesulfonic acid (PFBS)	N	Yes	U	UJ	SVR, ION
4603045231	E1633	MW-11_20240523	460-304523-5	Perfluoropentanesulfonic acid (PFPeS)	N	Yes	U	UJ	SVR, ION
4603045231	E1633	MW-12_20240523	460-304523-1	Perfluorooctane sulfonamide (PFOSA)	N	Yes	U	UJ	SVR, ION
4603046471	E1633	MW-15_20240524	460-304647-5	Perfluorobutanesulfonic acid (PFBS)	N	Yes	U	UJ	SVR, ION
4603046471	E1633	MW-16_20240524	460-304647-4	Perfluorohexanesulfonic acid (PFHxS)	N	Yes	U	UJ	SVR, ION
4603045231	E1633	MW-2_20240523	460-304523-3	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	N	Yes	U	UJ	SVR, ION
4603045231	E1633	MW-2_20240523	460-304523-3	Perfluorobutanesulfonic acid (PFBS)	N	Yes	U	UJ	SVR, ION
4603040321	SW8260D	DUP-01_20240515	460-304032-12	Methylene chloride (Dichloromethane)	N	Yes	0.0012 J	0.0015 U	TBK
4603040321	SW8260D	HA-SB-04_0-2	460-304032-3	Methylene chloride (Dichloromethane)	N	Yes	0.0014	0.0014 U	TBK
4603040321	SW8260D	HA-SB-04_2-3	460-304032-4	Methylene chloride (Dichloromethane)	N	Yes	0.00084 J	0.0011 U	TBK
4603040321	SW8260D	HA-SB-05_0-2	460-304032-1	Methylene chloride (Dichloromethane)	N	Yes	0.0012 J	0.0014 U	TBK
4603040321	SW8260D	HA-SB-05_2-3	460-304032-2	Methylene chloride (Dichloromethane)	N	Yes	0.0018	0.0018 U	TBK
4603040321	SW8260D	HA-SB-06_0-2	460-304032-9	Methylene chloride (Dichloromethane)	N	Yes	0.0019	0.0019 U	TBK
4603040321	SW8260D	HA-SB-06_2-3	460-304032-10	Methylene chloride (Dichloromethane)	N	Yes	0.0018	0.0018 U	TBK
4603040321	SW8260D	HA-SB-07_0-2	460-304032-7	Methylene chloride (Dichloromethane)	N	Yes	0.0016	0.0016 U	TBK
4603040321	SW8260D	HA-SB-08_0-2	460-304032-5	Methylene chloride (Dichloromethane)	N	Yes	0.0011 J	0.0014 U	TBK

Notes:
DUP = Laboratory duplicate relative percent difference exceeds the specified limits.
EMC = Estimated maximum possible concentration results.
FDP = Field duplicate qualifier due to an exceedance of the specified limits.
LCP = Low canister pressure.

TABLE 13
SYSTEM PERFORMANCE SUMMARY
90-02 QUEENS BOULEVARD
BRONY, NEW YORK

SDG	Method	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
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SUR = Surrogate percent recovery outside the specified limits.

MBK = Method blank contamination.

TBK = Trip blank contamination.

LCS = Laboratory control/laboratory control spike duplicate percent recoveries or relative percent difference were outside the specified limits.

MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.

SVR = See validation report, Table 11. PFAS qualified due to abnormalities in sample preparation.

ION = Ion ratios were reviewed and were outside the limits of 50-150% or the signal to noise ratios (S/N) were not ≥ 10 for all ions used for quantitation/ ≥ 3 for all ions used for confirmation

T = Total

D = Dissolved

N = Not applicable

U = The compound was analyzed for but not detected.

UJ = The compound was not detected. The reported sample quantitation limit is approximate.

J = Estimated concentration



ERIC HITCHENS

Staff Scientist

EDUCATION

B.A., Physics, University of California-Santa Barbara

SPECIAL STUDIES AND COURSES

OSHA 40 Hour HAZWOPER Safety Certification

OSHA 10 Hour Construction Safety Certification

APNG 8 Hour Nuclear Gauge Safety Certification

Cetco Liquid Boot® Inspector Certification

Land Science Geo-Seal® Inspector Certification

Eric is a field technician with one year of experience in field work and will focus his time at Haley & Aldrich serving multiple markets. He has experience inspecting vapor intrusion mitigation systems (VIMS) and operating nuclear gauges to measure soil density and moisture content in the field. He is skilled in physics, data acquisition and analysis, field documentation, instrumentation, and experimental methods. He received the Haley & Aldrich Award for Outstanding Safety Performance in 2018.

RELEVANT PROJECT EXPERIENCE

New Industrial Developments

San Leandro Business Center (SLBC), San Leandro, California. As lead field staff, Eric is currently responsible for geotechnical oversight of general site grading, underground utility installation, ground improvement, and pavement construction with minimal supervision from senior engineers. He coordinates directly with the general contractor and its subcontractors, performs nuclear gauge compaction testing on native and imported soils, collects soil samples and oversees trench backfill. Additionally, Eric oversaw compaction grouting and lime treatment for ground improvement.

New Commercial Developments

3181 Porter Drive Development, Palo Alto, California. Eric oversaw trench dam installation for the vapor intrusion mitigation system and performed air monitoring during trench excavation using a photoionization detector (PID).

New Residential Developments

America Center - Residence and Fairfield Inns, San Jose, California. As lead field staff, Eric is responsible for geotechnical oversight of general site grading, underground utility installation, and pavement construction with minimal supervision from senior engineers. Performs nuclear gauge testing on native and imported soils. Collects soil samples. Coordinates with contractors and installers. Oversaw installation of the sub-slab venting pipes for the vapor intrusion mitigation system (VIMS). Oversaw repairs and testing of the VIMS after initial installation.

Flats at Metro, Mountain View, California. Eric is currently performing third-party oversight and testing of the installation of the Geo-Seal vapor intrusion mitigation systems for several flats and townhouses. He coordinates with contractors and installers, collects field data and records field sketches and helps senior staff prepare installation completion reports.

University Terrace, Palo Alto, California. Eric oversaw installation and testing of the Liquid Boot vapor intrusion mitigation systems for several single-family homes. He coordinated with contractors and installers, collected field data and records field sketches and prepared deliverable field reports to the client under supervision from senior staff.

Radius at Whisman Station, Mountain View, California. Eric oversaw installation and testing of the Liquid Boot vapor intrusion mitigation systems for several single-family homes, flats, and townhouses. He coordinated with contractors

and installers, collected field data and records field sketches and helped senior staff prepare installation completion reports.

Confidential Energy Client Manufactured Gas Plant (MGP) Remediation

Remediation, San Francisco, California. Eric is the go-to person for nuclear gauge testing and the geotechnical field staff for backfill oversight. He collected bulk soil samples for laboratory testing, tested native material and imported fill and oversaw and gave recommendation for backfill procedures around utilities in coordination with senior staff. Additionally, he installed and troubleshoot vibration monitoring equipment and oversaw testing of the vapor mitigation system.

Industrial Remediation

United Technologies Corporation Remediation, Chula Vista, California. As the go-to person for truck scales operation and soil sampling, wrote a seven-page field manual to guide future staff onsite.

EPA's Middlefield – East Middlefield Road – Whisman Road Superfund Sites

Waverly Development, 277 Fairchild Drive, Mountain View, California. Eric is the lead field staff responsible for oversight and testing of the installation of the Liquid Boot vapor intrusion mitigation system and sub-slab depressurization systems for several single-family and multi-family homes. He coordinates with contractors and installers, collects field data and records field sketches and prepares installation completion letters and reviews engineering bulletins under direction from senior staff.

350 Ellis Street, Mountain View, California. Eric currently performs drainage of the sub-slab depressurization (SSD) system. Performs inspections and air sampling of the SSD system.

340 East Middlefield Road, Mountain View, California. Eric currently performs inspections of the SSD system.

440 East Middlefield Road, Mountain View, California. Eric currently performs inspections of the SSD system.

615 National Avenue, Mountain View, California. Eric currently performs inspections of the SSD system.

Residence 4, Mountain View, California. Eric currently performs inspections of the SSD system.

Public Works

Alviso Storm Pump Station, San Jose, California. Eric performed construction oversight of trench excavations and was the lead field staff for nuclear gauge testing and backfill oversight during levee construction. He sampled drainage and basin water and prepared a memorandum for client delivery.

Mines and Quarries

Pilarcitos Quarry, Half Moon Bay, California. Eric performed water sampling of basin and receiving water, coordinated with site management and identified key site safety issues.

Colleges and Universities

California Academy of the Arts, San Francisco, California. Eric planned and executed environmental soil sampling.

KRISTINA ILINA

Staff Environmental Scientist

EDUCATION

M.S., Organic Chemistry, Georgia State University-Atlanta, Georgia

M. Eng. Chemical Engineering of Natural Energy Products and Carbon-based Materials, Volgograd State Technical University-Russia

B.E., Chemical Engineering and Biotechnology, Volgograd State Technical University-Russia

B.E., World Economics, Volgograd State Technical University-Russia

PROFESSIONAL REGISTRATIONS

2021 Drinking Water Laboratory Analyst, GA (License No WL014708)

2021 Wastewater Laboratory Analyst, GA (License No WWL014904)

PROFESSIONAL SOCIETIES

American Chemical Society

SPECIAL STUDIES AND COURSES

40-Hour OSHA Hazardous Waste Operations and Emergency Response Training (29 CFR 1910.120)

Kristina is a staff environmental scientist with experience in an Environmental NELAC accredited laboratory and daily research and development (R&D) of novel compounds in a chemical laboratory and teaching experience.

PUBLICATIONS

“Cyanine Dyes Containing Quinoline Moieties: History, Synthesis, Optical Properties and Applications,” with M. Henary, *Chem. Eur. J.* Accepted Author Manuscript, 2020. DOI:10.1002/chem.202003697

“Squaraine Dyes: Molecular Design for Different Applications and Remaining Challenges,” with W.M. MacCuaig, M. Laramie, J. N. Jeouty, L. R. McNally, and M. Henary. *Bioconjugate Chemistry*, 2020, 31 (2), 194-213. DOI: 10.1021/acs.bioconjchem.9b00482

“Alternative of using a bimetallic hydrotreatment reactor for an L-35-8 / 300B type systems,” with Y.L. Zotov Y.L., International conference-school on chemical technology ChT'16. Collection of report theses of the satellite conference of the XX Mendeleev Congress on General and Applied Chemistry, Volgograd, May 16-20, 2016: Total of 3 Vol. - Volgograd: VSTU, 216. - Vol. 3 - P. 80.

“Alternative of changing of the heat flows for the catalytic reforming system of type L-35-8 / 300B,” with Y.L. Zotov, *Journal of Scientific Publications of Post-Graduates and Doctoral Students*, 2016. No. 5. P. 197-198

“Synthesis, Characterization, Optical Properties and DNA Cleavage Study of Symmetrical Pentamethine Cyanine Dyes Containing Quinoline Moieties,” Master’s Thesis in Organic Chemistry, Georgia State University-Atlanta, Georgia, 2020. “Naphtha hydrotreating process efficiency enhancing,” Bachelor’s thesis in Chemical Engineering of Natural Energy Products and Carbon-based Materials and Biotechnology, Volgograd State Technical University-Russia, 2016.

“International economic activity of oil and gas companies in modern economic conditions,” Bachelor’s thesis in World Economics, Volgograd State Technical University-Russia, 2015.

“Theoretical and engineering foundations of vinyl chloride synthesis,” Bachelor’s thesis in Chemical Engineering and Biotechnology, Volgograd State Technical University-Russia, 2014.

APPENDIX I

Daily Reports

DAILY FIELD REPORT

Project	90-02 Queens Blvd Site	Report No.	1
NYSDEC BCP Site	241249	Date	5/15/2024
Location	90-02 Queens Boulevard, Queens, NY	File No.	0208933
Client	9002 Commercial Unit LLC	Temperature	L: 60 H: 73
Contractor	Haley & Aldrich, Lakewood Environmental Services, Corp (Lakewood), NOVA Geophysical Services (NOVA)	Wind Direction	NE to SW
Weather	Overcast	Personnel on Site	G. Poulton, Z. Richards, N. Mooney
Humidity	83%	Time on Site	7:00am to 6:30pm

H & A of New York Engineering and Geology, LLP (Haley & Aldrich) was present to document implementation of the NYSDEC-approved May 2024 Site Characterization Work Plan (SCWP) prepared by Haley & Aldrich. Site Observations are summarized below.

Daily Observations:

- Contractor (NOVA) conducted ground penetrating radar (gpr) survey to clear for utilities and any potential anomalies.
- Contractor (Lakewood) advanced soil borings and installed groundwater monitoring wells.
- Soil samples were collected from soil boring locations: SB-04, SB-05, SB-06, SB-07, and SB-08.
- Monitoring well installation and development was completed at monitoring well locations: MW-15, MW-16, and MW-17.

Samples Collected:

- The following soil samples were collected: HA-SB-04_0-2, HA-SB-04_2-3, HA-SB-05_0-2, HA-SB-05_2-3, HA-SB-06_0-2, HA-SB-06_2-3, HA-SB-07_0-2, HA-SB-07_2-3, HA-SB-08_0-2, and HA-SB-08_2-3.
- The soil samples were relinquished to Eurofins Environmental Testing Northeast, LLC of Edison, NJ (a NYSDOH ELAP-certified laboratory) under standard chain of custody procedures.

CAMP Activities:

- No air monitoring was conducted during ground-intrusive activities as all ground-intrusive activities were conducted indoors.

Activities Planned for Coming Week:

- Collection of environmental samples (groundwater, soil vapor) at approximately 16 locations.

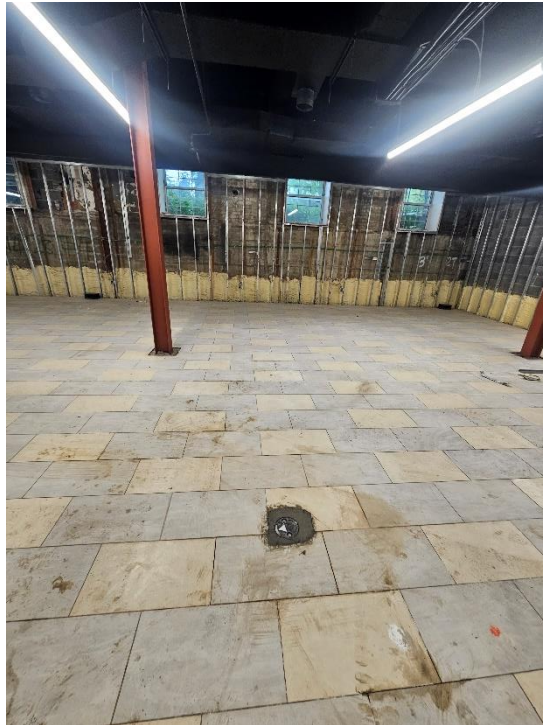
Site Photographs:

Photo 1: View of installed monitoring well MW-17, facing east.

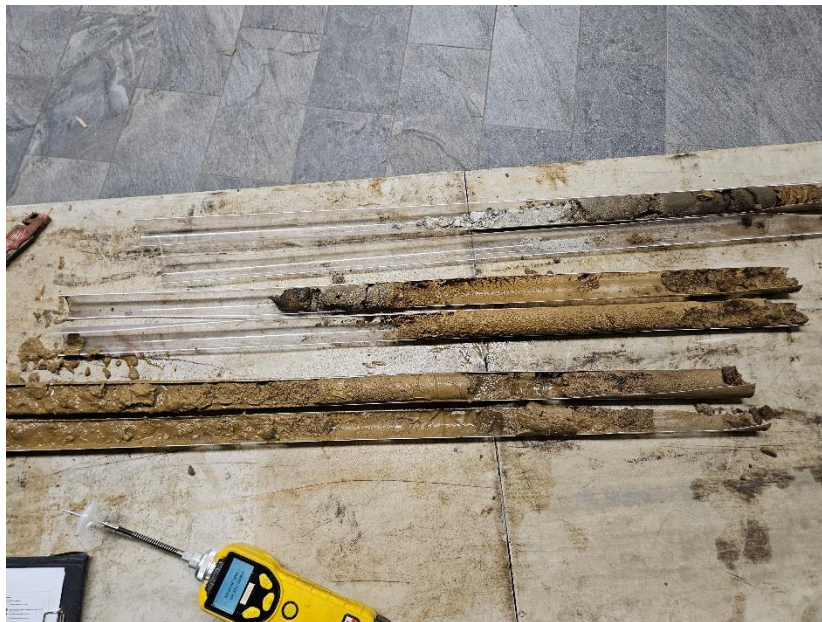
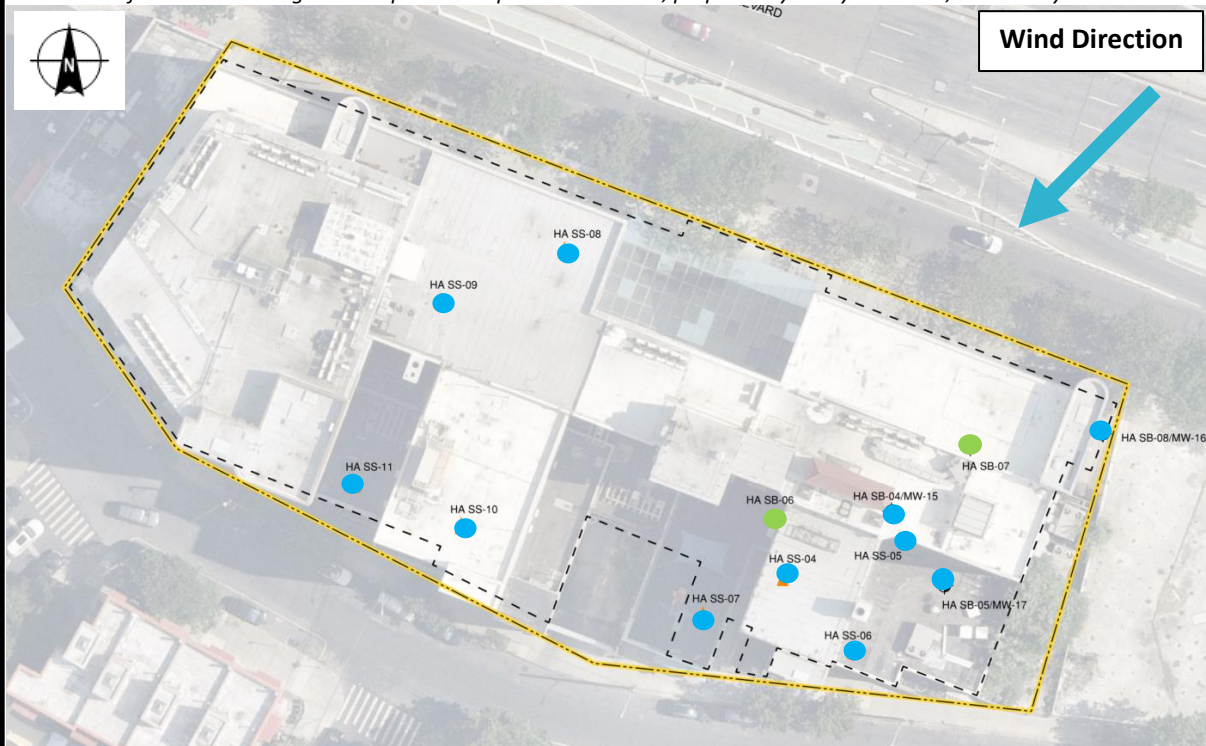


Photo 2: View of soil from SB-05 from 0 to 12 feet below grade surface, facing South.

Site Plan:

Reference: SCWP Figure 2 Proposed Sample Location Plan, prepared by Haley & Aldrich, dated May 2024



LEGEND:

- In Progress
- Complete

DAILY FIELD REPORT

Project	90-02 Queens Blvd Site	Report No.	2
NYSDEC BCP Site	241249	Date	5/16/2024
Location	90-02 Queens Blvd, Queens, NY	File No.	0208933
Client	9002 Commercial Unit LLC	Temperature	L: 59 H: 63
Contractor	Haley & Aldrich	Wind Direction	NE to SW
Weather	Overcast	Personnel on Site	G. Poulton, Z. Richards, N. Mooney
Humidity	76%	Time on Site	7:00am to 7:30pm

H & A of New York Engineering and Geology, LLP (Haley & Aldrich) was present to document implementation of the NYSDEC-approved May 2024 Site Characterization Work Plan (SCWP) prepared by Haley & Aldrich. Site Observations are summarized below.

Daily Observations:

- Soil vapor samples and co-located indoor air samples were collected from soil vapor locations: HA SS-04, HA SS-05, HA SS-06, HA SS-07, HA SS-08, HA SS-09, HA SS-10, and HA AA-12.

Samples Collected:

- The following soil vapor samples were collected: HA-SS-04, HA-IA-04, HA-SS-05, HA-IA-05, HA-SS-06, HA-IA-06, HA-SS-07, HA-IA-07, HA-SS-08, HA-IA-08, HA-SS-09, HA-IA-09, HA-SS-10, HA-IA-10, HA-AA-12.
- The soil vapor samples were relinquished to Eurofins Environmental Testing Northeast, LLC of Edison, NJ (a NYSDOH ELAP-certified laboratory) under standard chain of custody procedures.

CAMP Activities:

- No air monitoring was conducted during ground-intrusive activities as all ground-intrusive activities were conducted indoors.

Activities Planned for Coming Week:

- Collection of environmental samples (groundwater, soil vapor) at approximately 9 locations.

Site Photographs:

Photo 1: View of soil vapor sampling at HA SS-07, facing Southeast.

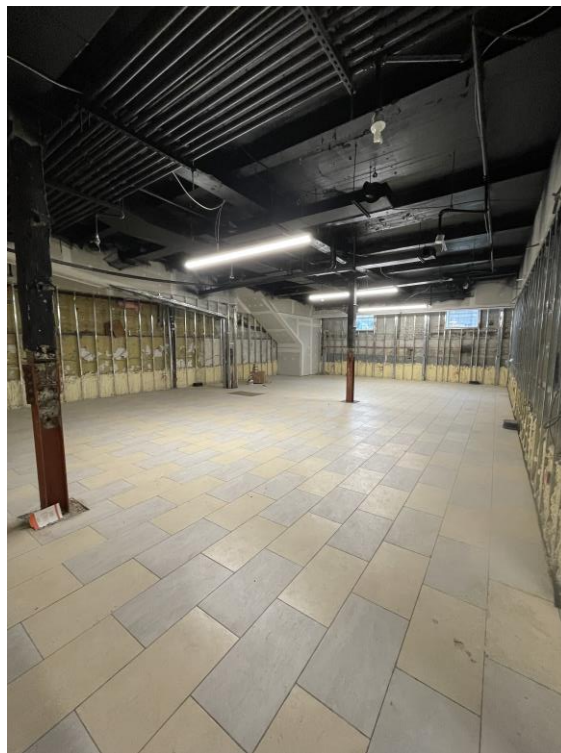
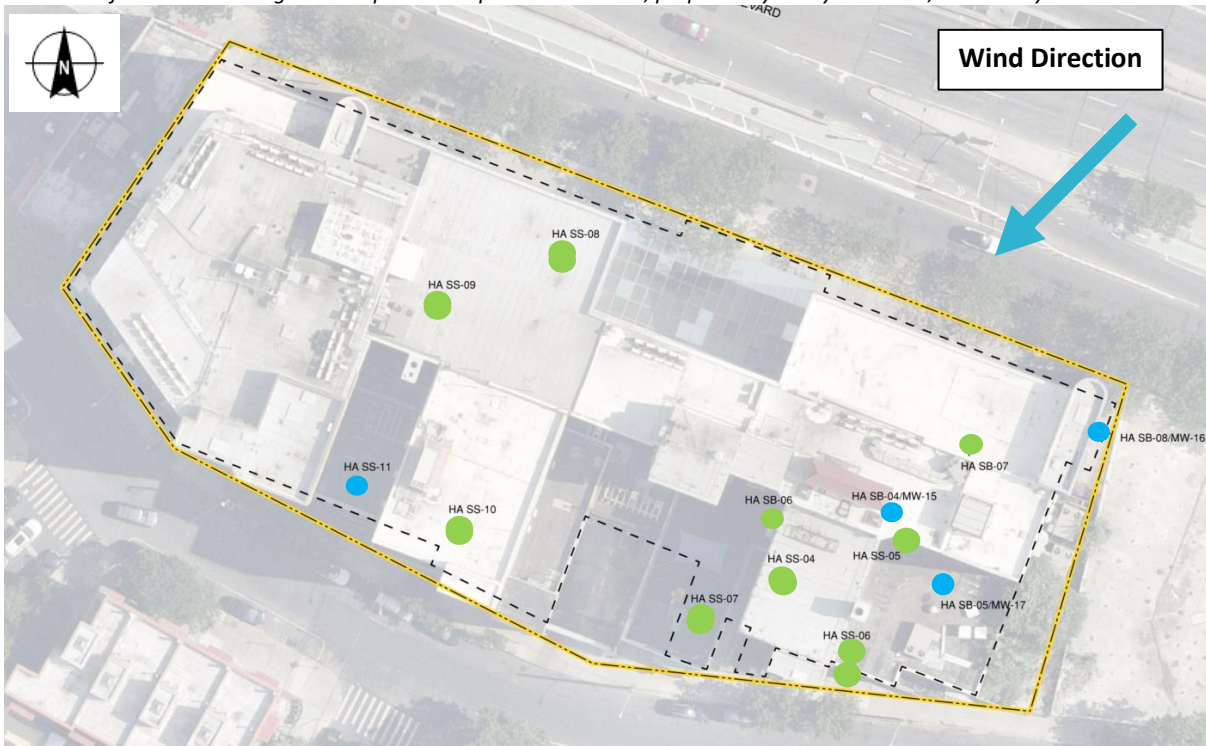


Photo 2: View of Site conditions, facing North.

Site Plan:

Reference: SCWP Figure 2 Proposed Sample Location Plan, prepared by Haley & Aldrich, dated May 2024



LEGEND:

- In Progress
- Complete

DAILY FIELD REPORT

Project	90-02 Queens Blvd Site	Report No.	3
NYSDEC BCP Site	241249	Date	5/23/2024
Location	90-02 Queens Blvd, Queens, NY	File No.	0208933
Client	9002 Commercial Unit LLC	Temperature	L: 67 H: 81
Contractor	Haley & Aldrich	Wind Direction	NW to SE
Weather	Cloudy	Personnel on Site	G. Poulton, A. Stewart
Humidity	85%	Time on Site	7:00am to 5:00pm

H & A of New York Engineering and Geology, LLP (Haley & Aldrich) was present to document implementation of the NYSDEC-approved May 2024 Site Characterization Work Plan (SCWP) prepared by Haley & Aldrich. Site Observations are summarized below.

Daily Observations:

- A soil vapor sample and co-located indoor air sample were collected from soil vapor location: HA-SS-11.
- Groundwater samples were collected from relevant on-site monitoring wells without measured light non-aqueous phase liquid (LNAPL): MW-1, MW-2, MW-11, MW-12.

Samples Collected:

- The following soil vapor samples were collected: HA-SS-11, HA-IA-11.
- The following groundwater samples were collected: MW-1_20240523, MW-2_20240523, MW-11_20240523, MW-12_20240523.
- The soil vapor samples were relinquished to Eurofins Environmental Testing Northeast, LLC of Edison, NJ (a NYSDOH ELAP-certified laboratory) under standard chain of custody procedures.

CAMP Activities:

- None.

Activities Planned for Coming Week:

- Collection of groundwater samples at approximately 5 locations.

Site Photographs:

Photo 1: View of soil vapor and indoor air sampling at HA-SS-11, facing west.

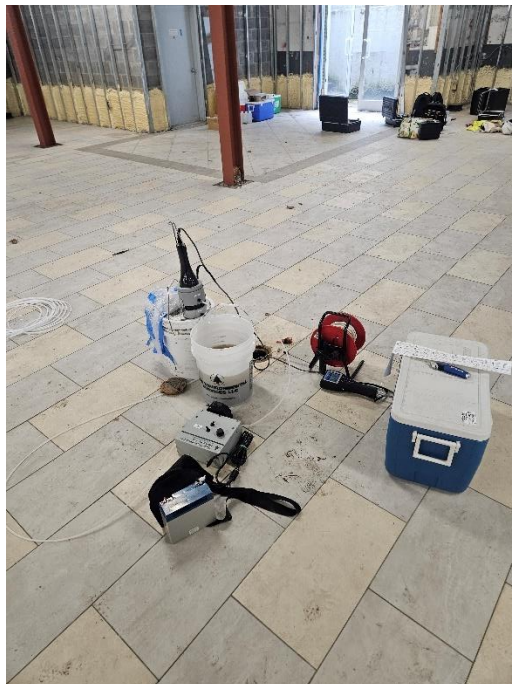


Photo 2: View of groundwater sampling at MW-2, facing south.

Site Plan:

Reference: SCWP Figure 2 Proposed Sample Location Plan, prepared by Haley & Aldrich, dated May 2024



LEGEND:

- In Progress
- Complete

DAILY FIELD REPORT

Project	90-02 Queens Blvd Site	Report No.	4
NYSDEC BCP Site	241249	Date	5/24/2024
Location	90-02 Queens Blvd, Queens, NY	File No.	0208933
Client	9002 Commercial Unit LLC	Temperature	L: 63 H: 90
Contractor	Haley & Aldrich	Wind Direction	NW to SE
Weather	Clear	Personnel on Site	G. Poulton, S. Thomsen
Humidity	65%	Time on Site	6:00am to 2:00pm

H & A of New York Engineering and Geology, LLP (Haley & Aldrich) was present to document implementation of the NYSDEC-approved May 2024 Site Characterization Work Plan (SCWP) prepared by Haley & Aldrich. Site Observations are summarized below.

Daily Observations:

- Groundwater samples were collected from relevant on-site monitoring wells without measured light non-aqueous phase liquid (LNAPL): MW-8, MW-10, MW-15, MW-16, and MW-17.

Samples Collected:

- The following groundwater samples were collected: MW-8_20240524, MW-10_20240524, MW-15_20240524, MW-16_20240524, and MW-17_20240524.
- The groundwater samples were relinquished to Eurofins Environmental Testing Northeast, LLC of Edison, NJ (a NYSDOH ELAP-certified laboratory) under standard chain of custody procedures.

CAMP Activities:

- None.

Activities Planned for Coming Week:

- None.

Site Photographs:

Photo 1: View of groundwater sampling at MW-17, facing northeast.



Photo 2: View of groundwater sampling at MW-10, facing north.

Site Plan:

Reference: SCWP Figure 2 Proposed Sample Location Plan, prepared by Haley & Aldrich, dated May 2024



LEGEND:

- In Progress
- Complete

DAILY FIELD REPORT

Project	90-02 Queens Blvd Site	Report No.	5
NYSDEC BCP Site	241249	Date	5/28/2024
Location	90-02 Queens Blvd, Queens, NY	File No.	0208933
Client	9002 Commercial Unit LLC	Temperature	L: 65 H: 81
Contractor	Haley & Aldrich	Wind Direction	SW to NE
Weather	Sunny	Personnel on Site	G. Poulton
Humidity	85%	Time on Site	11:30am to 3:45pm

H & A of New York Engineering and Geology, LLP (Haley & Aldrich) was present to document implementation of the NYSDEC-approved May 2024 Site Characterization Work Plan (SCWP) prepared by Haley & Aldrich. Site Observations are summarized below.

Daily Observations:

- Groundwater samples were collected from relevant on-site monitoring wells without measured light non-aqueous phase liquid (LNAPL): MW-1, MW-2, MW-8, MW-10, MW-11, MW-12, MW-15, MW-16, and MW-17.

Samples Collected:

- The following groundwater samples were collected: MW-1_20240528, MW-2_20240528, MW-8_20240528, MW-10_20240528, MW-11_20240528, MW-12_20240528, MW-15_20240528, MW-16_20240528, and MW-17_20240528.
- The groundwater samples were relinquished to Eurofins Environmental Testing Northeast, LLC of Edison, NJ (a NYSDOH ELAP-certified laboratory) under standard chain of custody procedures.

CAMP Activities:

- None.

Activities Planned for Coming Week:

- None.

Site Photographs:

Photo 1: View of groundwater sampling at MW-8, facing south.

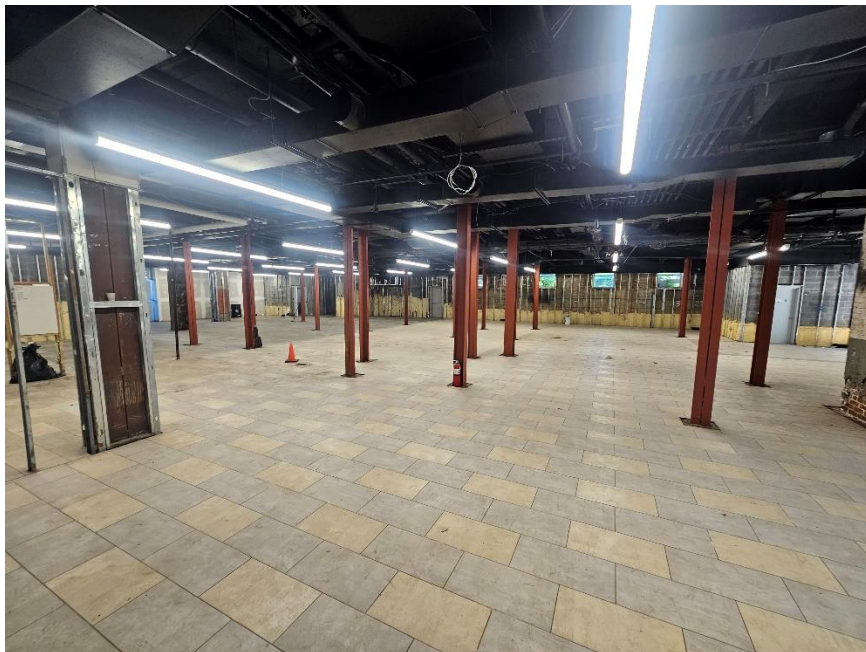


Photo 2: View of site conditions, facing east.

Site Plan:

Reference: SCWP Figure 2 Proposed Sample Location Plan, prepared by Haley & Aldrich, dated May 2024



LEGEND:

- In Progress
- Complete

DAILY FIELD REPORT

Project	90-02 Queens Blvd Site	Report No.	6
NYSDEC BCP Site	241249	Date	6/13/2024
Location	90-02 Queens Blvd, Queens, NY	File No.	0208933
Client	9002 Commercial Unit LLC	Temperature	L: 69 H: 85
Contractor	DPK Consulting, LLC (DPK), Coastal Environmental Solutions, Inc. (Coastal)	Wind Direction	S to N
Weather	Clear	Personnel on Site	G. Poulton
Humidity	52%	Time on Site	6:45am to 4:45pm

H & A of New York Engineering and Geology, LLP (Haley & Aldrich) was present to document implementation of the NYSDEC-approved May 2024 Site Characterization Work Plan (SCWP) prepared by Haley & Aldrich. Site Observations are summarized below.

Daily Observations:

- Haley & Aldrich completed site-wide gauging of monitoring wells.
- DPK completed survey of monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, and MW-17.
- Coastal disposed of two (2) DOT-approved drums of investigation-derived waste containing purge water from well development and groundwater sampling.

Samples Collected:

- None.

CAMP Activities:

- None.

Activities Planned for Coming Week:

- None.

Site Photographs:

Photo 1: View of contractor surveying monitoring wells, facing east.



Photo 2: View of contractor surveying monitoring wells, facing west.

Site Plan:

Reference: SCWP Figure 2 Proposed Sample Location Plan, prepared by Haley & Aldrich, dated May 2024



LEGEND:

- Surveyed Monitoring Well