60-66 GERRY STREET

60-66 GERRY STREET
BROOKLYN, NEW YORK
BLOCK 2269, LOT 3 and LOT 5

Supplemental Groundwater Remedial Design Document

NYSDEC BCP SITE NUMBER: C224396

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MARCH 2025

CERTIFICATIONS

I, George J. Cambourakis (license number 060234 certify that I am currently a NYS registered professional engineer and that this Supplemental Groundwater Remedial Design Document was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31).

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

NYS Professional Engineer #060234

3/26/25

Date

Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

SUPPLEMENTAL GROUNDWATER REMEDIAL DESIGN DOCUMENT

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LIST OF ACRONYMS

Acronym	Definition
3DMe	3-D Microemulsion®
AWQS	Ambient Water Quality Standards
BCP	Brownfield Cleanup Program
BDI Plus	Bio-Dechlor Inoculum® Plus
CVOCs	Chlorinated Volatile Organic Compounds
ISBR + C	In-situ bio-remedial + chemical
ug/kg	Micrograms per kilogram
ug/L	Micrograms per liter
ng/l	Nanograms per liter
NYC DEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
ORP	Oxygen Reduction Potential
PAHs	Polycyclic Aromatic Hydrocarbons
PDGI	Pre-Design Groundwater Investigation
PGWSCO	Protection of Groundwater Soil Cleanup Objective
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
RIR	Remedial Investigation Report
RRSCO	Restricted Residential Use Soil Cleanup Objective
SVOCs	Semi Volatile Organic Compounds
S-MZVI	S-MicroZVI®
S.E.T., PC	Structural Engineering Technologies, PC
SGRDD	Supplemental Groundwater Remedial Design Document
SRIWP	Supplemental Remedial Investigation Work Plan
TOGS	Technical and Operational Guidance Series (1.1.1)
UUSCO	Unrestricted Use Soil Cleanup Objective
VOCs	Volatile Organic Compounds
ZVI	Zero-valent iron

INTRODUCTION

This Supplemental Groundwater Remedial Design Document (S G R D D) has been prepared by Structural Engineering Technologies, PC (S.E.T., PC) on behalf of 66 Gerry, LLC (the Volunteer) for the property located at 60-66 Gerry Street in Brooklyn, New York (the Site) (NYSDEC BCP ID C224396). This SGRI is consistent with the New York State Department of Environmental Conservations (NYSDEC) requirements as discussed in the NYSDEC Approved March 2025 Remedial Action Work Plan (RAWP).

S.E.T., PC previously conducted a Remedial Investigation (RI) at the Site from January 29, 2024 to February 9, 2024, and June 21, 2024 to July 8, 2024. The RI included the collection of soil, groundwater, soil vapor, and ambient air samples. The primary contaminants of concern for the Site include volatile organic compounds (VOCs), specifically chlorinated VOCs (CVOCs) in the soil, groundwater, and soil vapor. Additionally, levels of semi-volatile organic compounds (SVOCs) and metals related to historic fill material are present in the soil. Levels of polycyclic aromatic hydrocarbons (PAHs) were detected in the groundwater.

This Supplemental Groundwater Remediation Design Report presents findings of the February- March 2025 Pre-Design Groundwater Investigation (PDGI). The PDGI characterizes the on-site groundwater conditions following the lowering of the water table due to off-site dewatering activities from at least July to November 2024. The sampling was performed by S.E.T., PC personnel between December 27, 2024 and February 19, 2025. **Figure 1** provides the Site location map.

The PDGI data will be used to design the in-situ bio-remedial + chemical (ISBR + C) remedial design parameters, including the proposed ISBR + C injection quantities, dosing calculations, and injection amounts and locations. The PDGI results will also be used to calculate the proposed amount of bio-remedial and chemical quantities required for the soil mixing at the bottom of the remedial excavation of Hotspot A.

Additionally, this report also details the installation and sampling of monitoring wells following the performance of the ISBR + C injection and before the dewatering activities.

1.0 Supplemental Remedial Investigation Work Plan Overview

The following is a summary of the groundwater activities conducted at the Site:

- Dewatering activities at the nearby property across Gerry Street, 177 Harrison Avenue (Block 2266, Lot 52) lowered the groundwater from at least July 2024 to November 11, 2024.
- On July 8, 2024 and monitoring wells 23MW-1, 23MW-2, 23MW-3, and 23MW-4S were dry and could not be sampled. Turbid water was identified in 23MW4-D on July 8, 2024, and S.E.T., PC collected a turbid groundwater sample from monitoring well 23MW4-D under the direct supervision of the NYSDEC Project Manager. The groundwater sample from 23MW-4D was analyzed for VOCs via EPA Method 8260C, SVOCs via EPA Method 8270, Pesticides via EPA Method 8081, PCBs via EPA Method 8082, TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010, 21 PFAS compounds via EPA Method 1633, and 1,4-Dioxane via EPA Method 8270 SIM. The results indicated that no CVOCs were found in exceedance of the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQSs) in this sample.
- The NYSDEC Project Manager, Madeleine Babick, indicated via email on November 19, 2024, that the dewatering system was shut down on November 11, 2024. Ms. Babick requested that water levels at the Site be checked weekly until the water table rebounds to approximately pre-pumping conditions before groundwater samples are collected. S.E.T., PC returned to the Site on December 9, 2024 to measure the depth to water in the monitoring wells to determine if the groundwater has rebounded to its static/pre-pumping conditions elevation. The depth of groundwater at the Site was measured with an interface probe and ranged from 11.65 ft-bg in 23MW-1 to 12.35 ft-bg in 23MW-4D indicating the groundwater table has returned to approximately pre-pumping conditions.
- Based upon the depth to water measured on December 9, 2024, S.E.T., PC received verbal approval from the NYSDEC to install monitoring wells 23MW-5 and 23MW-6 on December 19, 2024.
- Monitoring wells 23MW-5 and 23MW-6 were installed to approximately 16 ft-bgs on the Lot 5 portion of the Site with a track mounted Geoprobe by Coastal Environmental Solutions, Inc. on December 27, 2024.
- Four soil samples (23MW-5 (10-12' and 14-16') and 23MW-6 (12-14' and 14-16')) were collected on December 27, 2024, and analyzed for VOCs via EPA Method 8260.
- Groundwater samples were collected from the seven on-Site monitoring wells (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) on January 7 and 8, 2025. The groundwater samples were analyzed for VOCs via EPA Method 8260C, SVOCs via EPA Method 8270, Pesticides via EPA Method 8081, PCBs via

EPA Method 8082, TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010, 21 PFAS compounds via EPA Method 1633, and 1,4-Dioxane via EPA Method 8270 SIM as well as the groundwater treatment parameters including pH, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), Total Fe, Total Mn, Dissolved Fe, Dissolved Mn, Sulfate, Sulfide, Nitrate, Total Organic Carbon (TOC), Alkalinity, Chloride, Methane, Ethane, Ethene and CO2.

- All seven on-Site monitoring wells (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) were redeveloped by Coastal Environmental Solutions, Inc. under the supervision of S.E.T., PC personnel on January 31, 2025.
- Groundwater samples were collected from the seven on-Site monitoring wells (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) on February 18 and 19, 2025. The groundwater samples were analyzed for VOCs via EPA Method 8260C, SVOCs via EPA Method 8270, Pesticides via EPA Method 8081, PCBs via EPA Method 8082, TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010, 21 PFAS compounds via EPA Method 1633, and 1,4-Dioxane via EPA Method 8270 SIM as well as the groundwater treatment parameters including pH, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), Total Fe, Total Mn, Dissolved Fe, Dissolved Mn, Sulfate, Sulfide, Nitrate, Total Organic Carbon (TOC), Alkalinity, Chloride, Methane, Ethane, Ethene and CO2.

Appendix A provides a link to the Remedial Action Work Plan (RAWP), which includes a discussion of the RIR and SRIWP.

2.0 Pre-Design Groundwater Investigation Activities

S.E.T., PC, on behalf of 66 Gerry, LLC performed the following scope of work for the Pre-Design Groundwater Investigation (PDGI):

- The installation of two (2) additional monitoring wells (23MW-5 and 23MW-6) on the Lot 5 portion of the Site;
- The collection of four (4) soil samples from the locations of 23MW-5 and 23MW-6;
- The redevelopment of all seven on-Site monitoring wells (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6);
- The collection of groundwater samples from all seven on-Site monitoring wells (23MW-1 through 23MW-6).

Appendix B provides photographs of the fieldwork performed under the PDGI. Analytical methods for sample collection are further discussed in Section 2.1 – Groundwater Monitoring Well Installation, Section 2.2 – Soil Probe Installation and Sampling, Sections 2.3 and 2.5 –

Groundwater Sampling, Section 2.4 – Monitoring Well Redevelopment, and Section 2.7 – Sample Collection and Chemical Analysis.

2.1 Groundwater Monitoring Well Installation

On December 11, 2024, the NYSDEC requested via email that two more monitoring wells be installed on Lot 5 to collect two additional samples to confirm the existing groundwater conditions across the entire Site. Monitoring wells 23MW-5 and 23MW-6 were installed to approximately 16 ft-bgs on the Lot 5 portion of the Site with a track-mounted Geoprobe by Coastal Environmental Solutions, Inc. on December 27, 2024. Monitoring wells 23MW-5 and 23MW-6 were installed following the same procedures outlined in the January 2024 Remedial Investigation Plan (RIWP) and are screened from 6 to 16 feet below grade. The monitoring well locations are depicted in **Figure 2**. **Appendix C** provides the monitoring well construction logs for all monitoring wells installed by S.E.T., PC at the Site**.**

2.2 Soil Probe Installation and Sampling

During the installation of monitoring wells 23MW-5 and 23MW-6, the soil was screened with a photoionization detector (PID) at 2-foot intervals. No elevated levels of organic vapors were identified. No other olfactory or visual evidence of petroleum was identified. Brown and gray clay were identified in both sampling locations at the water table interface (approximately 10 to 12, 12 to 14, and 14 to 16 feet below grade). The soil throughout the Site mainly consists of brown, dark brown, and gray fine to medium-grained sand, clay, silt, and gravel. Asphalt, concrete, coal ash, bricks, and fill material were also identified in the soil samples. The soil probe logs for 23MW-5 and 23MW-6 are provided in **Appendix C**.

2.3 January 2025 Groundwater Sampling

The depth of groundwater was measured in each well before sampling. The depth to groundwater ranged from 9.34 ft bg in 23MW-1 to 10.67 ft bg in 23MW-6. Groundwater sampling logs are provided in **Appendix D**.

All seven on-site monitoring wells (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) were sampled in January 2025 in accordance with the May 22, 2024, approved SRIWP. Monitoring wells 23MW-1, 23MW-2, 23MW-4S, and 23MW-4D were sampled on January 7, 2025 and monitoring wells 23MW-3, 23MW-5, and 23MW-6 were sampled on January 8, 2025. Groundwater Sampling Procedures are included in **Appendix E.**

2.4 Monitoring Well Redevelopment

All seven on-site monitoring wells (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) were redeveloped by Coastal Environmental Solutions, Inc. under the supervision of S.E.T., PC personnel on January 31, 2025. Well redevelopment activities included cleaning the wells using low-flow rate pumping techniques, removing sediment using a purge pump and Geo Pump low-flow rate pump, and performing a surge block to enhance well performance. The depth to water post well development ranged from 9.34 feet in 23MW-1 to 11.19 feet in 23MW-6. The post well development results indicate that redevelopment efforts successfully removed sediment building in several wells, with notable improvements in depth of 23MW-4S, 23MW-1, and 23MW-2. Minor changes in some wells indicate that the wells were already near optimal conditions prior to cleaning efforts. Nephelometric Turbidity Unit (NTU) levels were observed to be at 50 or below following the well redevelopment indicating improved water clarity.

Depth to water and ORP and turbidity measurements were collected from all monitoring wells on February 3, 2025 following the redevelopment of the monitoring wells. The depth to groundwater was measured in each well prior to sampling. On February 3, 2025, the depth to groundwater ranged from 9.35-ft bg in 23MW-1 to 11.20-ft bg in 23MW-6, final turbidity levels ranged from 32.1 NTU in 23MW-5 to 59.7 NTU in 23MW-4D, and ORP measurements ranged from -20 mV in 23MW-4D to 98 mV in 23MW-3. The depth to water measurements collected on February 3, 2025 indicate stable groundwater levels across all monitoring wells with slight variations due to natural subsurface conditions. After well development, turbidity levels showed a general decline, indicating improved groundwater clarity. The turbidity measurements indicate that the well redevelopment process effectively removed the built-up fine sediments and improved the water quality in the monitoring wells.

The NYSDEC Project Manager expressed concern via email on February 6, 2025 regarding the identification of reductive conditions in one part of the Site (e.g., -20 in 23MW-4S & -18 mV in 23MW-4D) and oxidative conditions in the remainder of the Site (e.g. ORP ranging from 2 mV in 23MW-6 to 98 mV in 23MW-3). S.E.T., PC responded to the email on February 7, 2025 stating that the variations in the ORP detected are likely associated with groundwater recharging after being dewatered and may indicate that the groundwater is not recharging evenly. The ORP levels at the Site will most likely stabilize over time and S.E.T., PC offered to reassess the ORP measurements the following week if necessary. Charts indicating the ORP over time in each monitoring well are provided as **Figures 3A** and **3B**.

On February 7, 2025, the NYSDEC Project Manager approved collecting ORP levels for the following week and potentially sampling the monitoring wells depending on the ORP levels. Email correspondence with the NYSDEC is provided in **Appendix F**.

2.5 February 2025 Groundwater Sampling

S.E.T., PC mobilized to the Site on February 18 and 19, 2025 to assess the ORP levels and collect groundwater samples from the seven on-Site monitoring wells. The NYSDEC Project Manager was on-Site on February 18, 2025 to observe the groundwater sampling activities and verbally approved sampling based on the groundwater parameters measured on-Site. The depth to groundwater was measured in each well prior to sampling. The depth to groundwater ranged from 8.27-ft bg in 23MW-4D to 9.89-ft bg in 23MW-6, final turbidity levels ranged from 17.6 NTU in 23MW-4D to 43.4 NTU in 23MW-1, and final ORP measurements ranged from -22 mV in 23MW-1 to 77 mV in 23MW-5. Groundwater sampling logs are provided in **Appendix D**.

All seven on-Site monitoring wells (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) were sampled in February 2025 in accordance with the May 22, 2024 approved SRIWP. Monitoring wells 23MW-1, 23MW-3, 23MW-4S, 23MW-5, and 23MW-6 were sampled on February 18, 2025 and monitoring wells 23MW-1 and 23MW-4D were sampled on February 19, 2025. Groundwater Sampling Procedures are included in **Appendix E**.

2.6 Decontamination Procedures and Quality Assurance/Quality Control

Each piece of sampling or other down hole equipment was decontaminated prior to each use in order to ensure that cross-contamination between sampling locations did not occur. The following procedure was utilized in the decontamination process:

- Wipe clean and wash with Alconox®
- Potable water rinse
- Methanol rinse
- Deionized water rinse
- Air dry

All decontamination procedures were performed in an area segregated from any sampling areas. Any rinsate from the decontamination area was contained and removed from the Site.

All samples were properly handled and placed into the appropriately labeled containers. The samples were placed in a cooler filled with ice and maintained at a maximum of 4 degrees Celsius.

All samples were transmitted under proper chain of custody procedures to a State-certified (ELAP) laboratory for confirmatory laboratory analyses. All holding times were met. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control.

2.7 Sampling Collection and Chemical Analysis

2.7.1 Soil Sampling

All samples were properly handled and placed into pre-cleaned, appropriately labeled, laboratory-supplied containers. The samples were placed in a cooler filled with ice and maintained at a maximum of 4 degrees Celsius. All samples were transported under proper chain of custody procedures to a New York State Department of Health ELAP-certified laboratory for confirmatory laboratory analyses. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control.

Four soil samples (23MW-5 (10-12' and 14-16') and 23MW-6 (12-14' and 14-16')) were collected on December 27, 2024, and analyzed for VOCs via EPA Method 8260. Laboratory analytical results are provided in **Appendix H.**

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in **Tables 2A** through **2F**. **Figure 4** shows the location of soil samples collected in this investigation and **Figure 4** depicts the compounds above the RRSCOs and PGWSCOs.

2.7.2 Groundwater Sampling – January 2025

A total of seven groundwater samples (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) were collected and analyzed for VOCs via EPA Method 8260C, SVOCs via EPA Method 8270, Pesticides via EPA Method 8081, PCBs via EPA Method 8082, TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010, 21 PFAS compounds via EPA Method 1633, and 1,4-Dioxane via EPA Method 8270 SIM as well as the groundwater treatment parameters including pH, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), Total Fe, Total Mn, Dissolved Fe, Dissolved Mn, Sulfate, Sulfide, Nitrate, Total Organic Carbon (TOC), Alkalinity, Chloride, Methane, Ethane, Ethene and CO2. Additionally, one trip blank (TRIP BLANK) and four field blanks (FIELD BLANK, FIELD BLANK, PFAS FIELD BLANK, PFAS FIELD BLANK) were collected for analysis of VOCs and PFAS compounds. Laboratory analytical results are provided in **Appendix H**.

Due to the high turbidity levels identified in this round of sampling (ranging from 37.4 NTU in 23MW-3 to 1,000 NTU in 23MW-2), the NYSDEC Project Manager requested that the monitoring wells at the Site be redeveloped, and groundwater samples be re-collected

2.7.3 Groundwater Sampling – February 2025

A total of seven groundwater samples (23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) were collected and analyzed for VOCs via EPA Method 8260C, SVOCs via EPA Method 8270, Pesticides via EPA Method 8081, PCBs via EPA Method 8082, TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010, 21 PFAS compounds via EPA Method 1633, and 1,4-Dioxane via EPA Method 8270 SIM as well as the groundwater treatment parameters including pH, Dissolved Oxygen (DO), Oxidation Reduction Potential (ORP), Total Fe, Total Mn, Dissolved Fe, Dissolved Mn, Sulfate, Sulfide, Nitrate, Total Organic Carbon (TOC), Alkalinity, Chloride, Methane, Ethane, Ethene and CO2. Additionally, two trip blanks (TRIP BLANK and TRIP BLANK) and three field blanks (FIELD BLANK PFAS, FIELD BLANK, FIELD BLANK) were collected for analysis of VOCs and PFAS compounds. Laboratory analytical results are provided in **Appendix H**.

Groundwater sample collection data is reported in **Tables 2A** through **2F**. Sampling logs with information on purging and sampling of groundwater monitor wells are included in **Appendix D**. **Figure 2** shows the groundwater sampling locations and the detected concentrations and exceedances in groundwater are shown in **Figures 5A** and **5B** .

3.0 Environmental Evaluation

Hydrogeology

Depth to groundwater at the Site was identified as follows:

Monitoring Well	Depth to Water (ft)	
	January 2025	February 2025
23MW-1	9.34	8.27
23MW-2	9.51	8.99
23MW-3	9.88	8.74
23MW-4S	9.64	9.12
23MW-4D	9.62	8.61
23MW-5	11.62	9.48
23MW-6	10.67	9.89

Groundwater sampling logs are provided in **Appendix D** of this report.

3.1 Soil Chemistry

A total of four soil samples (23MW-5 (10-12’ and 14-16’) and 23MW-6 (12-14’ and 14-16’)) were submitted to the laboratory for analysis. **Table 1** provides the volatile organic compound (VOC) analytical results. The results in **Table 1** are provided in milligrams per kilogram (mg/kg). **Table 1** provides comparisons to the NYSDEC Part 375 Restricted Residential Use Soil Cleanup

Objective (RRSCO) and Protection of Groundwater Soil Cleanup Objective (PGWSCO) Standards.

As indicated in **Table 1**, tetrachloroethene (PCE: 4.2 mg/kg) was detected in soil sample 23MW-5 (10-12') at a concentration exceeding its NYSDEC PGWSCO and vinyl chloride (0.072 mg/kg) was detected in soil sample 23MW-5 (14-16') at a concentration exceeding its NYSDEC PGWSCO. No other VOCs were detected in any of the soil samples at concentrations exceeding their respective NYSDEC PGWSCO or NYSDEC RRSCO Standards.

Figure 4 provides a map of the soil sample detections above the NYSDEC PGWSCO Standards for samples collected from the Lot 5 portion of the Site.

3.2 Groundwater Sample Analytical Results

A total of 14 groundwater samples (two each from 23MW-1, 23MW-2, 23MW-3, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6) were submitted to the laboratory for analysis. **Table 2A** provides the volatile organic compound (VOC) laboratory analytical results, **Table 2B** provides the semi volatile organic compound (SVOC) laboratory analytical results, **Table 2C** provides the pesticide laboratory analytical results, **Table 2D** provides the PCB laboratory analytical results, **Table 2E** provides the metal laboratory analytical results, and **Table 2F** provides the PFAS laboratory analytical results. The results in **Tables 2A** through **2D** are provided in micrograms per liter (ug/L) and the results in **Table 2F** are provided in nanograms per liter (ng/l). **Tables 2A** through **2E** provide comparisons to the NYSDEC Technical and Operational Guidance Series (1.1.1) (TOGS) Ambient Water Quality Standards (AWQS) and **Table 2F** provides comparisons to the NYSDEC PFAS April 2023 Standards.

3.2.1 Pre-Monitoring Well Development Groundwater Analytical Results – January 2025

No pesticides (**Table 2C**) or PCBs (**Table 2D**) were detected in any of the groundwater samples at concentrations exceeding their respective AWQS.

As indicated in **Table 2A**, chlorinated VOCs (CVOCs) appear to be impacting the Site as evidenced by the analytical results of 23MW-1, 23MW-2, 23MW-4S, 23MW-4D, and 23MW-5. CVOCs including cis-1,2-dichloroethene (max. of 150 ug/l in 23MW-4S; TOGS is 5 ug/l), tetrachloroethene (max. of 150 ug/l in 23MW-2; TOGS is 5 ug/l), trichloroethene (max. of 19 ug/l in 23MW-2; TOGS is 5 ug/l), and vinyl chloride (max. of 160 ug/l in 23MW-4S; TOGS is 2 ug/l) were detected at concentrations exceeding their respective AWQS. Additionally, the petroleum-related VOC benzene was detected in 23MW-2 (1.8 ug/l) at a concentration exceeding its AWQS of 1 ug/l.

As indicated in **Table 2B**, several SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs) were detected above their respective AWQS of 0.002 ug/l in groundwater samples 23MW-2 through 23MW-6, including benzo(a)anthracene at a max. of 2.5 ug/l in 23MW-6, benzo(b)fluoranthene at a max. of 2 ug/l in 23MW-5 and 23MW-6, benzo(k)fluoranthene at a max. of 1.9 ug/l in 23MW-6, chrysene at a max. of 2.5 ug/l in 23MW-6, and indeno(1,2,3-cd)pyrene at a max. of 1.7 ug/l in 23MW-5. Additionally, 1,4-dioxane was detected at concentrations exceeding its AWQS of 0.35 ug/l in 23MW1, 23MW-2, and 23MW-6 at a max. of 20 ug/l in 23MW-1.

As indicated in **Table 2E**, several undissolved and dissolved metals were detected at concentrations exceeding their respective AWQS.

The dissolved metal sodium (max. of 664,000 ug/l in 23MW-4D) was detected in all groundwater samples at concentrations exceeding the AWQS of 20,000 ug/l. The dissolved metal manganese (max. of 2,460 ug/l in 23MW-4S) was detected in groundwater samples 23MW-1, 23MW-2, 23MW-4S, 23MW-4D, 23MW-5, and 23MW-6 at concentrations exceeding the AWQS of 300 ug/l. The dissolved metal selenium (max. of 105 ug/l in 23MW-5) was detected in groundwater samples 23MW-3 and 23MW-5 at concentrations exceeding the AWQS of 10 ug/l. The dissolved metal magnesium (max. of 110,000 ug/l in 23MW-4D) was detected in groundwater samples 23MW-4D and 23MW-5 at concentrations exceeding its AWQS of 35,000 ug/l. Additionally, chloride was detected in 23MW-2 (309,000 ug/l) at a concentration exceeding its AWQS of 250,000 ug/l and sulfate was detected in groundwater samples 23MW-3, 23MW-4S, 23MW-4D, and 23MW-5 at a max. of 1,250,000 ug/l, exceeding its AWQS of 250,000 ug/l.

The undissolved metals aluminum (max. of 359,000 ug/l in 23MW-4D; AWQS is 100 ug/l), iron (max. of 18 1,010,000 ug/l in 23MW-4D; AWQS is 300 ug/l), and sodium (max. of 18 835,000 ug/l in 23MW-4D; TOGS is 20,000 ug/l) were detected in all groundwater samples at concentrations exceeding their respective AWQS. The undissolved metals arsenic (max. of 146 ug/l in 23MW-4D; AWQS is 25 ug/l), beryllium (max. of 18 ug/l in 23MW-4D; AWQS is 3 ug/l), chromium (max. of 901 ug/l in 23MW-4D; AWQS is 20 ug/l), copper (max. of 882 ug/l in 23MW-4D; AWQS is 200 ug/l), mercury (max. of 11.2 ug/l in 23MW-4D; AWQS is 0.70 ug/l), nickel (max. of 776 ug/l in 23MW-4D; AWQS is 100 ug/l), and thallium (max. of 4.1 ug/l in 23MW-4D; AWQS is 0.50 ug/l) were detected in groundwater samples 23MW-2 and 23MW-4D at concentrations exceeding their respective AWQS. The undissolved metal manganese (AWQS is 300 ug/l) was detected in 23MW-1 (1,500 ug/l) at a concentration exceeding its AWQS. The undissolved metals lead (457 ug/l; AWQS is 25 ug/l), magnesium (59,200 ug/l; AWQS is 35,000 ug/l), and manganese (4,630 ug/l; AWQS is 300 ug/l) were detected in groundwater sample 23MW-2 at concentrations exceeding their respective AWQS. Antimony (8 ug/l; AWQS is 3 ug/l) and selenium (26 ug/l; AWQS is 10 ug/l) were detected in groundwater sample 23MW-3 at

concentrations exceeding their respective AWQS. Lead (max. of 164 ug/l in 23MW-4S; AWQS is 25 ug/l) and manganese (max. of 2,940 ug/l in 23MW-4S; AWQS is 300 ug/l) were detected in groundwater samples 23MW-4S and 23MW-5 at concentrations exceeding their respective AWQS. The undissolved metals antimony (21 ug/l; AWQS is 3 ug/l), barium (3,520 ug/l; AWQS is 1,000 ug/l), cadmium (14 ug/l; AWQS is 5 ug/l), lead (1,410 ug/l; AWQS is 25 ug/l), magnesium (344,000 ug/l; AWQS is 35,000 ug/l), and manganese (15,800 ug/l; AWQS is 300 ug/l) were detected at concentrations exceeding their respective AWQS in 23MW-4D. The undissolved metals lead (399 ug/l; AWQS is 25 ug/l), magnesium (54,200 ug/l; AWQS is 35,000 ug/l), manganese (980 ug/l; AWQS is 300 ug/l), and selenium (94 ug/l; AWQS is 10 ug/l) were detected at concentrations exceeding their respective AWQS in 23MW-6.

As indicated in **Table 2F**, the PFAS compound PFOS (max. of 19.3 ng/l in 23MW-2) was detected in groundwater samples 23MW-2, 23MW-3, 23MW-5, and 23MW-6 at concentrations exceeding its standard of 2.7 ng/l. The compound PFOA (max. of 41.8 ng/l in 23MW-6) was detected in all groundwater samples at concentrations exceeding its standard of 6.7 ng/l.

Figures 5A and **5B** provide maps of the groundwater sample detections above the AWQS

3.2.2 Post Monitoring Well Development Groundwater Analytical Results – February 2025

No pesticides (**Table 2C**) or PCBs (**Table 2D**) were detected in any of the groundwater samples at concentrations exceeding their respective AWQS.

As indicated in **Table 2A**, chlorinated VOCs (CVOCs) appear to be impacting the Site as evidenced by the analytical results of 23MW-1, 23MW-2, 23MW-4S, 23MW-4D, and 23MW-5. CVOCs including 1,1,-dichloroethane (8.6 ug/l in 23MW-1; AWQS is 5 ug/l), cis-1,2-dichloroethene (max. of 90 ug/l in 23MW-4D; AWQS is 5 ug/l), tetrachloroethene (max. of 11 ug/l in 23MW-1; AWQS is 5 ug/l), trichloroethene (max. of 7.8 ug/l in 23MW-4D; AWQS is 5 ug/l), and vinyl chloride (max. of 200 ug/l in 23MW-4S; AWQS is 2 ug/l) were detected at concentrations exceeding their respective AWQS. No VOCs were detected at concentrations exceeding their respective AWQS in groundwater samples 23MW-3 or 23MW-6.

As indicated in **Table 2B**, several SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs) were detected above their respective AWQS of 0.002 ug/l in groundwater samples 23MW-5 and 23MW-6, including benzo(a)anthracene (max. of 0.09 ug/l in 23MW-5), benzo(b)fluoranthene (max. of 0.09 ug/l in 23MW-5), benzo(k)fluoranthene (max. of 0.08 ug/l in 23MW-5), chrysene (max. of 0.09 ug/l in 23MW-5), and indeno(1,2,3-cd)pyrene (max. of 0.09 ug/l in 23MW-5). The SVOC phenol was detected in groundwater samples 23MW-3 (1.1 ug/l) and 23MW-5 (1.7 ug/l) at concentrations exceeding its AWQS of 1 ug/l. Additionally, 1,4-dioxane was

detected at concentrations exceeding its AWQS of 0.35 ug/l in 23MW1, 23MW-2, 23MW-4S, and 23MW-6 at a max. of 34 ug/l in 23MW-1.

As indicated in **Table 2E**, several undissolved and dissolved metals were detected at concentrations exceeding their respective AWQS.

The dissolved metal sodium (max. of 226,000,000 ug/l in 23MW-4D) was detected in all groundwater samples at concentrations exceeding the AWQS of 20,000 ug/l. The dissolved metal manganese (max. of 2,060 ug/l in 23MW-6l) was detected in groundwater samples 23MW-1, 23MW-2, 23MW-4S, 23MW-4D, and 23,W-6 at concentrations exceeding the AWQS of 300 ug/l. The dissolved metal magnesium (max. of 56,300ug/l in 23MW-4D) was detected in groundwater samples 23MW-4D and 23MW-5 at concentrations exceeding the AWQS of 35,000 ug/l. The dissolved metal antimony (3.3 ug/l) was detected in groundwater samples 23MW-5 at a concentration exceeding its AWQS of 3 ug/l. Additionally, sulfate (max. of 984,000 ug/l in 23MW-5) was detected at concentrations exceeding its AWQS of 250,000 ug/l in groundwater samples 23MW-3, 23MW-4D, 23MW-5, and 23MW-6.

The undissolved metal sodium (max. of 231,000 ug/l in 23MW-4D; AWQS is 20,000 ug/l) was detected in all groundwater samples at concentrations exceeding its AWQS. The undissolved metals iron (max. of 15,700 ug/l in 23MW-4S; AWQS is 300 ug/) and manganese (max. of 2,060 ug/l in 23MW-6; AWQS is 300 ug/l) were detected in groundwater samples 23MW-1, 23MW-2, 23MW-4S, 23MW-4D, and 23MW-6 at concentrations exceeding their respective AWQS. The undissolved metals antimony (max. of 5.9 ug/l in 23MW-3; AWQS is 3 ug/l) and selenium (max. of 215 ug/l in 23MW-5; AWQS is 10 ug/l) were detected in groundwater samples 23MW-3 and 23MW-5 at concentrations exceeding their respective AWQS. The undissolved metal magnesium (max. of 58,000 ug/l in 23MW-4D, AWQS is 35,000 ug/l) was detected in groundwater samples 23MW-4D and 23MW-5 at concentrations exceeding its AWQS. The undissolved metal aluminum (126 ug/l) was detected in 23MW-5 at a concentration exceeding its AWQS of 100 ug/l.

As indicated in **Table 2F**, the PFAS compound PFOS (max. of 51.2 ng/l in 23MW-2) was detected in all groundwater samples at concentrations exceeding its standard of 2.7 ng/l. The compound PFOA was detected at a concentration exceeding its standard of 6.7 ng/l in the groundwater sample collected from 23MW-4D (4.25 ng/l).

Figures 5A and **5B** provide maps of the groundwater sample detections above the AWQS

3.2.3 Groundwater Discussion

Tables 2A through 2**F** summarize the historical and current groundwater sampling results.

No pesticides (**Table 2C**) or PCB (**Table 2D**) compounds were detected in any groundwater samples in any sampling event.

As indicated in **Table 2A**, total VOCs significantly decreased from February 2024 to February 2025 in monitoring wells 23MW-1 (February 2024: 63.92 ug/l; February 2025: 38.01 ug/l), 23MW-3 (February 2024: 10.93 ug/l; February 2025: 0.95 ug/l), and 23MW-4D (February 2024: 236.06 ug/l; February 2025: 161.69 ug/l).

However, total VOCs increased from February 2024 to February 2025 in monitoring wells 23MW-2 (February 2024: 6.36 ug/l; February 2025: 21.6 ug/l) and 23MW-4S (February 2024: 142.74 ug/l; February 2025: 287.11 ug/l).

Additionally, total VOCs decreased from January 2025 to February 2025 in monitoring well 23MW-5 (January 2025: 132 ug/l; February 2025: 26.53 ug/l) and increased during this time in monitoring well 23MW-6 (January 2025: 0 ug/l; February 2025: 4.74 ug/l).

As indicated in **Table 2B**, total SVOCs significantly decreased from February 2024 to February 2025 in monitoring wells 23MW-1, 23MW-2, 23MW-3, 23MW-4S, and 23MW-4D and total SVOCs significantly decreased from January 2025 to February 2025 in monitoring wells 23MW-5 and 23MW-6.

As indicated in **Table 2E**, concentrations of dissolved and undissolved metals significantly decreased from February 2024 to February 2025 in monitoring wells 23MW-1, 23MW-2, 23MW-3, 23MW-4S, and 23MW-4D. Undissolved metals significantly increased from January 2025 to February 2025 in monitoring well 23MW-5 and decreased in monitoring well 23MW-6 during this time period. Dissolved metals significantly increased from January 2025 to February 2025 in monitoring well 23MW-6 and decreased in monitoring well 23MW-5 during this time period.

As indicated in **Table 2F**, concentrations of the PFAS compound PFOS appear to have decreased from February 2024 to February 2025 in monitoring wells 23MW-1 and 23MW-3 and decreased from January 2025 to February 2025 in monitoring wells 23MW-5 and 23MW-6. However, PFOA concentrations appear to have increased from February 2024 to February 2025 in monitoring well 23MW-4D. Concentrations of the PFAS compound PFOA appear to have decreased from February 2024 to February 2025 in monitoring wells 23MW-1 and 23MW-3. However, PFOA concentrations appear to have increased from February 2024 to February 2025 in monitoring wells 23MW-2, 23MW-4S, and 23MW-4D and have increased from January 2025 to February 2025 in monitoring wells 23MW-5 and 23MW-6.

4.0 Conclusions

Chlorinated volatile organic compounds (CVOCs) were detected in the 10-to-12-foot (tetrachloroethylene (PCE): 4,200 ug/kg) and 14-to-16-foot (vinyl chloride: 72 ug/kg) samples collected from 23MW-5 (located within the Hotspot A boundary) at concentrations exceeding their respective PGWSCOs but less than their respective RRSCOs. No VOCs were detected at concentrations greater than their respective PGWSCOs or RRSCOs in the soil samples collected from 23MW-6 (12-14' and 14-16').

Furthermore, CVOC-impacted groundwater is present within the boundary of Hotspot A, as evidenced by the analytical results of 23MW-1, 23MW-2, 23MW-4S, 23MW-4D, and 23MW-5. Elevated concentrations of CVOCs were not detected in the groundwater samples collected from monitoring wells 23MW-3 and 23MW-6 located outside of the Hotspot A boundary. As discussed in the Remedial Action Work Plan (RAWP), in-situ bio-remedial + chemical (ISBR + C) injections will be performed to remediate the CVOC impacted soil and groundwater within Hotspot A from the observed water table (approximately 8-10 feet below grade) to 32 feet below grade prior to the performance of the Site excavation activities and soil mixing of the top two feet of soil will be conducted throughout the Hotspot A area following excavation to ensure the ISBR + C injection substrate was not removed from the soil during dewatering activities. Further information regarding the performance of the ISBR + C injections and soil mixing is provided below. **Figure 6** provides the current ISBR + chemical injection plan.

5.0 In-Situ Bioremediation and Chemical Injections

The ISBR + C injections will be performed over Hotspot A, covering an 85-foot by 50-foot area from the top of the observed water table (approximately 8 – 10 feet below grade) to 32 feet below grade to remediate the CVOCs in the saturated soil and groundwater. The February 20, 2025 proposal from Regenesis includes the application of 3-D Microemulsion® (3DMe), SMicroZVI® (S-MZVI), and Bio-Dechlor Inoculum® Plus (BDI Plus) to be applied to in three rows of direct push injection points perpendicular to the flow of groundwater as well as the application of the same reagents via soil mixing roughly six to eight weeks following the performance of the injections. The treatment strategy proposed by Regenesis is designed to achieve the NYSDEC UUSCO/PGWSCO Standards in the saturated soils from 10 to 32 feet bgs. This treatment strategy was designed to remediate soil exceeding PGWSCOs below the excavation depth to 32 feet in Hotspot A. The performance of the ISBR + C injections and soil mixing are further discussed in the sections below. The ISBR + C injection design from Regenesis is included in **Appendix G**.

5.1 Performance of ISBR + C Injections in Hotspot A

The proposed solution for the ISBR + C injection will be an application of 3-D Microemulsion® (3DMe), SMicroZVI® (S-MZVI), and Bio-Dechlor Inoculum® Plus (BDI Plus) in three rows of injection points to remediate the CVOC impacted saturated soil and groundwater in Hotspot A. The three injection rows extend northwest to southeast throughout Hotspot A. The rationale behind the injection points is that 3DMe will migrate with the groundwater resulting in zero-valent iron (ZVI) barriers throughout the Site as the groundwater migrates towards the northeast. The model prepared by Regenesis anticipates an approximately 5.8-foot radius of influence, ensuring adequate overlap between injection points. **Figure 6** provides a map of the ISBR + C injection plan.

The ISBR + C injections will be performed as follows:

1. The ISBR + C injections will be performed throughout the Hotspot A area from approximately 10 to 32 feet below grade through a total of 18 injection points using direct push technology prior to excavation and dewatering activities. The injections will utilize 5,200 pounds of 3-D Microemulsion, 3,500-pounds of S-MicroZVI, and 51 liters of BDI for a total injection volume of 16,346-gallons. The three rows of injections will be spaced approximately 30 feet apart with injection points positioned 8-feet apart, perpendicular to the flow of groundwater;
2. Groundwater samples will be collected weekly to monitor the performance of the ISBR + C injections (Section 5.3). Groundwater samples will be provided to the NYSDEC and Regenesis on a weekly basis to determine the efficacy of the ISBR + C injections;
3. Endpoint samples will be collected from the remedial excavation depths (13 to 18 feet below grade) as the excavation of the Site is completed. Endpoint sample analytical results will be provided to the NYSDEC and Regenesis to determine if the quantities of the materials to be used during the soil mixing application need to be revised;
4. The soil mixing will be conducted at the top two feet of the excavation throughout the Hotspot A area following the collection of the remedial endpoint samples and before the installation of the new building foundation. The performance of soil mixing is further discussed in Section 5.4.

S.E.T., PC provided the February 2025 groundwater VOC analytical results and monitoring well logs to Regenesis on March 12, 2025. Mr. Tyler Harris of Regenesis indicated stated that the ORP conditions at the Site appear to be continuing to slowly return to reduced conditions. Mr. Harris further stated that the results of the February 2025 sampling appeared to fit well within the expected fluctuations for the dosing provided in their February 20, 2025 proposal. Emails from

Regenesis personnel are provided in **Appendix F**. The ISBR + C injection design from Regenesis is included in **Appendix G**.

5.2 Dewatering Activities

During the building construction, the groundwater will be managed with a localized dewatering system, consisting of a series of 36" sumps fitted with pumps placed below the bottom of the excavation. The water will be lowered to 13 feet below grade beneath the foundation, 15 feet below the elevator pits, and 18 feet below grade below the ritual bath area.

The dewatering will continue until the building is two stories above grade (approximately four months from the start of excavation). Upon completion of the dewatering activities, the remaining sumps present beneath the slab will be removed, and the slab penetrations repaired following the manufacturer's recommendation for material and workmanship.

Stormwater that collects on the Site will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Liquids discharged into the New York City sewer system will be addressed through approval by NYCDEP.

On February 19, 2025, a Webex meeting with the NYSDEC, S.E.T., PC personnel, and personnel from Regenesis was held to discuss the potential impact of dewatering activities at the Site on the efficacy of the ISBR + C injection treatment.

Mr. Tyler Harris of Regenesis provided the following information regarding the proposed ISBR + C injection solution relative to the performance of dewatering activities.

- The effects of the ISBR + C injection solution will start immediately and as excavation at the Site is expected to be completed over an approximately six-to-eight-week time period, reductions in CVOC concentrations should be detectable within this time;
- While it is possible that the removal of standing water during dewatering activities would remove some injectate, it would not remove large quantities. Despite being a colloidal iron, S-MZVI is not significantly mobile in the groundwater without moderate pressures. Removing standing groundwater from an excavation will not likely provide sufficient negative pressure to remove significant quantities of S-MZVI. 3DMe, which is emulsified for easy spread in the aquifer and metabolized into even easier dispersed compounds, would likely be removed at a greater level. Still, with the vertical interval change to apply from 13-32 ft, allowing for a foot of vertical spacing between the dewatering and the injection area, this loss is expected to be minimal.

- Potential changes to site conditions during dewatering and excavation activities may include the introduction of oxygen. The S-MZVI can easily handle a small introduction, but a larger influx may oxidize a large quantity of S-MZVI. This more oxidized state could be handled by more 3DMe, which would be consumed microbially and turn the environment anoxic again, increasing our dose of S-MZVI to account for some loss resulting from toxic conditions or some other cheap oxygen scavenger;

- Since the proposed dewatering system at the Site will utilize a localized dewatering system consisting of a series of sumps fitted with pumps below the bottom of the excavation, significant negative pressure is not expected to be applied to completely remove the 3DMe or S-MZVI from the subsurface of the Hotspot A area. Therefore, there is minimal risk of removing the ISBR + C substrate during dewatering activities at the Site. (A discussion of the dewatering system is provided in Section 5.2);

- Regenesis recommended monthly groundwater testing be completed in the first two months following the application of the injections and quarterly monitoring after that time.

5.3 Groundwater Sampling During Excavation Activities

The impact of the ISBR + C Injections on the groundwater will be monitored during excavation activities. Starting four weeks after the injections, groundwater samples will be collected from monitoring wells 23MW-1, 23MW-3, 23MW-4S, 23MW-4D, and 23MW-5 on a weekly basis during the performance of excavation. In the event that the monitoring wells are destroyed during excavation activities, temporary monitoring wells will be installed as needed in the locations of 23MW-1, 23MW-3, 23MW-4S, 23MW-4D, and 23MW-5. The temporary monitoring wells will be installed with a Geoprobe using direct push technology in accordance with the March 2025 RAWP**.** Groundwater samples collected during the performance of excavation activities will be analyzed for TCL VOCs via EPA Method 8260, Total and dissolved Fe, Total and dissolved MN, Sulfate, Sulfide, Nitrate, TOC, Alkalinity, Chloride, Methane, Ethane, Ethene, and CO_2. These results will be provided to the NYSDEC and Regenesis as they are received. The VOC analytical results will be presented in NYSDEC ASP Category B deliverable format, and a Data Usability Summary Report (DUSR) will be provided upon receipt.

The groundwater sample analytical results will be provided to the NYSDEC and Regenesis prior to the performance of soil mixing in the remedial excavation to determine if any modifications are required to the soil mixing application design. The performance of soil mixing at the Site is further discussed below.

Emails from Regenesis personnel are provided in **Appendix F**.

5.4 Soil Mixing Application in Hotspot A

In order to supplement the ISBR + C products that may be removed during dewatering activities, S.E.T., PC proposed the performance of soil mixing at the top two feet of the excavation throughout Hotspot A. The soil mixing will be conducted following the collection of the remedial endpoint samples and before the installation of the new building foundation.

Regenesis has indicated that mixing soil with 3DMe and S-MZVI will help deoxygenate the environment to mitigate the oxygenation that may occur during excavation and dewatering activities. Regenesis also recommended using a higher dose of S-MZVI for soil mixing at the base of the remedial excavation where oxygen will be introduced.

The majority of the remedial excavation in Hotspot A will be performed to approximately 13 feet below grade for the building foundation with the exception of three areas which will be excavated to approximately 15 feet below grade for the construction of one elevator pit and to 18 feet below grade for the construction of two mikvehs (ritual baths). Soil mixing will be performed from approximately 12 to 14 feet across Hotspot A in areas where excavation extends to 13 feet below grade, from approximately 14 to 16 feet in areas where excavation extends to 15 feet below grade, and from 17 to 19 feet in areas where excavation extends to 18 feet below grade and will include the application of 800 pounds of 3-D Microemulsion and 1,000-pounds of S-MicroZVI for a total volume of 4,860-gallons. **Figure 7** highlights the soil mixing area and remedial excavation depths. The proposal from Regenesis is included in **Appendix G**.

S.E.T., PC provided the February 2025 groundwater VOC analytical results and monitoring well logs to Regenesis on March 12, 2025. Mr. Tyler Harris of Regenesis indicated stated that the ORP conditions at the Site appear to be continuing to slowly return to reduced conditions. Mr. Harris further stated that the results of the February 2025 sampling appeared to fit well within the expected fluctuations for the dosing provided in their February 20, 2025 proposal. The quantities proposed by Regenesis in the February 2025 proposal may be updated based on the results of the groundwater samples collected during excavation activities and/or the results of the remedial endpoint samples. Emails from Regenesis personnel are provided in **Appendix F**. The proposal from Regenesis is included in **Appendix G**.

Soil mixing will be performed as follows:

1. Materials will not be applied until soils are removed down to the top of the treatment areas (13 feet below grade surface for the building foundation, 15 feet below grade surface for the elevator pit, and 18 feet below grade surface for the mikvehs);

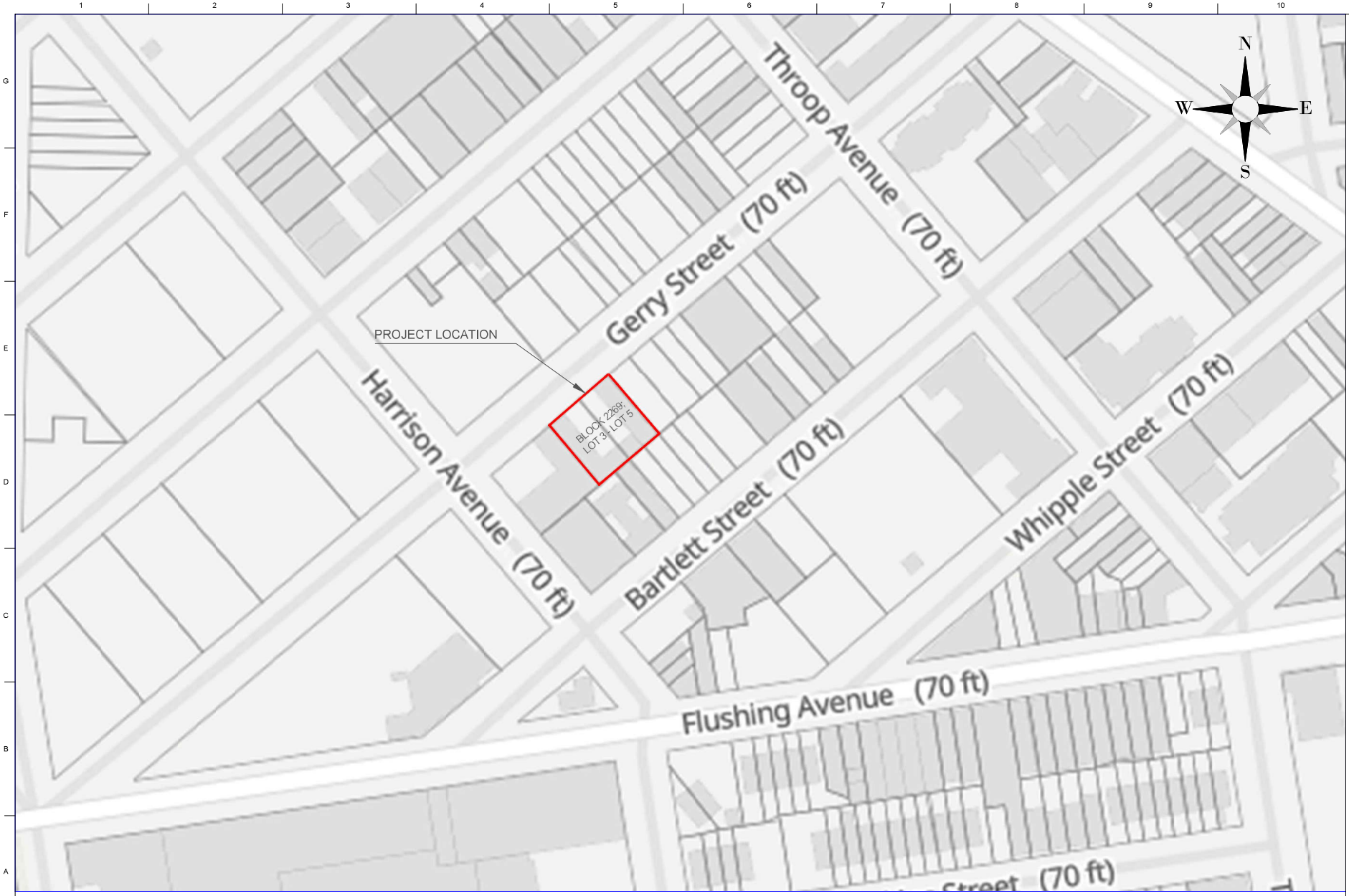
2. The materials will be applied in one of the two manners, depending upon the amount of groundwater present in the excavation:
    a. The 3DMe and S-MZVI will be mixed together in approximately 200-gallons of water to help ensure they spread evenly and equally. The 3DMe and S-MZVI mixture will be sprayed fairly evenly across the area; OR
    b. The 3DMe and S-MZVI will be applied to the surface of the area separately without mixing or adding water. This can make it harder to distribute the materials evenly since the separate undiluted liquids won't be able to be spread evenly, but this method helps minimize any water.
3. Following the application of the materials, a backhoe, soil shredder, or similar equipment will be used to mix the soil over the two-foot vertical area and to break up clumps of soil. Based on the remedial excavation depths, soil mixing will be performed from 12 to 14 feet below grade surface in the area excavated to 13 feet below grade, from 14 to 16 feet below grade in the areas excavated to 15 feet below grade, and from 17 to 19 feet below grade in areas excavated to 18 feet below grade.
4. Clumps of soil will be broken up

Once soil mixing activities have been completed, a one-foot recycled concrete aggregate (RCA) gravel layer will be placed across the entire Site excavation and a 30-inch concrete foundation slab will be constructed to prevent human exposure to residual contaminated soil/fill remaining under the Site. Additionally, as part of foundation construction, a vapor barrier (Stego Wrap Vapor Barrier) will be installed as a green remediation preventative measure and to meet the 2020 Energy Conservation Construction Code of New York.

5.5 Post Injection Groundwater Monitoring

Following the groundwater treatment injection, Site excavation activities, and soil mixing, five sets of nested shallow and deep new monitoring wells (10 total) will be installed on the sidewalk along Gerry Street. The monitoring wells will be designated 25MW-1S, 25MW-1D, 25MW-2S, 25MW-2D, 25MW-3S, 25MW-3D, 25MW-4S, 25MW-4D, 25MW-5S, and 25MW-5D in accordance with the February 2025 RAWP.

The locations of the proposed downgradient monitoring wells are provided in **Figure 8**.



Structural Engineering Technologies, P.C.

MARK	DESCRIPTION	DATE

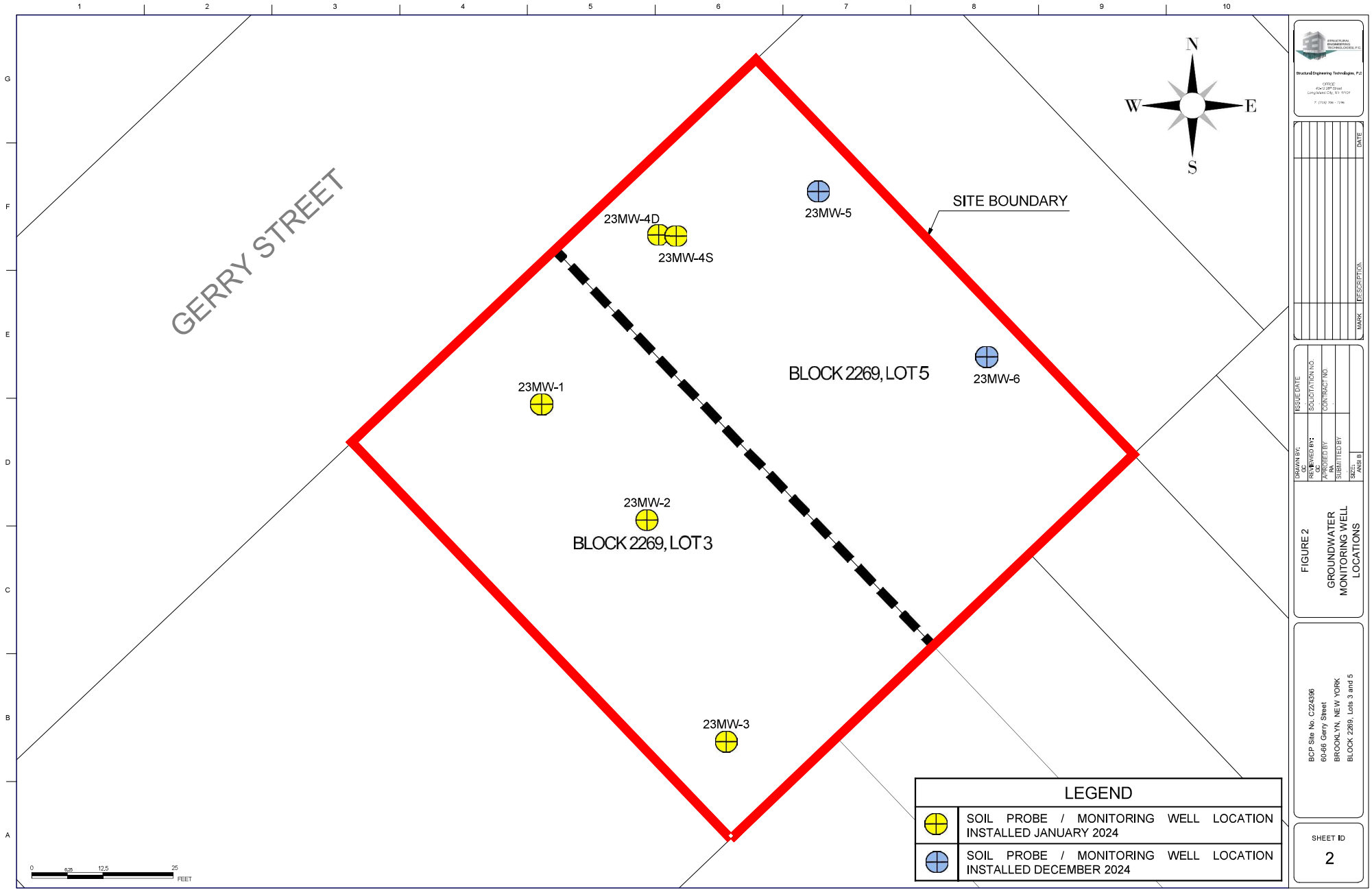
DRAWN BY: GC
REVIEWED BY: CEC
APPROVED BY: RK
SUBMITTED BY:
SIZE: ANSI B

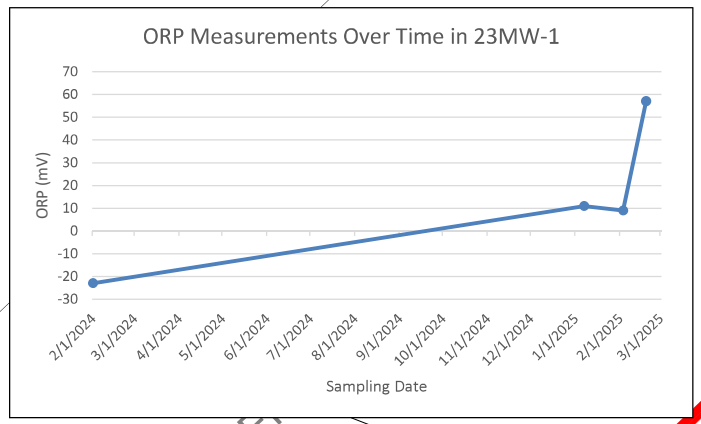
ISSUE DATE
SOLICITATION NO.
CONTRACT NO.

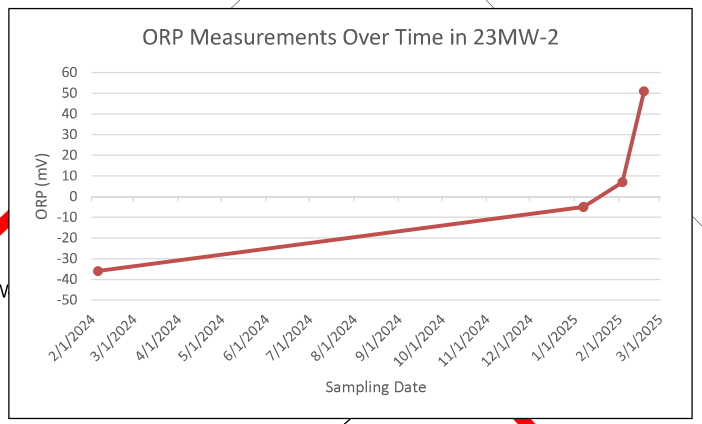
FIGURE 1
SITE LOCATION MAP

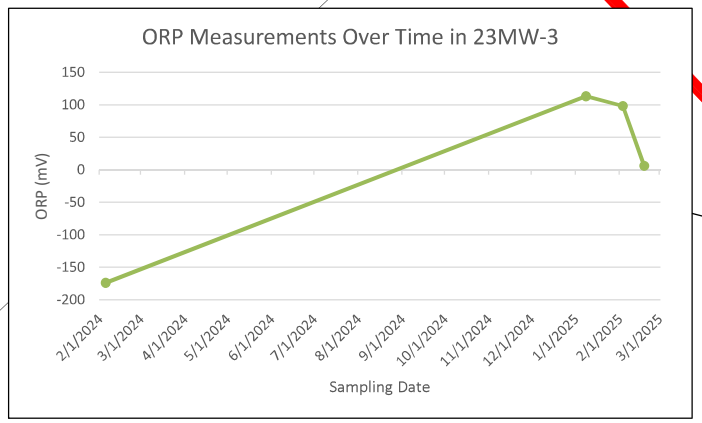
BCP Site No. C224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5

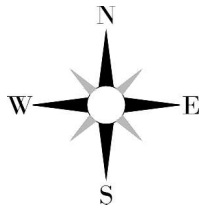
SHEET ID
1


GERRY STREET
SITE BOUNDARY
23MW-4D
23MW-4S
23MW-5
23MW-6
23MW-1
23MW-2
23MW-3
BLOCK 2269, LOT 5
BLOCK 2269, LOT 3
N
W
E
S
0
6.25
12.5
25
FEET
LEGEND
SOIL PROBE / MONITORING WELL LOCATION INSTALLED JANUARY 2024
SOIL PROBE / MONITORING WELL LOCATION INSTALLED DECEMBER 2024
Structural Engineering Technologies, P.C.
MARK
DESCRIPTION
DATE
DRAWN BY:
REVIEWED BY:
APPROVED BY
SUBMITTED BY
SIZE:
ANSI B
ISSUE DATE
SOLICITATION NO.
CONTRACT NO.
FIGURE 2
GROUNDWATER MONITORING WELL LOCATIONS
BCP Site No. C224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5
SHEET ID
2









23MW-1

23MW-2

23MW-3

23MW-6

BLOCK 2269, LOT 5

BLOCK 2269, LOT 3

LEGEND	
⊕	SOIL PROBE / MONITORING WELL LOCATION INSTALLED JANUARY 2024
⊕	SOIL PROBE / MONITORING WELL LOCATION INSTALLED DECEMBER 2024

0 6.25 12.5 25 FEET

Structural Engineering Technologies, P.C.

MARK	DESCRIPTION	DATE

DRAWN BY: CC
REVIEWED BY: CEC
APPROVED BY: RK
SUBMITTED BY:
SIZE: ANSI B

ISSUE DATE
SOLICITATION NO.
CONTRACT NO.

FIGURE 3A
ORP MEASUREMENTS OVER TIME ON LOT 3

BCP Site No. C224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5

SHEET ID
3A

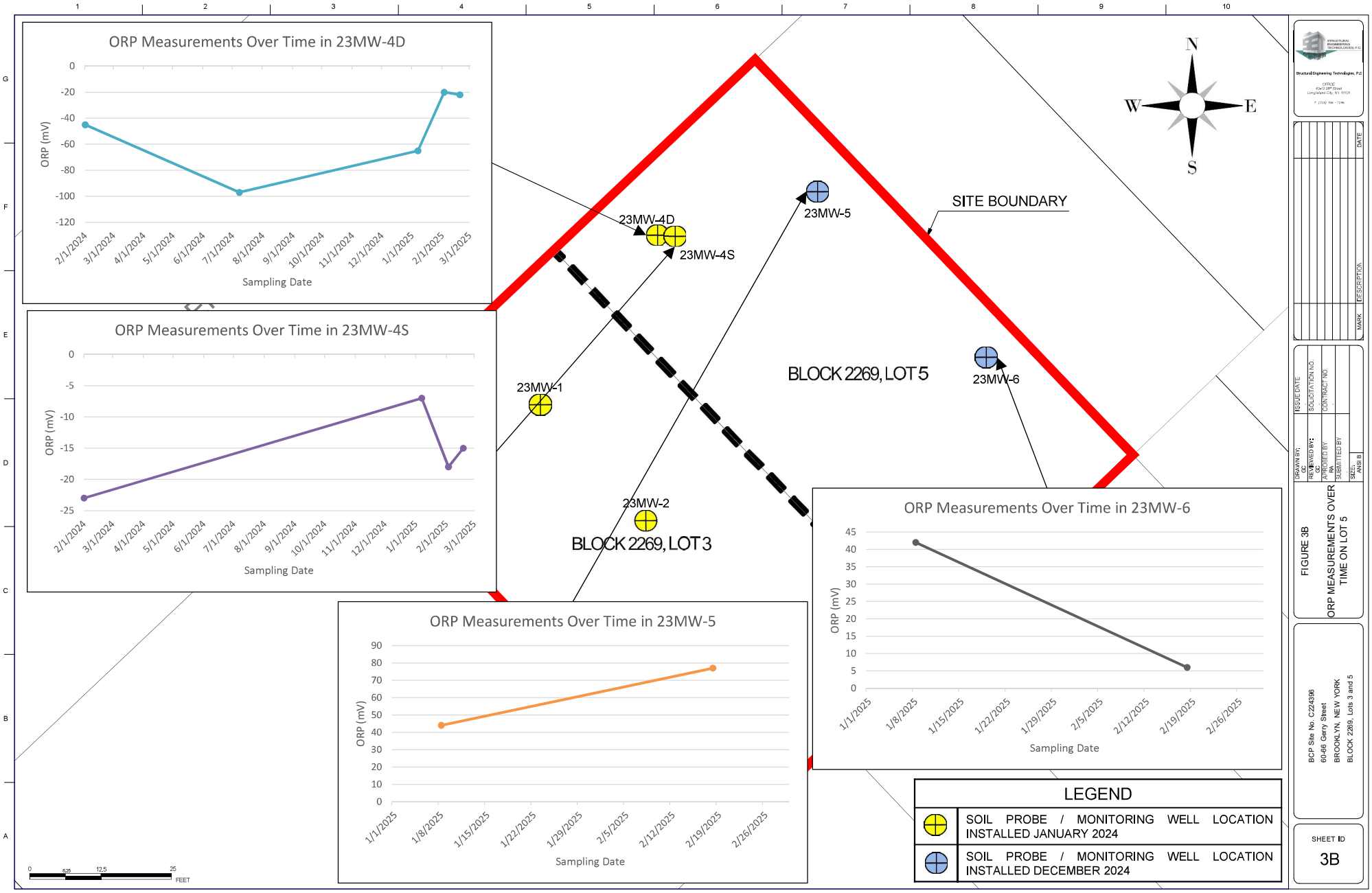
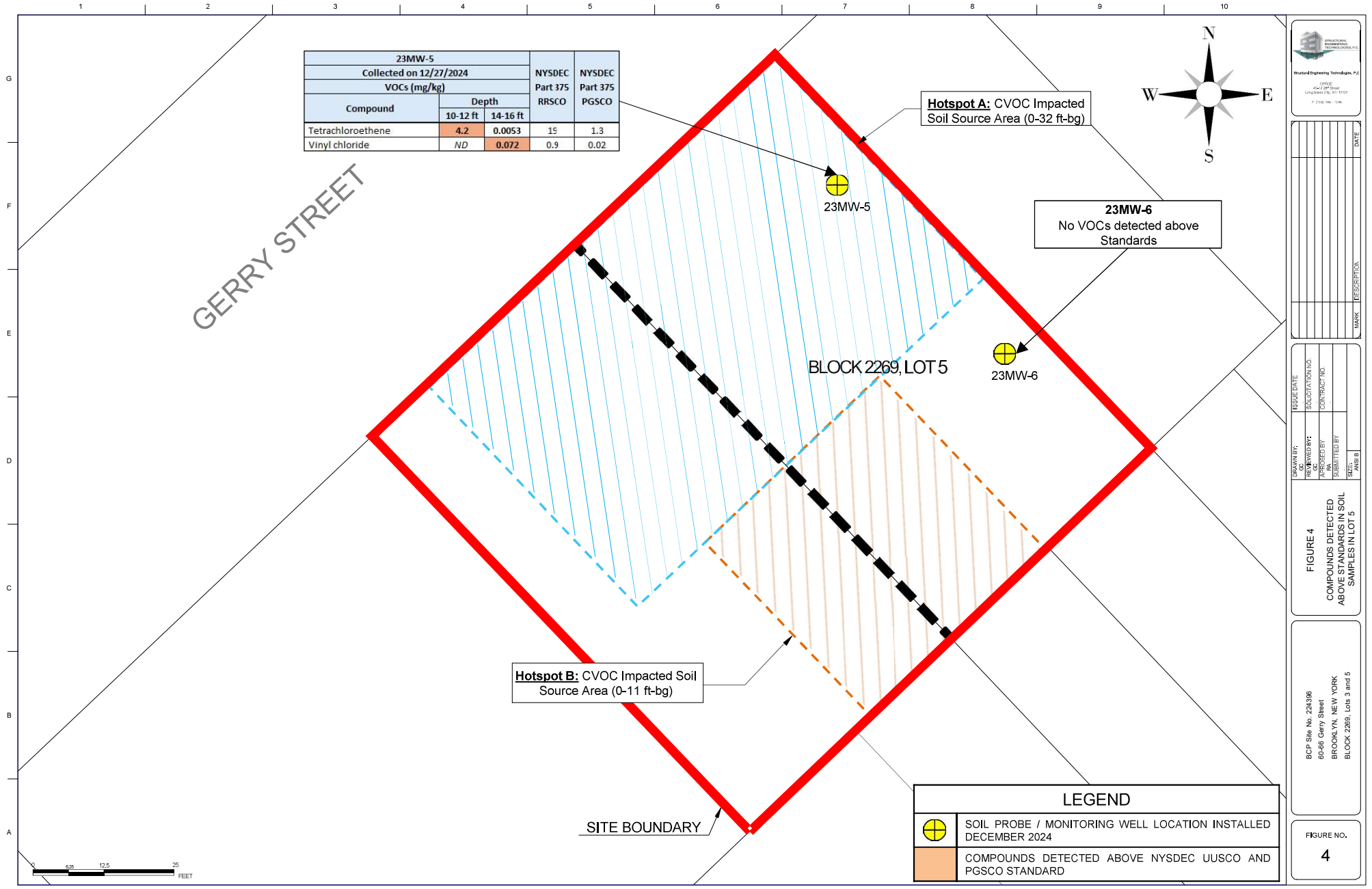


FIGURE 3B
ORP MEASUREMENTS OVER TIME ON LOT 5

BCP Site No. C224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5

SHEET ID
3B



23MW-5 Collected on 12/27/2024 VOCs (mg/kg)			NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth 10-12 ft	Depth 14-16 ft		
Tetrachloroethene	4.2	0.0053	19	1.3
Vinyl chloride	ND	0.072	0.9	0.02

LEGEND	
⊕	SOIL PROBE / MONITORING WELL LOCATION INSTALLED DECEMBER 2024
	COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND PGSCO STANDARD

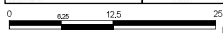
FIGURE 4
COMPOUNDS DETECTED ABOVE STANDARDS IN SOIL SAMPLES IN LOT 5

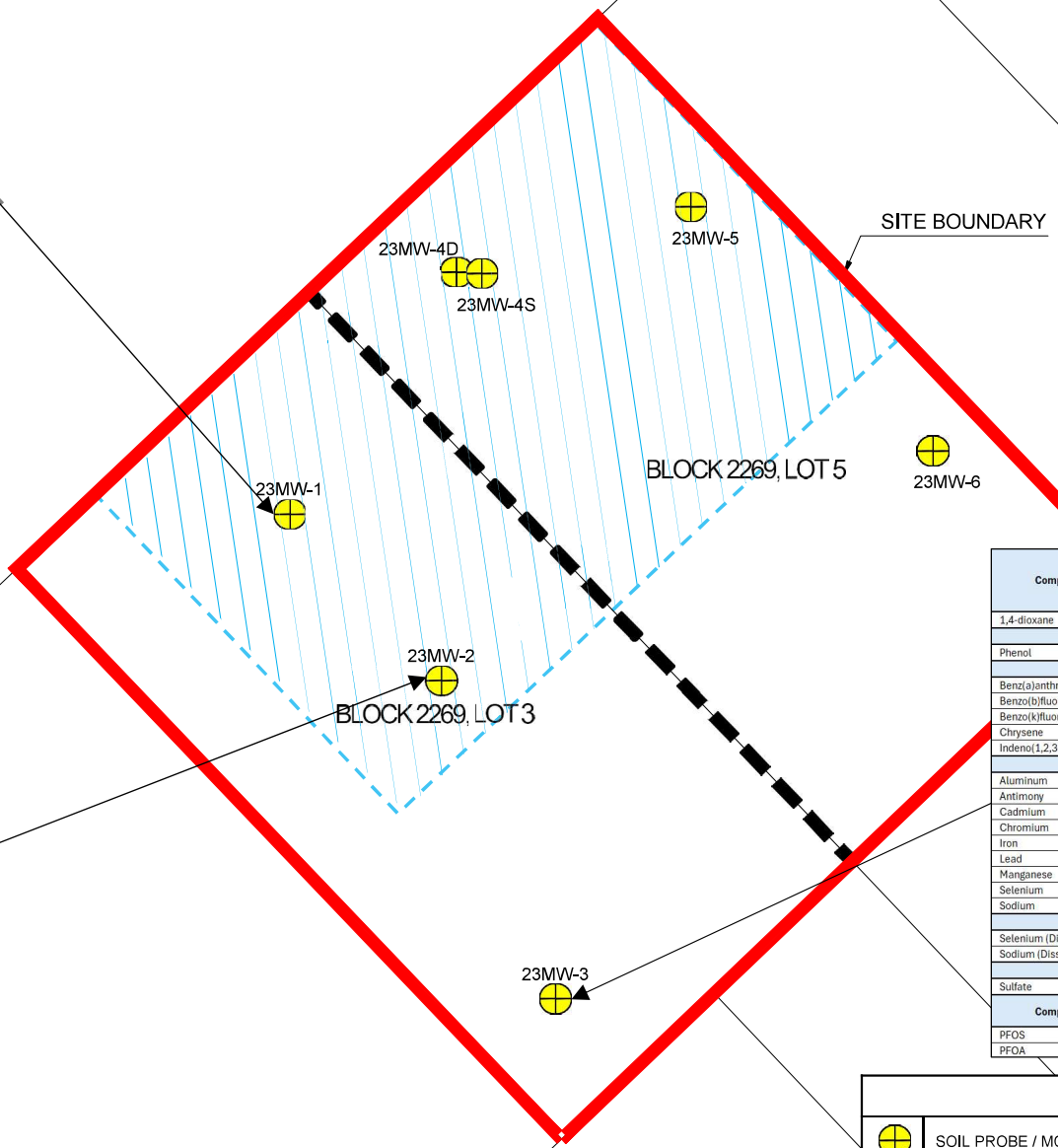
BCP Site No. 224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5

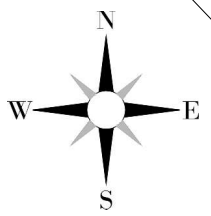
FIGURE NO.
4

Compound	NYSDEC TOGS 1.1.1	23MW-1 VOCs (ug/L) Collection Date		
		2/1/2024	1/7/2025	2/19/2025
1,1-Dichloroethane	5	7.4	4.6	8.6
cis-1,2-Dichloroethene	5	6	17	7.7
Tetrachloroethene	5	36	0.94	11
Trichloroethene	5	8.9	0.94	7.1
Vinyl chloride	2	0.45	16	1.3
1,4-Dioxane - SW8270ESIM (ug/L)				
1,4-dioxane	0.35	40	20	34
Metals Total - Undissolved (ug/L)				
Aluminum	100	3,480	279	53
Iron	300	6,950	3,700	750
Lead	25	30	1	ND
Manganese	300	681	1,500	500
Sodium	20,000	66,600	93,400	63,500
Metals Dissolved (ug/L)				
Manganese, (Dissolved)	300	646	1,470	463
Sodium (Dissolved)	20,000	64,900	86,700	61,600
Compound	**NYSDEC PFAS April 2023**	**PFAS (ng/L)**		
PFOS	2.7	4.26	2.29	< 1.89
PFOA	6.7	30.6	27.1	28.1

Compound	NYSDEC TOGS 1.1.1	23MW-2 VOCs (ug/L) Collection Date		
		2/5/2024	1/7/2025	2/18/2025
Benzene	1	ND	1.8	ND
cis-1,2-Dichloroethene	5	1.8	42	7.5
Tetrachloroethene	5	1.8	150	8.8
Trichloroethene	5	0.95	19	3.2
1,4-Dioxane - SW8270ESIM (ug/L)				
1,4-dioxane	0.35	31	2	9.3
SVOCs - SW8270E (SIM) (ug/L)				
Benz(a)anthracene	0.002	ND	0.07	ND
Benzo(b)fluoranthene	0.002	ND	0.06	ND
Benzo(k)fluoranthene	0.002	ND	0.05	ND
Chrysene	0.002	ND	0.07	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	0.04	ND
Metals Total - Undissolved (ug/L)				
Aluminum	100	49,300	87,700	30
Arsenic - LDL	25	19	48	5
Beryllium	3	3	7	ND
Cadmium	5	8	4	ND
Chromium	50	116	247	ND
Copper	200	130	240	2
Iron	300	105,000	221,000	320
Lead	25	149	457	ND
Magnesium	35,000	20,600	59,200	8,510
Manganese	300	1,380	4,630	570
Mercury	0.70	ND	1.8	ND
Nickel	100	91	224	4
Sodium	20,000	182,000	211,000	108,000
Thallium	0.50	ND	0.8	ND
Metals Dissolved (ug/L)				
Aluminum (Dissolved)	100	180	14	ND
Iron, (Dissolved)	300	570	12	ND
Manganese, (Dissolved)	300	700	1,470	568
Sodium (Dissolved)	20,000	184,000	200,000	112,000
Miscellaneous Inorganics (ug/l)				
Chloride	250,000	NT	309,000	116,000
Compound	**NYSDEC PFAS April 2023**	**PFAS (ng/L)**		
PFOS	2.7	1.18	19.3	1.18
PFOA	6.7	45.6	24.3	51.2







Compound	NYSDEC TOGS 1.1.1	23MW-3 1,4-dioxane (ug/L) Collection Date		
		2/5/2024	1/8/2025	2/18/2025
1,4-dioxane	0.35	0.91	0.22	ND
SVOCs - SW8270E (ug/L)				
Phenol	1	1.5	ND	1.1
SVOCs - SW8270E (SIM) (ug/L)				
Benz(a)anthracene	0.002	0.45	0.07	ND
Benzo(b)fluoranthene	0.002	0.42	0.05	ND
Benzo(k)fluoranthene	0.002	0.34	0.04	ND
Chrysene	0.002	0.42	0.06	ND
Indeno(1,2,3-cd)pyrene	0.002	0.46	0.03	ND
Metals Total - Undissolved (ug/L)				
Aluminum	100	22,100	445	30
Antimony	3	ND	8	5.9
Cadmium	5	6	ND	ND
Chromium	50	56	3	3
Iron	300	74,800	1,020	40
Lead	25	324	6	ND
Manganese	300	2,300	32	6
Selenium	10	ND	26	37
Sodium	20,000	97,500	71,400	54,200
Metals Dissolved (ug/L)				
Selenium (Dissolved)-LDL	10	ND	27	4
Sodium (Dissolved)	20,000	98,700	72,800	53,800
Miscellaneous Inorganics (ug/l)				
Sulfate	250,000	NT	375,000	388,000
Compound	**NYSDEC PFAS April 2023**	**PFAS (ng/L)**		
PFOS	2.7	5.61	6.8	2.47
PFOA	6.7	39.1	19.2	15.7

LEGEND

⊕	SOIL PROBE / MONITORING WELL LOCATION
	COMPOUNDS DETECTED ABOVE NYSDEC TOGS AWQS

Structural Engineering Technologies, P.C.
OFFICE
454-2 28th Street
Long Island City, NY 11101
T: (718) 706 - 7196

MARK	DESCRIPTION	DATE

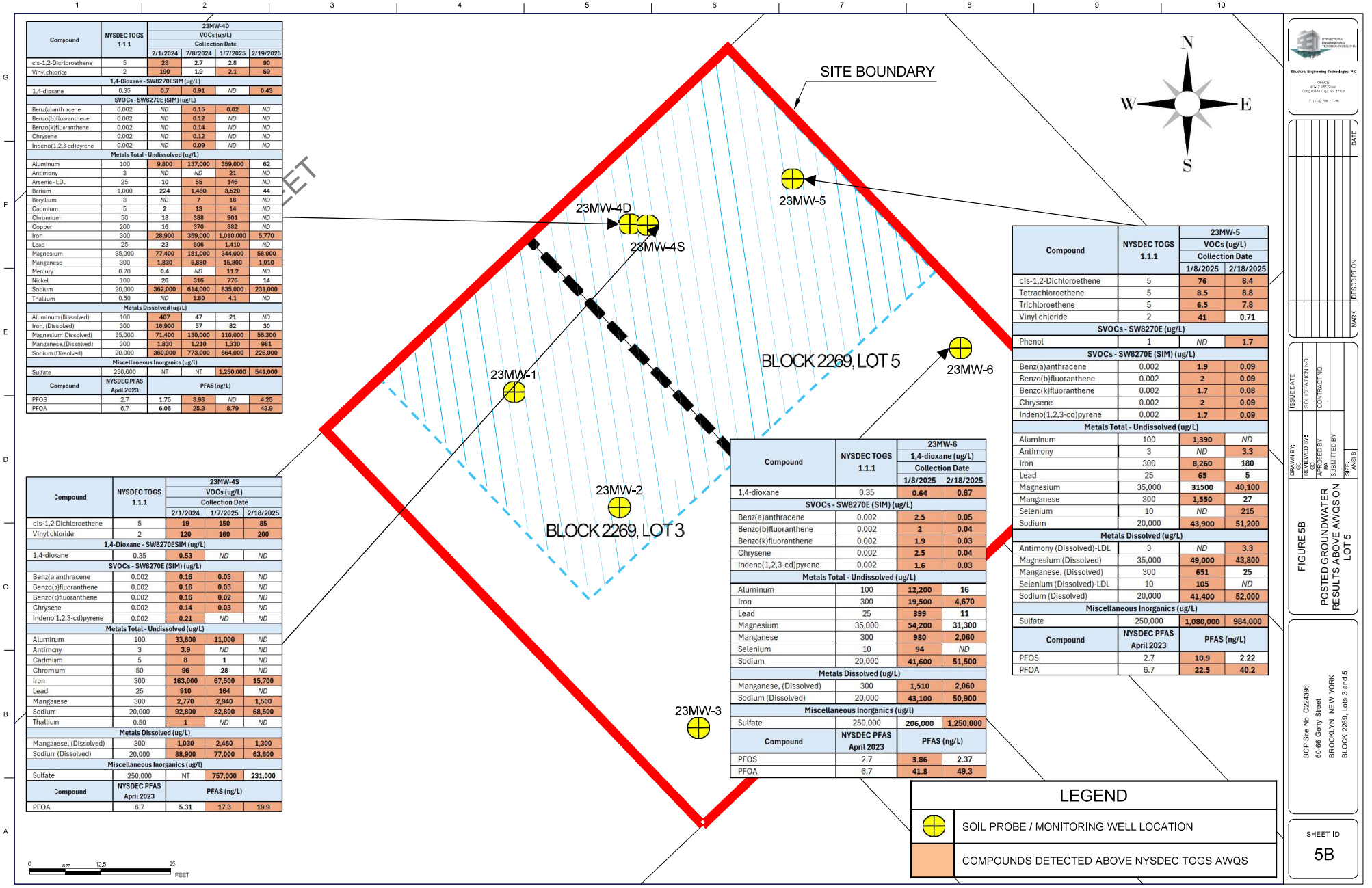
DRAWN BY: GC
REVIEWED BY: GC
APPROVED BY: RK
SUBMITTED BY:
SIZE: ANSI B

ISSUE DATE
SOLICITATION NO.
CONTRACT NO.

FIGURE 5A
POSTED GROUNDWATER RESULTS ABOVE AWQS ON LOT 3

BCP Site No. C224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5

SHEET ID
5A



Compound	NYSDEC TOGS 1.1.1	23MW-4D VOCs (ug/L) Collection Date 2/1/2024	7/8/2024	1/7/2025	2/19/2025
cis-1,2-Dichloroethene	5	28	2.7	2.8	90
Vinyl chloride	2	190	1.9	2.1	69
1,4-Dioxane - SW8270ESIM (ug/L)					
1,4-dioxane	0.35	0.7	0.91	ND	0.43
SVOCs - SW8270E (SIM) (ug/L)					
Benz(a)anthracene	0.002	ND	0.15	0.02	ND
Benzo(b)fluoranthene	0.002	ND	0.12	ND	ND
Benzo(k)fluoranthene	0.002	ND	0.14	ND	ND
Chrysene	0.002	ND	0.12	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	0.09	ND	ND
Metals Total - Undissolved (ug/L)					
Aluminum	100	9,800	137,000	359,000	62
Antimony	3	ND	ND	21	ND
Arsenic - LD.	25	10	55	146	ND
Barium	1,000	224	1,480	3,520	44
Beryllium	3	ND	7	18	ND
Cadmium	5	2	13	14	ND
Chromium	50	18	388	901	ND
Copper	200	16	370	882	ND
Iron	300	28,900	359,000	1,010,000	5,770
Lead	25	23	606	1,410	ND
Magnesium	35,000	77,400	181,000	344,000	58,000
Manganese	300	1,830	5,880	15,800	1,010
Mercury	0.70	0.4	ND	11.2	ND
Nickel	100	26	316	776	14
Sodium	20,000	362,000	614,000	835,000	231,000
Thallium	0.50	ND	1.80	4.1	ND
Metals Dissolved (ug/L)					
Aluminum (Dissolved)	100	407	47	21	ND
Iron, (Dissolved)	300	16,900	57	82	30
Magnesium (Dissolved)	35,000	71,400	130,000	110,000	56,300
Manganese, (Dissolved)	300	1,830	1,210	1,330	981
Sodium (Dissolved)	20,000	360,000	773,000	664,000	226,000
Miscellaneous Inorganics (ug/l)					
Sulfate	250,000	NT	NT	1,250,000	541,000
Compound	**NYSDEC PFAS April 2023**	**PFAS (ng/L)**			
PFOS	2.7	1.75	3.93	ND	4.25
PFOA	6.7	6.06	25.3	8.79	43.9

Compound	NYSDEC TOGS 1.1.1	23MW-4S VOCs (ug/L) Collection Date 2/1/2024	1/7/2025	2/18/2025
cis-1,2-Dichloroethene	5	19	150	85
Vinyl chloride	2	120	160	200
1,4-Dioxane - SW8270ESIM (ug/L)				
1,4-dioxane	0.35	0.53	ND	ND
SVOCs - SW8270E (SIM) (ug/L)				
Benz(a)anthracene	0.002	0.16	0.03	ND
Benzo(b)fluoranthene	0.002	0.16	0.03	ND
Benzo(k)fluoranthene	0.002	0.16	0.02	ND
Chrysene	0.002	0.14	0.03	ND
Indeno(1,2,3-cd)pyrene	0.002	0.21	ND	ND
Metals Total - Undissolved (ug/L)				
Aluminum	100	33,800	11,000	ND
Antimony	3	3.9	ND	ND
Cadmium	5	8	1	ND
Chromium	50	96	28	ND
Iron	300	163,000	67,500	15,700
Lead	25	910	164	ND
Manganese	300	2,770	2,940	1,500
Sodium	20,000	92,800	82,800	68,500
Thallium	0.50	1	ND	ND
Metals Dissolved (ug/L)				
Manganese, (Dissolved)	300	1,030	2,460	1,300
Sodium (Dissolved)	20,000	88,900	77,000	63,600
Miscellaneous Inorganics (ug/l)				
Sulfate	250,000	NT	757,000	231,000
Compound	**NYSDEC PFAS April 2023**	**PFAS (ng/L)**		
PFOA	6.7	5.31	17.3	19.9

Compound	NYSDEC TOGS 1.1.1	23MW-6 1,4-dioxane (ug/L) Collection Date 1/8/2025	2/18/2025
1,4-dioxane	0.35	0.64	0.67
SVOCs - SW8270E (SIM) (ug/L)			
Benz(a)anthracene	0.002	2.5	0.05
Benzo(b)fluoranthene	0.002	2	0.04
Benzo(k)fluoranthene	0.002	1.9	0.03
Chrysene	0.002	2.5	0.04
Indeno(1,2,3-cd)pyrene	0.002	1.6	0.03
Metals Total - Undissolved (ug/L)			
Aluminum	100	12,200	16
Iron	300	19,500	4,670
Lead	25	399	11
Magnesium	35,000	54,200	31,300
Manganese	300	980	2,060
Selenium	10	94	ND
Sodium	20,000	41,600	51,500
Metals Dissolved (ug/L)			
Manganese, (Dissolved)	300	1,510	2,060
Sodium (Dissolved)	20,000	43,100	50,900
Miscellaneous Inorganics (ug/l)			
Sulfate	250,000	206,000	1,250,000
Compound	**NYSDEC PFAS April 2023**	**PFAS (ng/L)**	
PFOS	2.7	3.86	2.37
PFOA	6.7	41.8	49.3

Compound	NYSDEC TOGS 1.1.1	23MW-5 VOCs (ug/L) Collection Date 1/8/2025	2/18/2025
cis-1,2-Dichloroethene	5	76	8.4
Tetrachloroethene	5	8.5	8.8
Trichloroethene	5	6.5	7.8
Vinyl chloride	2	41	0.71
SVOCs - SW8270E (ug/L)			
Phenol	1	ND	1.7
SVOCs - SW8270E (SIM) (ug/L)			
Benz(a)anthracene	0.002	1.9	0.09
Benzo(b)fluoranthene	0.002	2	0.09
Benzo(k)fluoranthene	0.002	1.7	0.08
Chrysene	0.002	2	0.09
Indeno(1,2,3-cd)pyrene	0.002	1.7	0.09
Metals Total - Undissolved (ug/L)			
Aluminum	100	1,390	ND
Antimony	3	ND	3.3
Iron	300	8,260	180
Lead	25	65	5
Magnesium	35,000	31500	40,100
Manganese	300	1,550	27
Selenium	10	ND	215
Sodium	20,000	43,900	51,200
Metals Dissolved (ug/L)			
Antimony (Dissolved)-LDL	3	ND	3.3
Magnesium (Dissolved)	35,000	49,000	43,800
Manganese, (Dissolved)	300	651	25
Selenium (Dissolved)-LDL	10	105	ND
Sodium (Dissolved)	20,000	41,400	52,000
Miscellaneous Inorganics (ug/L)			
Sulfate	250,000	1,080,000	984,000
Compound	**NYSDEC PFAS April 2023**	**PFAS (ng/L)**	
PFOS	2.7	10.9	2.22
PFOA	6.7	22.5	40.2

LEGEND

⊕	SOIL PROBE / MONITORING WELL LOCATION
	COMPOUNDS DETECTED ABOVE NYSDEC TOGS AWQS

Structural Engineering Technologies, P.C.
OFFICE
45-23 28th Street
Long Island City, NY 11101
T: (718) 706 - 7196

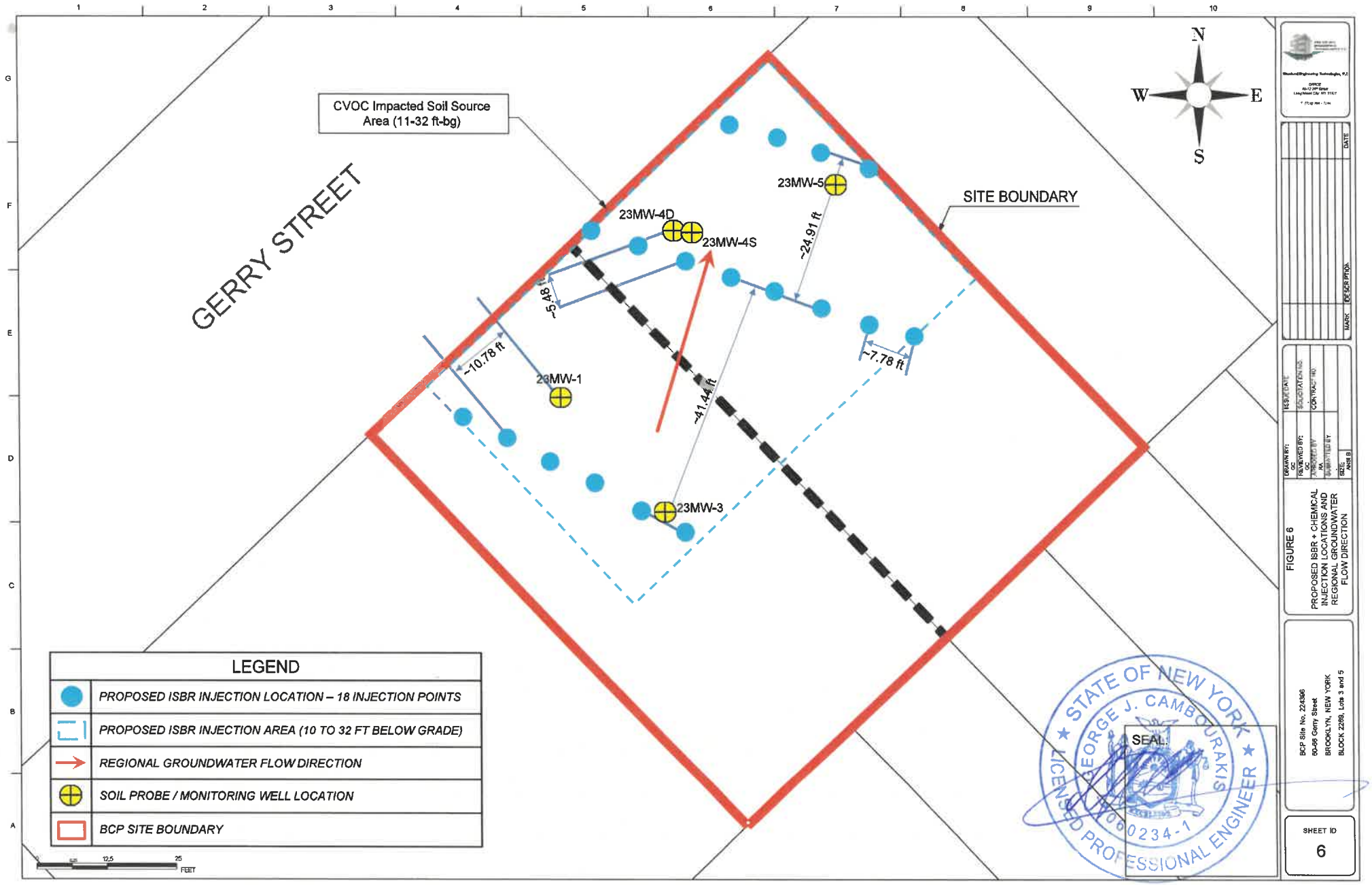
MARK	DESCRIPTION	DATE

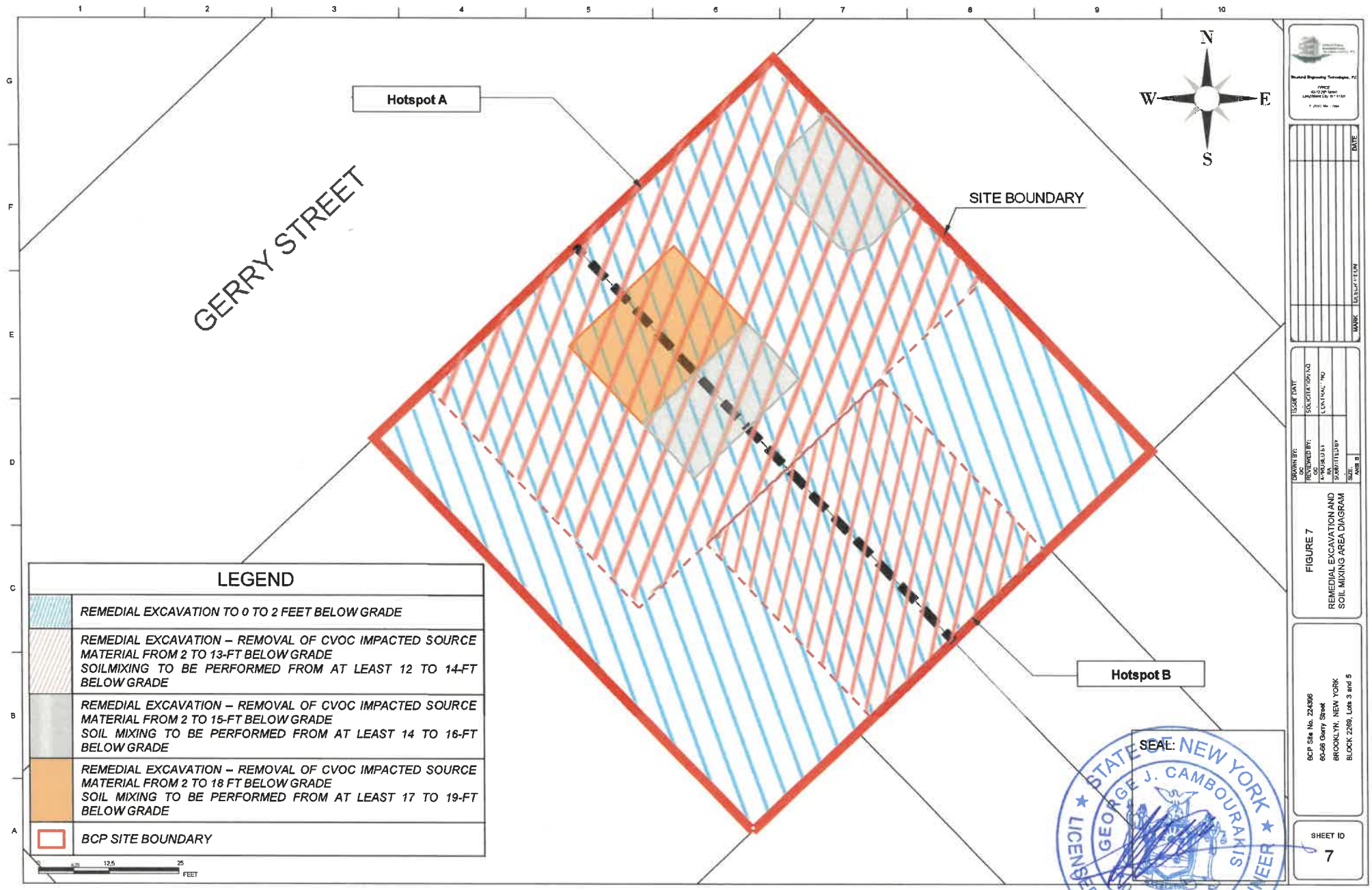
ISSUE DATE
SOLICITATION NO.
CONTRACT NO.
DRAWN BY: CC
REVIEWED BY: CC
APPROVED BY: RK
SUBMITTED BY
SIZE: ANSI B

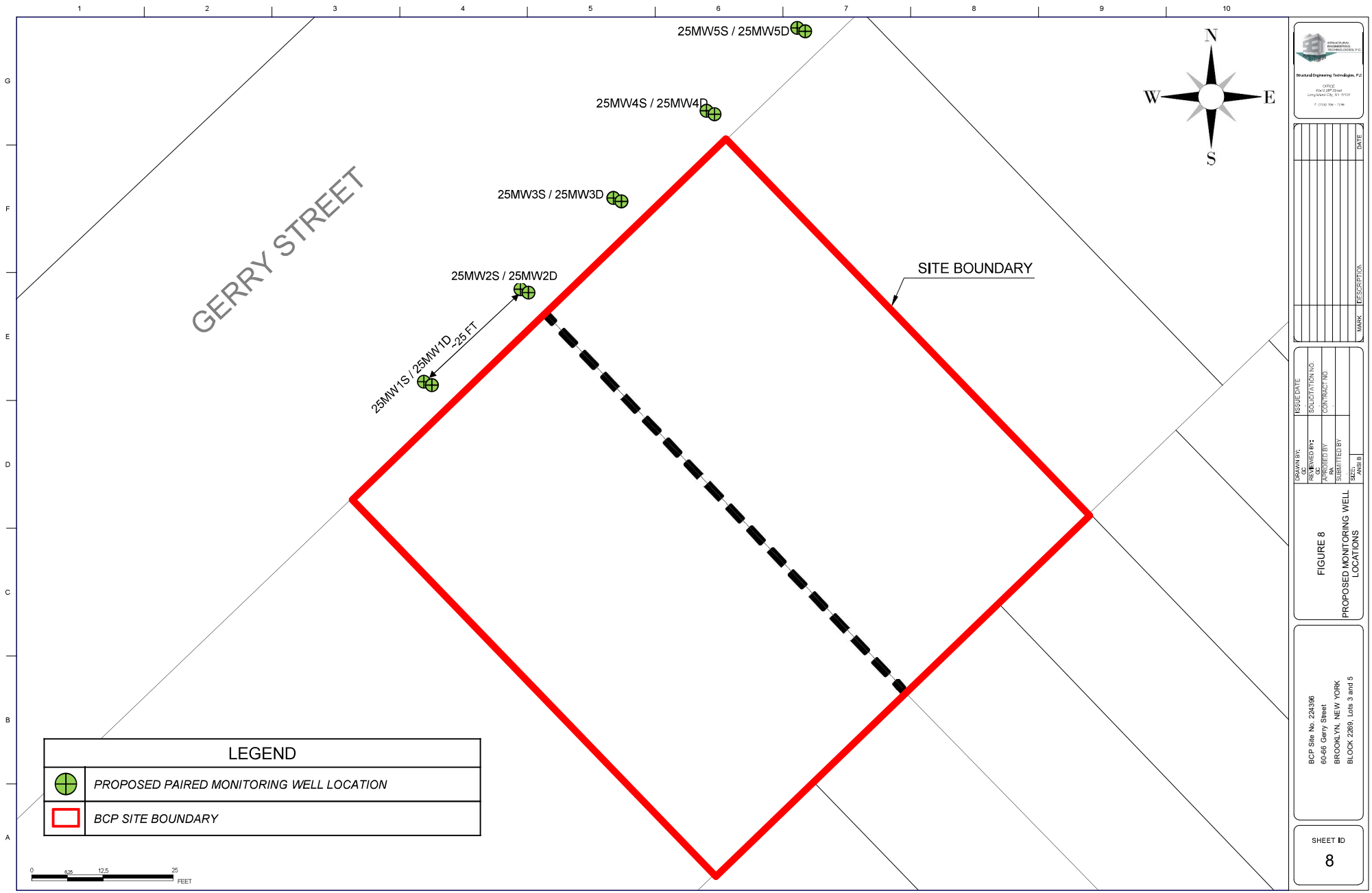
FIGURE 5B
POSTED GROUNDWATER RESULTS ABOVE AWQS ON LOT 5

BCP Site No. C224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269; Lots 3 and 5

SHEET ID
5B


CVOC Impacted Soil Source Area (11-32 ft-bg)
GERRY STREET
SITE BOUNDARY
23MW-5
23MW-4D
23MW-4S
23MW-1
23MW-3
~24.91 ft
~5.48 ft
~10.78 ft
~41.44 ft
~7.78 ft
N
W
E
S
LEGEND
PROPOSED ISBR INJECTION LOCATION – 18 INJECTION POINTS
PROPOSED ISBR INJECTION AREA (10 TO 32 FT BELOW GRADE)
REGIONAL GROUNDWATER FLOW DIRECTION
SOIL PROBE / MONITORING WELL LOCATION
BCP SITE BOUNDARY
12.5
25
FEET
STATE OF NEW YORK
GEORGE J. CAMBOURAKIS
LICENSED PROFESSIONAL ENGINEER
SEAL:
FIGURE 6
PROPOSED ISBR + CHEMICAL INJECTION LOCATIONS AND REGIONAL GROUNDWATER FLOW DIRECTION
BCP Site No. 224086
50-56 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5
SHEET ID
6


Hotspot A
GERRY STREET
SITE BOUNDARY
Hotspot B
N
W
E
S
LEGEND
REMEDIAL EXCAVATION TO 0 TO 2 FEET BELOW GRADE
REMEDIAL EXCAVATION – REMOVAL OF CVOC IMPACTED SOURCE MATERIAL FROM 2 TO 13-FT BELOW GRADE
SOILMIXING TO BE PERFORMED FROM AT LEAST 12 TO 14-FT BELOW GRADE
REMEDIAL EXCAVATION – REMOVAL OF CVOC IMPACTED SOURCE MATERIAL FROM 2 TO 15-FT BELOW GRADE
SOIL MIXING TO BE PERFORMED FROM AT LEAST 14 TO 16-FT BELOW GRADE
REMEDIAL EXCAVATION – REMOVAL OF CVOC IMPACTED SOURCE MATERIAL FROM 2 TO 18 FT BELOW GRADE
SOIL MIXING TO BE PERFORMED FROM AT LEAST 17 TO 19-FT BELOW GRADE
BCP SITE BOUNDARY
12.5
25
FEET
SEAL:
STATE OF NEW YORK
GEORGE J. CAMBOURAKIS
060234-1
LICENSED PROFESSIONAL ENGINEER
DATE
MARK
DRAWN BY:
REVIEWED BY:
GC
SCALE:
AS IS
ISSUE DATE:
SUBMITTED BY:
SUBMITTED TO:
CENTRAL / NO
SOIL: AS IS
FIGURE 7
REMEDIAL EXCAVATION AND SOIL MIXING AREA DIAGRAM
BCP Site No. 224386
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5
SHEET ID
7



Structural Engineering Technologies, P.C.

OFFICE
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MARK	DESCRIPTION	DATE

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REVIEWED BY: CC
APPROVED BY: RK
SUBMITTED BY:
SIZE: ANSI B
ISSUE DATE
SOLICITATION NO.
CONTRACT NO.

FIGURE 8
PROPOSED MONITORING WELL LOCATIONS

BCP Site No. 224396
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2289; Lots 3 and 5

SHEET ID
8

Table 1
Soil Volatile Organic Compound Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGWSCO	23MW-5 (10-12`)		23MW-5 (14-16`)		23MW-6 (12-14')		23MW-6 (14-16`)	
Collection Date			12/27/2024		12/27/2024		12/27/2024		12/27/2024	
Matrix			SOIL		SOIL		SOIL		SOIL	
Unit			mg/kg		mg/kg		mg/kg		mg/kg	
Compound			Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,1,1-Trichloroethane	100	0.68	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,1,2,2-Tetrachloroethane	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,1,2-Trichloroethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,1-Dichloroethane	26	0.27	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,1-Dichloroethene	100	0.33	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,1-Dichloropropene	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2,3-Trichlorobenzene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2,3-Trichloropropane	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2,4-Trichlorobenzene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2,4-Trimethylbenzene	52	3.6	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2-Dibromo-3-chloropropane	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2-Dibromoethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2-Dichlorobenzene	100	1.1	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2-Dichloroethane	3.1	0.02	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,2-Dichloropropane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,3,5-Trimethylbenzene	52	8.4	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,3-Dichlorobenzene	49	2.4	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,3-Dichloropropane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
1,4-Dichlorobenzene	13	1.8	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
2,2-Dichloropropane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
2-Chlorotoluene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
2-Hexanone	~	~	< 0.023	0.023	< 0.02	0.02	< 0.022	0.022	< 0.019	0.019
2-Isopropyltoluene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
4-Chlorotoluene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
4-Methyl-2-pentanone	~	~	< 0.023	0.023	< 0.02	0.02	< 0.022	0.022	< 0.019	0.019
Acetone	100	0.05	< 0.023	0.023	**0.012**	0.02	< 0.022	0.022	< 0.019	0.019
Acrylonitrile	~	~	< 0.0093	0.0093	< 0.0078	0.0078	< 0.0087	0.0087	< 0.0076	0.0076
Benzene	4.8	0.06	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Bromobenzene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Bromochloromethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Bromodichloromethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Bromoform	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Bromomethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Carbon Disulfide	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Carbon tetrachloride	2.4	0.76	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Chlorobenzene	100	1.1	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Chloroethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Chloroform	49	0.37	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Chloromethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
cis-1,2-Dichloroethene	100	0.25	**0.21**	0.18	**0.24**	0.21	< 0.0044	0.0044	< 0.0038	0.0038
cis-1,3-Dichloropropene	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Dibromochloromethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Dibromomethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Dichlorodifluoromethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Ethylbenzene	41	1	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Hexachlorobutadiene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Isopropylbenzene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
m&p-Xylene	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Methyl Ethyl Ketone	100	0.12	< 0.023	0.023	< 0.02	0.02	< 0.022	0.022	< 0.019	0.019
Methyl t-butyl ether (MTBE)	100	0.93	< 0.0093	0.0093	< 0.0078	0.0078	< 0.0087	0.0087	< 0.0076	0.0076
Methylene chloride	100	0.05	< 0.0093	0.0093	< 0.0078	0.0078	< 0.0087	0.0087	< 0.0076	0.0076
n-Butylbenzene	100	12	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
n-Propylbenzene	100	3.9	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Naphthalene	100	12	**0.21**	0.18	< 0.0039	0.0039	**0.21**	0.2	< 0.0038	0.0038
o-Xylene	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
p-Isopropyltoluene	~	~	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
sec-Butylbenzene	100	11	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Styrene	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
tert-Butylbenzene	100	5.9	< 0.46	0.46	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Tetrachloroethene	19	1.3	**4.2**	0.46	**0.0053**	0.0039	**0.017**	0.0044	< 0.0038	0.0038
Tetrahydrofuran (THF)	~	~	< 0.0093	0.0093	< 0.0078	0.0078	< 0.0087	0.0087	< 0.0076	0.0076
Toluene	100	0.7	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Total Xylenes	100	1.6	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
trans-1,2-Dichloroethene	100	0.19	< 0.0047	0.0047	**0.00071**	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
trans-1,3-Dichloropropene	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
trans-1,4-dichloro-2-butene	~	~	< 0.92	0.92	< 0.0078	0.0078	< 0.0087	0.0087	< 0.0076	0.0076
Trichloroethene	21	0.47	**0.31**	0.28	**0.0012**	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Trichlorofluoromethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Trichlorotrifluoroethane	~	~	< 0.0047	0.0047	< 0.0039	0.0039	< 0.0044	0.0044	< 0.0038	0.0038
Vinyl chloride	0.9	0.02	< 0.0047	0.0047	**0.072**	0.0039	< 0.0044	0.0044	< 0.0038	0.0038

NOTES:
Any Regulatory Exceedences are color coded by Regulation
Orange shaded values exceed the NYSDEC PGWSCO
Bolded values exceed the Reporting Limit (RL)
mg/kg..milligrams per kilogram
~...no standard

Table 2A
Groundwater Volatile Organic Compound Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-1		23MW-1		23 MW-1		23MW-2		23MW-2		23MW-2		23MW-3		23MW-3		23MW-3	
Sample Location		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3	
Collection Date	TOGS 1.1.1 WQ/GA Table 1	02/01/2024		1/7/2025		2/19/2025		2/5/2024		1/7/2025		2/18/2025		2/5/2024		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		Groundwater		Ground Water		Ground Water		Groundwater		Groundwater		Ground Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,1,1-Trichloroethane	5	**4.3**	5	< 5.0	5.0	**1.9**	5.0	< 5.0	5.0	< 5.0	5.0	**0.4**	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0
1,1,2-Trichloroethane	1	**0.35**	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,1-Dichloroethane	5	**7.4**	5	**4.6**	5.0	**8.6**	5.0	**1.4**	5.0	< 5.0	5.0	**1.7**	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
1,1-Dichloroethene	5	**0.26**	1	< 5.0	5.0	**0.41**	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**0.47**	1.0	< 1.0	1	< 1.0	1.0
1,1-Dichloropropene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2,3-Trichlorobenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 0.25	0.25	< 2.0	2.0	< 0.25	0.25	< 1.0	1.0	< 2.0	2.0	< 0.25	0.25	< 1.0	1.0	< 1.0	1	< 0.25	0.25
1,2,4-Trichlorobenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 0.50	0.5	< 1.7	1.7	< 0.50	0.50	< 1.0	1.0	< 1.7	1.7	< 0.50	0.50	< 1.0	1.0	< 1.0	1	< 0.50	0.50
1,2-Dibromoethane	0.0006	< 0.25	0.25	< 1.0	1.0	< 0.25	0.25	< 1.0	1.0	< 1.0	1.0	< 0.25	0.25	< 1.0	1.0	< 1.0	1	< 0.25	0.25
1,2-Dichlorobenzene	~	< 1.0	1	< 4.7	4.7	< 1.0	1.0	< 1.0	1.0	< 4.7	4.7	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2-Dichloroethane	0.6	< 0.60	0.6	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.6	< 0.60	0.60
1,2-Dichloropropane	1	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,3-Dichlorobenzene	3	< 1.0	1	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,3-Dichloropropane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,4-Dichlorobenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2,2-Dichloropropane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2-Chlorotoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2-Hexanone	50	< 2.5	2.5	< 25	25	< 2.5	2.5	< 2.5	2.5	< 25	25	< 2.5	2.5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
2-Isopropyltoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
4-Chlorotoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
4-Methyl-2-pentanone	~	< 2.5	2.5	< 25	25	< 2.5	2.5	< 2.5	2.5	< 25	25	< 2.5	2.5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
Acetone	50	< 5.0	5	< 50	50	< 5.0	5.0	< 5.0	5.0	< 50	50	< 5.0	5.0	**5.9**	5.0	< 25	25	< 5.0	5.0
Acrolein	5	< 5.0	5	NT		< 5.0	5.0	< 5.0	5.0	NT		< 5.0	5.0	< 5.0	5.0	NT		< 5.0	5.0
Acrylonitrile	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Benzene	1	< 0.70	0.7	**0.54**	0.70	< 0.70	0.70	< 0.70	0.70	**1.8**	0.70	< 0.70	0.70	< 0.70	0.70	< 0.70	0.7	< 0.70	0.70
Bromobenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Bromochloromethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Bromodichloromethane	50	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0
Bromoform	50	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Bromomethane	5	**0.26**	5	< 5.0	5.0	< 5.0	5.0	**0.41**	5.0	< 5.0	5.0	< 5.0	5.0	**0.36**	5.0	< 1.0	1	< 5.0	5.0
Carbon Disulfide	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5	< 1.0	1.0
Carbon tetrachloride	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Chlorobenzene	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Chloroethane	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Chloroform	7	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Chloromethane	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
cis-1,2-Dichloroethene	5	**6**	1	**17**	5.0	**7.7**	1.0	**1.8**	1.0	**42**	5.0	**7.5**	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
cis-1,3-Dichloropropene	0.4	< 0.40	0.4	< 0.4	0.4	< 0.40	0.40	< 0.40	0.40	< 0.4	0.4	< 0.40	0.40	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40
Dibromochloromethane	50	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0
Dibromomethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Dichlorodifluoromethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Ethylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Hexachlorobutadiene	0.5	< 0.50	0.5	< 0.5	0.5	< 0.50	0.50	< 0.50	0.50	< 0.5	0.5	< 0.50	0.50	< 0.50	0.50	< 0.40	0.4	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
m&p-Xylene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Methyl ethyl ketone	50	< 2.5	2.5	< 30	30	< 2.5	2.5	< 2.5	2.5	< 30	30	< 2.5	2.5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	~	< 1.0	1	**0.86**	10	< 1.0	1.0	< 1.0	1.0	**2.8**	10	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Methylene chloride	5	< 3.0	3	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 5.0	5.0	< 3.0	3.0	< 3.0	3.0	< 1.0	1	< 3.0	3.0
n-Butylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	**4.2**	1.0	< 1.0	1	< 1.0	1.0
n-Propylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Naphthalene	10	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
o-Xylene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
p-Isopropyltoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
sec-Butylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Styrene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
tert-Butylbenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Tetrachloroethene	5	**36**	1	**0.94**	5.0	**11**	1.0	**1.8**	1.0	**150**	5.0	**8.8**	1.0	< 1.0	1.0	< 1.0	1	**0.95**	1.0
Tetrahydrofuran (THF)	50	< 5.0	5	< 10	10	< 5.0	5.0	< 5.0	5.0	< 10	10	< 5.0	5.0	< 5.0	5.0	< 2.5	2.5	< 5.0	5.0
Toluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Total Xylenes	5	NT		< 5.0	5.0			NT		< 5.0	5.0			NT		< 1.0	1	NT	
trans-1,2-Dichloroethene	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 0.40	0.4	< 0.4	0.4	< 0.40	0.40	< 0.40	0.40	< 0.4	0.4	< 0.40	0.40	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 2.5	2.5	< 5	5	< 2.5	2.5	< 2.5	2.5	< 5	5	< 2.5	2.5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
Trichloroethene	5	**8.9**	1	**3.2**	5.0	**7.1**	1.0	**0.95**	1.0	**19**	5.0	**3.2**	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Trichlorofluoromethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Trichlorotrifluoroethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Vinyl chloride	2	**0.45**	1	**16**	5.0	**1.3**	1.0	< 1.0	1.0	**1.1**	2.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Total VOCs	~	**63.92**		**43.14**		**38.01**		**6.36**		**216.7**		**21.6**		**10.93**		**0**		**0.95**	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

NT = Not Tested

Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2A continued
Groundwater Volatile Organic Compound Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-4S		23MW-4S		23MW-4S		23MW-4D		23MW-4D		23MW-4D		23 MW-4D		23MW-5		23MW-5		23MW-6		23 MW-6	
Sample Location		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5	
Collection Date	TOGS 1.1.1 WQ/GA Table 1	02/01/2024		1/7/2025		2/18/2025		02/01/2024		7/8/2024		1/7/2025		2/19/2025		01/08/2025		2/18/2025		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		GROUND WATER		Ground Water		Ground Water		Ground Water		GROUND WATER		Ground Water		GROUND WATER		Ground Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,1,1-Trichloroethane	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
1,1,2,2-Tetrachloroethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 0.50	0.50	< 5.0	5.0	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0
1,1,2-Trichloroethane	1	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,1-Dichloroethane	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
1,1-Dichloroethene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,1-Dichloropropene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2,3-Trichlorobenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2,3-Trichloropropane	0.04	< 0.25	0.25	< 2.0	2.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 2.0	2.0	< 0.25	0.25	< 1.0	1	< 0.25	0.25	< 1.0	1	< 0.25	0.25
1,2,4-Trichlorobenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2,4-Trimethylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2-Dibromo-3-chloropropane	0.04	< 0.50	0.5	< 1.7	1.7	< 0.50	0.50	< 0.50	0.5	< 0.50	0.50	< 1.7	1.7	< 0.50	0.50	< 1.0	1	< 0.50	0.50	< 1.0	1	< 0.50	0.50
1,2-Dibromoethane	0.0006	< 0.25	0.25	< 1.0	1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25	< 1.0	1.0	< 0.25	0.25	< 1.0	1	< 0.25	0.25	< 1.0	1	< 0.25	0.25
1,2-Dichlorobenzene	~	< 1.0	1	< 4.7	4.7	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 4.7	4.7	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,2-Dichloroethane	0.6	< 0.60	0.6	< 0.60	0.60	< 0.60	0.60	< 0.60	0.6	< 0.60	0.60	< 0.60	0.60	< 0.60	0.60	< 0.60	0.6	< 0.60	0.60	< 0.60	0.6	< 0.60	0.60
1,2-Dichloropropane	1	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,3,5-Trimethylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,3-Dichlorobenzene	3	< 1.0	1	< 3.0	3.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 3.0	3.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,3-Dichloropropane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
1,4-Dichlorobenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2,2-Dichloropropane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2-Chlorotoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2-Hexanone	50	< 2.5	2.5	< 25	25	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 25	25	< 2.5	2.5	< 5.0	5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
2-Isopropyltoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
4-Chlorotoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
4-Methyl-2-pentanone	~	< 2.5	2.5	< 25	25	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 25	25	< 2.5	2.5	< 5.0	5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
Acetone	50	**2.7**	5	< 50	50	< 5.0	5.0	**9.4**	5	**15**	25	< 50	50	< 5.0	5.0	< 25	25	< 5.0	5.0	< 25	25	< 5.0	5.0
Acrolein	5	< 5.0	5	NT		< 5.0	5.0	< 5.0	5	NT		NT		< 5.0	5.0	NT		< 5.0	5.0	NT		< 5.0	5.0
Acrylonitrile	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Benzene	1	< 0.70	0.7	< 0.70	0.70	< 0.70	0.70	< 0.70	0.7	< 0.70	0.70	< 0.70	0.70	< 0.70	0.70	< 0.70	0.7	< 0.70	0.70	< 0.70	0.7	< 0.70	0.70
Bromobenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Bromochloromethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Bromodichloromethane	50	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 0.50	0.50	< 5.0	5.0	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0
Bromoform	50	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Bromomethane	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	**0.31**	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Carbon Disulfide	~	**0.55**	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	**0.27**	5.0	< 5.0	5.0	< 1.0	1.0	< 5.0	5	< 1.0	1.0	< 5.0	5	**0.87**	1.0
Carbon tetrachloride	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Chlorobenzene	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Chloroethane	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Chloroform	7	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
Chloromethane	5	< 5.0	5	< 5.0	5.0	< 5.0	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	< 1.0	1	< 5.0	5.0	< 1.0	1	< 5.0	5.0
cis-1,2-Dichloroethene	5	**19**	1	**150**	5.0	**85**	1.0	**28**	1	**2.7**	1.0	**2.8**	5.0	**90**	1.0	**76**	1	**8.4**	1.0	**1.5**	1	**1.6**	1.0
cis-1,3-Dichloropropene	0.4	< 0.40	0.4	< 0.4	0.4	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40	< 0.4	0.4	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40
Dibromochloromethane	50	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 0.50	0.50	< 5.0	5.0	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0	< 0.50	0.5	< 1.0	1.0
Dibromomethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Dichlorodifluoromethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Ethylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Hexachlorobutadiene	0.5	< 0.50	0.5	< 0.5	0.5	< 0.50	0.50	< 0.50	0.5	< 0.40	0.40	< 0.5	0.5	< 0.50	0.50	< 0.40	0.4	< 0.50	0.50	< 0.40	0.4	< 0.50	0.50
Isopropylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
m&p-Xylene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Methyl ethyl ketone	50	< 2.5	2.5	< 30	30	< 2.5	2.5	**7.3**	2.5	< 5.0	5.0	< 30	30	< 2.5	2.5	< 5.0	5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
Methyl t-butyl ether (MTBE)	~	**0.49**	1	**1.1**	10	**0.85**	1.0	**0.79**	1	**0.84**	1.0	< 10	10	**0.93**	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	**0.67**	1.0
Methylene chloride	5	< 3.0	3	< 5.0	5.0	< 3.0	3.0	< 3.0	3	< 1.0	1.0	< 5.0	5.0	< 3.0	3.0	< 1.0	1	< 3.0	3.0	< 1.0	1	< 3.0	3.0
n-Butylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
n-Propylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Naphthalene	10	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
o-Xylene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
p-Isopropyltoluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
sec-Butylbenzene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Styrene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
tert-Butylbenzene	~	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Tetrachloroethene	5	< 1.0	1	< 5.0	5.0	**0.54**	1.0	**0.26**	1	**0.41**	1.0	< 5.0	5.0	**0.86**	1.0	**8.5**	1	**8.8**	1.0	< 1.0	1	< 1.0	1.0
Tetrahydrofuran (THF)	50	< 5.0	5	< 10	10	< 5.0	5.0	< 5.0	5	< 2.5	2.5	< 10	10	< 5.0	5.0	< 2.5	2.5	< 5.0	5.0	< 2.5	2.5	< 5.0	5.0
Toluene	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Total Xylenes	5	NT		< 5.0	5.0	NT		NT		< 1.0	1.0	< 5.0	5.0	NT		< 1.0	1			< 1.0	1	NT	
trans-1,2-Dichloroethene	5	< 5.0	5	< 5.0	5.0	**0.37**	5.0	< 5.0	5	< 1.0	1.0	< 5.0	5.0	< 5.0	5.0	**1.2**	1	**0.82**	5.0	< 1.0	1	< 5.0	5.0
trans-1,3-Dichloropropene	0.4	< 0.40	0.4	< 0.4	0.4	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40	< 0.4	0.4	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40	< 0.40	0.4	< 0.40	0.40
trans-1,4-dichloro-2-butene	5	< 2.5	2.5	< 5	5	< 2.5	2.5	< 2.5	2.5	< 5.0	5.0	< 5	5	< 2.5	2.5	< 5.0	5	< 2.5	2.5	< 5.0	5	< 2.5	2.5
Trichloroethene	5	< 1.0	1	< 5.0	5.0	**0.35**	1.0	< 1.0	1	**0.6**	1.0	< 5.0	5.0	**0.9**	1.0	**6.5**	1	**7.8**	1.0	< 1.0	1	**0.4**	1.0
Trichlorofluoromethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Trichlorotrifluoroethane	5	< 1.0	1	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 5.0	5.0	< 1.0	1.0	< 1.0	1	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Vinyl chloride	2	**120**	20	**160**	5.0	**200**	20	**190**	10	**1.9**	1.0	**2.1**	2.0	**69**	1.0	**41**	1	**0.71**	1.0	< 1.0	1	**1.2**	1.0
Total VOCs	~	**142.74**		**311.1**		**287.11**		**236.06**		**21.72**		**4.9**		**161.69**		**132**		**26.53**		**0**		**4.74**	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

NT = Not Tested

Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards

Bolded values exceed the RL

ug/L....micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2B
Groundwater Semi Volatile Organic Compound Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-1		23MW-1		23 MW-1		23MW-2		23MW-2		23MW-2		23MW-3		23MW-3		23MW-3	
Sample Location	TOGS 1.1.1 WQ/GA	Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3	
Collection Date	Table 1	02/01/2024		1/7/2025		2/19/2025		2/5/2024		1/7/2025		2/18/2025		2/5/2024		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		Groundwater		Ground Water		Ground Water		Groundwater		Groundwater		Ground Water	
Units		ug/L		ug/L		ug/l		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,4-dioxane - SW8270ESIM																			
1,4-dioxane	0.35	**40**	0.2	**20**	0.50	**34**	0.20	**31**	0.40	**2**	0.50	**9.3**	0.20	**0.91**	0.20	**0.22**	0.2	< 0.20	0.20
Semivolatiles - SW8270E																			
1,2,4,5-Tetrachlorobenzene	~	< 3.3	3.3	< 3.4	3.4	< 3.3	3.3	< 3.5	3.5	< 3.3	3.3	< 3.4	3.4	< 3.5	3.5	< 3.5	3.5	< 3.5	3.5
1,2,4-Trichlorobenzene	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
1,2-Dichlorobenzene	~	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 2.5	2.5	< 1.0	1.0
1,2-Diphenylhydrazine	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
1,3-Dichlorobenzene	3	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 2.5	2.5	< 1.0	1.0
1,4-Dichlorobenzene	~	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 2.5	2.5	< 1.0	1.0
2,2'-Oxybis(1-Chloropropane)	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
2,4,5-Trichlorophenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2,4,6-Trichlorophenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2,4-Dichlorophenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2,4-Dimethylphenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2,4-Dinitrophenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2,4-Dinitrotoluene	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
2,6-Dinitrotoluene	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
2-Chloronaphthalene	10	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
2-Chlorophenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2-Methylnaphthalene	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	NT		< 5	5
2-Methylphenol (o-cresol)	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
2-Nitroaniline	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0
2-Nitrophenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
3&4-Methylphenol (m&p-cresol)	~	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 10	10	< 1.0	1.0
3,3'-Dichlorobenzidine	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0
3-Nitroaniline	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0
4,6-Dinitro-2-methylphenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
4-Bromophenyl phenyl ether	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
4-Chloro-3-methylphenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
4-Chloroaniline	5	< 3.3	3.3	< 3.4	3.4	< 3.3	3.3	< 3.5	3.5	< 3.3	3.3	< 3.4	3.4	< 3.5	3.5	< 5.1	5.1	< 3.5	3.5
4-Chlorophenyl phenyl ether	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 1.0	1	< 5	5
4-Nitroaniline	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5.0	5.0
4-Nitrophenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Acenaphthene	20	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	NT		< 5	5
Acetophenone	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Aniline	5	< 3.3	3.3	< 3.4	3.4	< 3.3	3.3	< 3.5	3.5	< 3.3	3.3	< 3.4	3.4	< 3.5	3.5	< 5.1	5.1	< 3.5	3.5
Anthracene	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	NT		< 5	5
Benzidine	5	< 4.2	4.2	< 4.3	4.3	< 4.2	4.2	< 4.5	4.5	< 4.2	4.2	< 4.4	4.4	< 4.5	4.5	< 5.1	5.1	< 4.5	4.5
Benzoic acid	~	< 24	24	< 24	24	< 24	24	< 25	25	< 24	24	< 24	24	< 25	25	< 51	51	< 25	25
Benzyl butyl phthalate	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Bis(2-chloroethoxy)methane	5	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Bis(2-chloroethyl)ether	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Bis(2-ethylhexyl)phthalate	5	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Carbazole	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Di-n-butylphthalate	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Di-n-octylphthalate	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Dibenzofuran	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Diethyl phthalate	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Dimethylphthalate	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Fluoranthene	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	NT		< 5	5
Fluorene	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	NT		< 5	5
Hexachloroethane	5	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	< 1.0	1.0	< 1.0	1	< 1.0	1.0
Isophorone	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 2.4	2.4	< 5.0	5.0	< 5.1	5.1	< 5	5
N-Nitrosodi-n-propylamine	~	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	**2.1**	5.0	< 5.1	5.1	< 5	5
N-Nitrosodiphenylamine	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	< 5.1	5.1	< 5	5
Naphthalene	10	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	NT		< 5	5
Pentachloronitrobenzene	~	< 2.4	2.4	< 2.4	2.4	< 2.4	2.4	< 2.5	2.5	< 2.4	2.4	< 2.4	2.4	< 2.5	2.5	< 2.5	2.5	< 2.5	2.5
Phenol	1	< 0.94	0.94	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.97	0.97	**1.5**	1.0	< 1.0	1	**1.1**	1.0
Pyrene	50	< 4.7	4.7	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 4.9	4.9	< 5.0	5.0	NT		< 5	5
Pyridine	50	< 9.4	9.4	< 9.6	9.6	< 9.4	9.4	< 10	10	< 9.4	9.4	< 9.7	9.7	< 10	10	NT		< 10	10
Semivolatiles - SW8270E (SIM)																			
2-Methylnaphthalene	~	NT		NT		NT		NT		NT		NT		NT		< 0.51	0.51	NT	
Acenaphthene	20	NT		NT		< 0.47	0.47	NT		NT		< 0.49	0.49	NT		< 0.51	0.51	< 0.57	0.57
Acenaphthylene	~	< 0.47	0.47	< 0.48	0.48	NT		< 0.50	0.50	< 0.47	0.47	NT		< 0.50	0.50	< 0.51	0.51	NT	
Anthracene	50	NT		NT		NT		NT		NT		NT		NT		< 0.51	0.51	NT	
Benz(a)anthracene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	**0.07**	0.02	< 0.02	0.02	**0.45**	0.02	**0.07**	0.02	< 0.02	0.02
Benzo(a)pyrene	~	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	**0.06**	0.02	< 0.02	0.02	**0.5**	0.02	**0.06**	0.02	< 0.02	0.02
Benzo(b)fluoranthene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	**0.06**	0.02	< 0.02	0.02	**0.42**	0.02	**0.05**	0.02	< 0.02	0.02
Benzo(ghi)perylene	~	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.49	0.49	< 0.50	0.50	< 0.51	0.51	< 0.57	0.57
Benzo(k)fluoranthene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	**0.05**	0.02	< 0.02	0.02	**0.34**	0.02	**0.04**	0.02	< 0.02	0.02
Chrysene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	**0.07**	0.02	< 0.02	0.02	**0.42**	0.02	**0.06**	0.02	< 0.02	0.02
Dibenz(a,h)anthracene	~	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.49	0.49	< 0.50	0.50	< 0.51	0.51	< 0.57	0.57
Fluoranthene	50	NT		NT		NT		NT		NT		NT		NT		< 0.51	0.51	NT	
Fluorene	50	NT		NT		NT		NT		NT		NT		NT		< 0.51	0.51	NT	
Hexachlorobenzene	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04
Hexachlorobutadiene	0.5	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.49	0.49	< 0.50	0.50	< 0.51	0.51	< 0.50	0.50
Hexachlorocyclopentadiene	5	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.49	0.49	< 0.50	0.50	< 0.51	0.51	< 0.57	0.57
Indeno(1,2,3-cd)pyrene	0.002	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	**0.04**	0.02	< 0.02	0.02	**0.46**	0.02	**0.03**	0.02	< 0.02	0.02
N-Nitrosodimethylamine	~	< 0.09	0.09	< 0.38	0.38	< 0.09	0.09	< 0.40	0.40	< 0.38	0.38	< 0.10	0.10	< 0.40	0.40	< 0.51	0.51	< 0.11	0.11
Naphthalene	10	NT		NT		NT		NT		NT		NT		NT		< 0.51	0.51	NT	
Nitrobenzene	0.4	< 0.38	0.38	< 0.10	0.10	< 0.38	0.38	< 0.10	0.10	< 0.09	0.09	< 0.39	0.39	< 0.10	0.10	< 0.40	0.4	< 0.40	0.40
Pentachlorophenol	1	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.49	0.49	< 0.50	0.50	< 0.51	0.51	< 0.57	0.57
Phenanthrene	50	< 0.47	0.47	< 0.48	0.48	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.49	0.49	**0.64**	0.50	< 0.51	0.51	< 0.57	0.57
Pyrene	50	NT		NT		NT		NT		NT		NT		NT		< 0.51	0.51	NT	
Pyridine	50	NT		NT		NT		NT		NT		NT		NT		< 0.51	0.51	NT	
Total SVOCs	~	40		20		34		31		2.35		9.3		7.74		0.53		1.1	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2B continued
Groundwater Semi Volatile Organic Compound Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-4S		23MW-4S		23MW-4S		23MW-4D		23MW-4D		23MW-4D		23 MW-4D		23MW-5		23MW-5		23MW-6		23 MW-6	
Sample Location		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5	
Collection Date	TOGS 1.1.1	02/01/2024		1/7/2025		2/18/2025		02/01/2024		7/8/2024		1/7/2025		2/19/2025		01/08/2025		2/18/2025		01/08/2025		2/18/2025	
Matrix	WQ/GA Table 1	GROUND WATER		Ground Water		Ground Water		GROUND WATER		Ground Water		Ground Water		Ground Water		GROUND WATER		Ground Water		GROUND WATER		Ground Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/l		ug/L		ug/L		ug/L		ug/l	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,4-dioxane - SW8270ESIM																							
1,4-dioxane	0.35	**0.53**	0.2	< 0.50	0.50	< 0.40	0.40	**0.7**	0.2	**0.91**	0.40	< 1.0	1.0	**0.43**	0.20	**0.23**	0.2	**0.29**	0.20	**0.64**	0.2	**0.67**	0.20
Semivolatiles - SW8270E																							
1,2,4,5-Tetrachlorobenzene	~	< 3.4	3.4	< 3.3	3.3	< 3.5	3.5	< 3.4	3.4	< 5.1	5.1	< 3.3	3.3	< 3.5	3.5	< 3.3	3.3	< 3.5	3.5	< 3.4	3.4	< 3.4	3.4
1,2,4-Trichlorobenzene	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
1,2-Dichlorobenzene	~	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 3.7	3.7	< 0.94	0.94	< 1.0	1.0	< 2.4	2.4	< 0.99	0.99	< 2.4	2.4	< 0.98	0.98
1,2-Diphenylhydrazine	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
1,3-Dichlorobenzene	3	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 3.0	3.0	< 0.94	0.94	< 1.0	1.0	< 2.4	2.4	< 0.99	0.99	< 2.4	2.4	< 0.98	0.98
1,4-Dichlorobenzene	~	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 3.7	3.7	< 0.94	0.94	< 1.0	1.0	< 2.4	2.4	< 0.99	0.99	< 2.4	2.4	< 0.98	0.98
2,2'-Oxybis(1-Chloropropane)	5	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
2,4,5-Trichlorophenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
2,4,6-Trichlorophenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
2,4-Dichlorophenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
2,4-Dimethylphenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
2,4-Dinitrophenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
2,4-Dinitrotoluene	5	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
2,6-Dinitrotoluene	5	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
2-Chloronaphthalene	10	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
2-Chlorophenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
2-Methylnaphthalene	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	NT		< 4.7	4.7	< 5.0	5.0	NT		< 5.0	5.0	NT		< 4.9	4.9
2-Methylphenol (o-cresol)	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
2-Nitroaniline	5	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
2-Nitrophenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
3&4-Methylphenol (m&p-cresol)	~	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 15	15	< 0.94	0.94	< 1.0	1.0	< 9.4	9.4	< 0.99	0.99	< 9.6	9.6	< 0.98	0.98
3,3'-Dichlorobenzidine	5	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
3-Nitroaniline	5	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
4,6-Dinitro-2-methylphenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
4-Bromophenyl phenyl ether	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
4-Chloro-3-methylphenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
4-Chloroaniline	5	< 3.4	3.4	< 3.3	3.3	< 3.5	3.5	< 3.4	3.4	< 5.0	5.0	< 3.3	3.3	< 3.5	3.5	< 4.7	4.7	< 3.5	3.5	< 4.8	4.8	< 3.4	3.4
4-Chlorophenyl phenyl ether	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 1.5	1.5	< 4.7	4.7	< 5.0	5.0	< 0.94	0.94	< 5.0	5.0	< 0.96	0.96	< 4.9	4.9
4-Nitroaniline	5	< 4.8	4.8	< 4.7	4.7	< 5.0	5.0	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
4-Nitrophenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
Acenaphthene	20	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	NT		< 4.7	4.7	< 5.0	5.0	NT		< 5.0	5.0	NT		< 4.9	4.9
Acetophenone	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Aniline	5	< 3.4	3.4	< 3.3	3.3	< 3.5	3.5	< 3.4	3.4	< 5.0	5.0	< 3.3	3.3	< 3.5	3.5	< 4.7	4.7	< 3.5	3.5	< 4.8	4.8	< 3.4	3.4
Anthracene	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	NT		< 4.7	4.7	< 5.0	5.0	NT		< 5.0	5.0	NT		< 4.9	4.9
Benzidine	5	< 4.3	4.3	< 4.2	4.2	< 4.5	4.5	< 4.4	4.4	< 5.0	5.0	< 4.2	4.2	< 4.5	4.5	< 4.7	4.7	< 4.5	4.5	< 4.8	4.8	< 4.4	4.4
Benzoic acid	~	< 24	24	< 24	24	< 25	25	< 25	25	< 50	50	< 24	24	< 25	25	< 47	47	< 25	25	< 48	48	< 25	25
Benzyl butyl phthalate	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Bis(2-chloroethoxy)methane	5	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Bis(2-chloroethyl)ether	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
Bis(2-ethylhexyl)phthalate	5	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.5	1.5	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
Carbazole	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Di-n-butylphthalate	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Di-n-octylphthalate	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Dibenzofuran	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Diethyl phthalate	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Dimethylphthalate	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Fluoranthene	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	NT		< 4.7	4.7	< 5.0	5.0	NT		< 5.0	5.0	NT		< 4.9	4.9
Fluorene	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	NT		< 4.7	4.7	< 5.0	5.0	NT		< 5.0	5.0	NT		< 4.9	4.9
Hexachloroethane	5	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.5	1.5	< 0.94	0.94	< 1.0	1.0	< 0.94	0.94	< 0.99	0.99	< 0.96	0.96	< 0.98	0.98
Isophorone	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
N-Nitrosodi-n-propylamine	~	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
N-Nitrosodiphenylamine	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	< 7.4	7.4	< 4.7	4.7	< 5.0	5.0	< 4.7	4.7	< 5.0	5.0	< 4.8	4.8	< 4.9	4.9
Naphthalene	10	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	NT		< 4.7	4.7	< 5.0	5.0	NT		< 5.0	5.0	NT		< 4.9	4.9
Pentachloronitrobenzene	~	< 2.4	2.4	< 2.4	2.4	< 2.5	2.5	< 2.5	2.5	< 3.7	3.7	< 2.4	2.4	< 2.5	2.5	< 2.4	2.4	< 2.5	2.5	< 2.4	2.4	< 2.5	2.5
Phenol	1	< 0.96	0.96	< 0.94	0.94	< 1.0	1.0	< 0.98	0.98	< 1.0	1.0	< 0.94	0.94	< 1.0	1.0	< 2.0	2	**1.7**	0.99	< 0.96	0.96	< 0.98	0.98
Pyrene	50	< 4.8	4.8	< 4.7	4.7	< 5	5	< 4.9	4.9	NT		< 4.7	4.7	< 5.0	5.0	NT		< 5.0	5.0	NT		< 4.9	4.9
Pyridine	50	< 9.6	9.6	< 9.4	9.4	< 10	10	< 9.8	9.8	NT		< 9.4	9.4	< 10	10	NT		< 9.9	9.9	NT		< 9.8	9.8
Semivolatiles - SW8270E (SIM)																							
2-Methylnaphthalene	~	NT		NT		NT		NT		< 0.74	0.74	NT		NT		< 0.47	0.47	NT		< 0.48	0.48	NT	
Acenaphthene	20	NT		NT		< 0.64	0.64	NT		< 0.74	0.74	NT		< 0.50	0.50	< 0.47	0.47	< 0.50	0.50	< 0.48	0.48	< 0.49	0.49
Acenaphthylene	~	< 0.48	0.48	< 0.47	0.47	NT		< 0.49	0.49	< 0.74	0.74	< 0.47	0.47	NT		< 0.47	0.47	NT		< 0.48	0.48	NT	
Anthracene	50	NT		NT		NT		NT		< 0.74	0.74	NT		NT		**0.54**	0.47	NT		**0.79**	0.48	NT	
Benz(a)anthracene	0.002	**0.16**	0.02	**0.03**	0.02	< 0.02	0.02	< 0.02	0.02	**0.15**	0.03	**0.02**	0.02	< 0.02	0.02	**1.9**	0.02	**0.09**	0.02	**2.5**	0.02	**0.05**	0.02
Benzo(a)pyrene	~	**0.2**	0.02	**0.03**	0.02	< 0.02	0.02	< 0.02	0.02	**0.11**	0.03	< 0.02	0.02	< 0.02	0.02	**2.3**	0.02	**0.11**	0.02	**2.3**	0.02	**0.04**	0.02
Benzo(b)fluoranthene	0.002	**0.16**	0.02	**0.03**	0.02	< 0.02	0.02	< 0.02	0.02	**0.12**	0.03	< 0.02	0.02	< 0.02	0.02	**2**	0.02	**0.09**	0.02	**2**	0.02	**0.04**	0.02
Benzo(ghi)perylene	~	< 0.48	0.48	< 0.47	0.47	< 0.64	0.64	< 0.49	0.49	< 0.74	0.74	< 0.47	0.47	< 0.50	0.50	**1.4**	0.47	< 0.50	0.50	**1.3**	0.48	< 0.49	0.49
Benzo(k)fluoranthene	0.002	**0.16**	0.02	**0.02**	0.02	< 0.02	0.02	< 0.02	0.02	**0.14**	0.03	< 0.02	0.02	< 0.02	0.02	**1.7**	0.02	**0.08**	0.02	**1.9**	0.02	**0.03**	0.02
Chrysene	0.002	**0.14**	0.02	**0.03**	0.02	< 0.02	0.02	< 0.02	0.02	**0.12**	0.03	< 0.02	0.02	< 0.02	0.02	**2**	0.02	**0.09**	0.02	**2.5**	0.02	**0.04**	0.02
Dibenz(a,h)anthracene	~	< 0.48	0.48	< 0.47	0.47	< 0.64	0.64	< 0.49	0.49	< 0.74	0.74	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.50	0.50	< 0.48	0.48	< 0.49	0.49
Fluoranthene	50	NT		NT		NT		NT		< 0.74	0.74	NT		NT		**4**	0.47	NT		**5**	0.48	NT	
Fluorene	50	NT		NT		NT		NT		< 0.74	0.74	NT		NT		< 0.47	0.47	NT		< 0.48	0.48	NT	
Hexachlorobenzene	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04	< 0.04	0.04
Hexachlorobutadiene	0.5	< 0.48	0.48	< 0.47	0.47	< 0.50	0.50	< 0.49	0.49	< 0.50	0.50	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.50	0.50	< 0.48	0.48	< 0.49	0.49
Hexachlorocyclopentadiene	5	< 0.48	0.48	< 0.47	0.47	< 0.64	0.64	< 0.49	0.49	< 0.74	0.74	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.50	0.50	< 0.48	0.48	< 0.49	0.49
Indeno(1,2,3-cd)pyrene	0.002	**0.21**	0.02	< 0.02	0.02	< 0.02	0.02	< 0.02	0.02	**0.09**	0.03	< 0.02	0.02	< 0.02	0.02	**1.7**	0.02	**0.09**	0.02	**1.6**	0.02	**0.03**	0.02
N-Nitrosodimethylamine	~	< 0.10	0.1	< 0.38	0.38	< 0.13	0.13	< 0.10	0.1	< 0.74	0.74	< 0.38	0.38	< 0.10	0.10	< 0.47	0.47	< 0.10	0.10	< 0.48	0.48	< 0.10	0.10
Naphthalene	10	NT		NT		NT		NT		< 0.40	0.40	NT		NT		< 0.47	0.47	NT		< 0.48	0.48	NT	
Nitrobenzene	0.4	< 0.38	0.38	< 0.09	0.09	< 0.40	0.40	< 0.39	0.39	< 0.74	0.74	< 0.09	0.09	< 0.40	0.40	< 0.38	0.38	< 0.40	0.40	< 0.38	0.38	< 0.39	0.39
Pentachlorophenol	1	< 0.48	0.48	< 0.47	0.47	< 0.64	0.64	< 0.49	0.49	< 0.74	0.74	< 0.47	0.47	< 0.50	0.50	< 0.47	0.47	< 0.50	0.50	< 0.48	0.48	< 0.49	0.49
Phenanthrene	50	< 0.48	0.48	< 0.47	0.47	< 0.64	0.64	< 0.49	0.49	< 0.74	0.74	< 0.47	0.47	< 0.50	0.50	**2.1**	0.47	< 0.50	0.50	**3.6**	0.48	< 0.49	0.49
Pyrene	50	NT		NT		NT		NT		< 0.74	0.74	NT		NT		**3.8**	0.47	NT		**4.7**	0.48	NT	
Pyridine	50	NT		NT		NT		NT		< 0.74	0.74	NT		NT		< 0.47	0.47	NT		< 0.48	0.48	NT	
Total SVOCs	~	1.56		0.14		0		0.7		1.64		0.02		0.43		23.67		2.54		28.83		0.9	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2C

Groundwater Pesticide Compound Analytical Results

60-66 Gerry Street, Brooklyn, New York

Sample ID	TOGS 1.1.1 WQ/GA Table 1	23MW-1		23MW-1		23 MW-1		23MW-2		23MW-2		23MW-2		23MW-3		23MW-3		23MW-3	
Sample Location		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3	
Collection Date		02/01/2024		1/7/2025		2/19/2025		2/5/2024		1/7/2025		2/18/2025		2/5/2024		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		Groundwater		Ground Water		Ground Water		Groundwater		Groundwater		Ground Water	
Units		ug/L		ug/L		ug/l		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
4,4' -DDD	0.3	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.060	0.06	< 0.006	0.006
4,4' -DDE	0.2	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.060	0.06	< 0.006	0.006
4,4' -DDT	0.2	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.060	0.06	< 0.006	0.006
a-BHC	0.01	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.030	0.03	< 0.006	0.006
a-chlordane	~	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	NT		< 0.013	0.013
Alachlor	0.5	< 0.071	0.071	< 0.073	0.073	< 0.071	0.071	< 0.071	0.071	< 0.073	0.073	< 0.075	0.075	< 0.071	0.071	< 0.089	0.089	< 0.097	0.097
Aldrin	~	< 0.001	0.001	< 0.002	0.002	< 0.001	0.001	< 0.001	0.001	< 0.002	0.002	< 0.002	0.002	< 0.010	0.010	< 0.010	0.01	< 0.002	0.002
b-BHC	0.04	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.006	0.006	< 0.006	0.006
Chlordane	0.05	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.36	0.36	< 0.026	0.026
d-BHC	0.04	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.030	0.03	< 0.006	0.006
Dieldrin	0.004	< 0.001	0.001	< 0.004	0.004	< 0.001	0.001	< 0.001	0.001	< 0.004	0.004	< 0.002	0.002	< 0.001	0.001	< 0.002	0.002	< 0.002	0.002
Endosulfan I	~	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.060	0.06	< 0.013	0.013
Endosulfan II	~	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.060	0.06	< 0.013	0.013
Endosulfan Sulfate	~	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.060	0.06	< 0.013	0.013
Endrin	~	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.060	0.06	< 0.007	0.007
Endrin Aldehyde	5	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.060	0.06	< 0.013	0.013
Endrin ketone	5	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.060	0.06	< 0.013	0.013
g-BHC (Lindane)	0.05	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.005	0.005	< 0.030	0.03	< 0.006	0.006
g-chlordane	~	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	NT		< 0.013	0.013
Heptachlor	0.04	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.030	0.03	< 0.007	0.007
Heptachlor epoxide	0.03	< 0.009	0.009	< 0.010	0.010	< 0.009	0.009	< 0.009	0.009	< 0.010	0.010	< 0.010	0.010	< 0.009	0.009	< 0.030	0.03	< 0.007	0.007
Methoxychlor	35	< 0.094	0.094	< 0.097	0.097	< 0.094	0.094	< 0.094	0.094	< 0.097	0.097	< 0.10	0.10	< 0.094	0.094	< 0.12	0.12	< 0.13	0.13
Toxaphene	0.06	< 0.19	0.19	< 0.19	0.19	< 0.19	0.19	< 0.19	0.19	< 0.19	0.19	< 0.20	0.20	< 0.19	0.19	< 1.2	1.2	< 0.26	0.26

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2C continued

Groundwater Pesticide Compound Analytical Results

60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-4S		23MW-4S		23MW-4S		23MW-4D		23MW-4D		23MW-4D		23 MW-4D		23MW-5		23MW-5		23MW-6		23 MW-6	
Sample Location		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5	
Collection Date	TOGS 1.1.1 WQ/GA Table 1	02/01/2024		1/7/2025		2/18/2025		02/01/2024		7/8/2024		1/7/2025		2/19/2025		01/08/2025		2/18/2025		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		GROUND WATER		Ground Water		Ground Water		Ground Water		GROUND WATER		Ground Water		GROUND WATER		Ground Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/l		ug//L		ug/L		ug//L		ug/l	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
4,4' -DDD	0.3	< 0.005	0.005	< 0.005	0.005	< 0.007	0.007	< 0.005	0.005	< 0.021	0.021	< 0.005	0.005	< 0.005	0.005	< 0.27	0.27	< 0.005	0.005	< 0.055	0.055	< 0.005	0.005
4,4' -DDE	0.2	< 0.005	0.005	< 0.005	0.005	< 0.007	0.007	< 0.005	0.005	< 0.021	0.021	< 0.005	0.005	< 0.005	0.005	< 0.27	0.27	< 0.005	0.005	< 0.055	0.055	< 0.005	0.005
4,4' -DDT	0.2	< 0.005	0.005	< 0.005	0.005	< 0.007	0.007	< 0.010	0.01	< 0.021	0.021	< 0.005	0.005	< 0.005	0.005	< 0.27	0.27	< 0.005	0.005	< 0.055	0.055	< 0.005	0.005
a-BHC	0.01	< 0.005	0.005	< 0.005	0.005	< 0.007	0.007	< 0.005	0.005	< 0.021	0.021	< 0.005	0.005	< 0.005	0.005	< 0.13	0.13	< 0.005	0.005	< 0.027	0.027	< 0.005	0.005
a-chlordane	~	< 0.010	0.01	< 0.009	0.009	< 0.014	0.014	< 0.009	0.009	NT		< 0.009	0.009	< 0.010	0.010	NT		< 0.010	0.010	NT		< 0.010	0.010
Alachlor	0.5	< 0.075	0.075	< 0.071	0.071	< 0.10	0.10	< 0.071	0.071	< 0.051	0.051	< 0.071	0.071	< 0.074	0.074	< 0.40	0.4	< 0.072	0.072	< 0.082	0.082	< 0.073	0.073
Aldrin	~	< 0.002	0.002	< 0.001	0.001	< 0.002	0.002	< 0.001	0.001	< 0.010	0.010	< 0.001	0.001	< 0.002	0.002	< 0.008	0.008	< 0.001	0.001	< 0.10	0.1	< 0.002	0.002
b-BHC	0.04	< 0.005	0.005	< 0.005	0.005	< 0.007	0.007	< 0.005	0.005	< 0.021	0.021	< 0.005	0.005	< 0.005	0.005	< 0.027	0.027	< 0.005	0.005	< 0.10	0.1	< 0.005	0.005
Chlordane	0.05	< 0.050	0.05	< 0.047	0.047	< 0.028	0.028	< 0.047	0.047	< 0.21	0.21	< 0.047	0.047	< 0.049	0.049	< 1.6	1.6	< 0.048	0.048	< 0.33	0.33	< 0.049	0.049
d-BHC	0.04	< 0.005	0.005	< 0.005	0.005	< 0.007	0.007	< 0.005	0.005	< 0.021	0.021	< 0.005	0.005	< 0.005	0.005	< 0.13	0.13	< 0.005	0.005	< 0.027	0.027	< 0.020	0.020
Dieldrin	0.004	< 0.002	0.002	< 0.001	0.001	< 0.002	0.002	< 0.001	0.001	< 0.021	0.021	< 0.001	0.001	< 0.002	0.002	< 0.008	0.008	< 0.001	0.001	< 0.010	0.01	< 0.002	0.002
Endosulfan I	~	< 0.010	0.01	< 0.009	0.009	< 0.014	0.014	< 0.009	0.009	< 0.051	0.051	< 0.009	0.009	< 0.010	0.010	< 0.27	0.27	< 0.010	0.010	< 0.055	0.055	< 0.010	0.010
Endosulfan II	~	< 0.010	0.01	< 0.009	0.009	< 0.014	0.014	< 0.009	0.009	< 0.051	0.051	< 0.009	0.009	< 0.010	0.010	< 0.27	0.27	< 0.010	0.010	< 0.055	0.055	< 0.010	0.010
Endosulfan Sulfate	~	< 0.010	0.01	< 0.009	0.009	< 0.014	0.014	< 0.009	0.009	< 0.051	0.051	< 0.009	0.009	< 0.010	0.010	< 0.27	0.27	< 0.010	0.010	< 0.055	0.055	< 0.010	0.010
Endrin	~	< 0.010	0.01	< 0.009	0.009	< 0.007	0.007	< 0.009	0.009	< 0.051	0.051	< 0.009	0.009	< 0.010	0.010	< 0.27	0.27	< 0.010	0.010	< 0.055	0.055	< 0.010	0.010
Endrin Aldehyde	5	< 0.010	0.01	< 0.009	0.009	< 0.014	0.014	< 0.009	0.009	< 0.51	0.51	< 0.009	0.009	< 0.010	0.010	< 0.27	0.27	< 0.010	0.010	< 0.055	0.055	< 0.010	0.010
Endrin ketone	5	< 0.010	0.01	< 0.009	0.009	< 0.014	0.014	< 0.009	0.009	< 0.51	0.51	< 0.009	0.009	< 0.010	0.010	< 0.27	0.27	< 0.010	0.010	< 0.055	0.055	< 0.010	0.010
g-BHC (Lindane)	0.05	< 0.005	0.005	< 0.005	0.005	< 0.007	0.007	< 0.005	0.005	< 0.004	0.004	< 0.005	0.005	< 0.005	0.005	< 0.13	0.13	< 0.005	0.005	< 0.027	0.027	< 0.005	0.005
g-chlordane	~	< 0.010	0.01	< 0.009	0.009	< 0.014	0.014	< 0.009	0.009	NT		< 0.009	0.009	< 0.010	0.010	NT		< 0.010	0.010	NT		< 0.010	0.010
Heptachlor	0.04	< 0.010	0.01	< 0.009	0.009	< 0.007	0.007	< 0.009	0.009	< 0.051	0.051	< 0.009	0.009	< 0.010	0.010	< 0.13	0.13	< 0.010	0.010	< 0.027	0.027	< 0.010	0.010
Heptachlor epoxide	0.03	< 0.010	0.01	< 0.009	0.009	< 0.007	0.007	< 0.009	0.009	< 0.051	0.051	< 0.009	0.009	< 0.010	0.010	< 0.13	0.13	< 0.010	0.010	< 0.027	0.027	< 0.010	0.010
Methoxychlor	35	< 0.10	0.1	< 0.094	0.094	< 0.14	0.14	< 0.094	0.094	< 1.0	1.0	< 0.094	0.094	< 0.098	0.098	< 0.53	0.53	< 0.096	0.096	< 0.11	0.11	< 0.097	0.097
Toxaphene	0.06	< 0.20	0.2	< 0.19	0.19	< 0.28	0.28	< 0.19	0.19	< 2.1	2.1	< 0.19	0.19	< 0.20	0.20	< 5.3	5.3	< 0.19	0.19	< 1.1	1.1	< 0.19	0.19

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2D

Groundwater PCB Compound Analytical Results

60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-1		23MW-1		23 MW-1		23MW-2		23MW-2		23MW-2		23MW-3		23MW-3		23MW-3	
Sample Location		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3	
Collection Date	TOGS 1.1.1 WQ/GA Table 1	02/01/2024		1/7/2025		2/19/2025		2/5/2024		1/7/2025		2/18/2025		2/5/2024		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		Groundwater		Ground Water		Ground Water		Groundwater		Groundwater		Ground Water	
Units		ug/L		ug/L		ug/l		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
PCB-1016	0.09	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1221	0.09	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1232	0.09	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1242	0.09	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1248	0.09	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1254	0.09	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1260	0.09	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1262	~	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065
PCB-1268	~	< 0.047	0.047	< 0.049	0.049	< 0.047	0.047	< 0.047	0.047	< 0.049	0.049	< 0.050	0.050	< 0.047	0.047	< 0.060	0.06	< 0.065	0.065

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2D continued

Groundwater PCB Compound Analytical Results

60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-4S		23MW-4S		23MW-4S		23MW-4D		23MW-4D		23MW-4D		23 MW-4D		23MW-5		23MW-5		23MW-6		23 MW-6	
Sample Location		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5	
Collection Date	TOGS 1.1.1 WQ/GA Table 1	02/01/2024		1/7/2025		2/18/2025		02/01/2024		7/8/2024		1/7/2025		2/19/2025		01/08/2025		2/18/2025		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		GROUND WATER		Ground Water		Ground Water		Ground Water		GROUND WATER		Ground Water		GROUND WATER		Ground Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/l		ug//L		ug/L		ug//L		ug/l	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
PCB-1016	0.09	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1221	0.09	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1232	0.09	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1242	0.09	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1248	0.09	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1254	0.09	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1260	0.09	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1262	~	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049
PCB-1268	~	< 0.050	0.05	< 0.048	0.048	< 0.070	0.070	< 0.047	0.047	< 0.074	0.074	< 0.049	0.049	< 0.049	0.049	< 0.053	0.053	< 0.048	0.048	< 0.055	0.055	< 0.049	0.049

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2E
Groundwater Metal Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-1		23MW-1		23 MW-1		23MW-2		23MW-2		23MW-2		23MW-3		23MW-3		23MW-3	
Sample Location		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3	
Collection Date	TOGS 1.1.1	02/01/2024		1/7/2025		2/19/2025		2/5/2024		1/7/2025		2/18/2025		2/5/2024		01/08/2025		2/18/2025	
Matrix	WQ/GA Table 1	GROUND WATER		Ground Water		Ground Water		Groundwater		Ground Water		Ground Water		Groundwater		Groundwater		Ground Water	
Units		ug/L		ug/L		ug/l		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Metals Total (Undissolved)																			
Aluminum	100	**3480**	20	**279**	20	**53**	20	**49300**	20	**87700**	20	**30**	20	**22100**	20	**445**	20	**30**	20
Antimony	3	**1.7**	3	< 3	3	**2**	2	< 5	5	< 3	3	< 3	3	< 5	5	**8**	5	**5.9**	3
Arsenic - LDL	25	< 4	4	< 4	4	< 4	4	**19**	4	**48**	4	**5**	4	**24**	4	**7**	4	**10**	4
Barium	1,000	**151**	10	**121**	2	**112**	10	**540**	10	**728**	2	**91**	10	**362**	10	**126**	2	**95**	10
Beryllium	3	< 1	1	< 1	1	< 1	1	**3**	1	**7**	1	< 1	1	**2**	1	< 1	1	< 1	1
Cadmium	5	**2**	4	< 1	1	< 4	4	**8**	4	**4**	1	< 4	4	**6**	4	< 1	1	< 4	4
Calcium	~	**196000**	100	**174000**	100	**194000**	100	**197000**	100	**173000**	100	**144000**	10	**200000**	100	**171000**	100	**139000**	10
Chromium	50	**8**	1	< 1	1	< 1	1	**116**	1	**247**	1	< 1	1	**56**	1	**3**	1	**3**	1
Cobalt	~	**4**	5	**3**	2	< 5	5	**33**	5	**90**	2	**1**	5	**22**	5	< 2	2	< 5	5
Copper	200	**14**	5	**1**	5	**1**	5	**130**	5	**240**	5	**2**	5	**56**	5	**10**	5	**5**	5
Iron	300	**6950**	10	**3700**	10	**750**	10	**105000**	10	**221000**	100	**320**	10	**74800**	10	**1020**	10	**40**	10
Lead	25	**30**	1	**1**	1	< 1	1	**149**	1	**457**	1	< 1	1	**324**	1	**6**	1	< 1	1
Magnesium	35,000	**10600**	10	**17000**	10	**8830**	10	**20600**	10	**59200**	10	**8510**	10	**30100**	10	**17900**	10	**13000**	10
Manganese	300	**681**	5	**1500**	1	**500**	5	**1380**	5	**4630**	1	**570**	5	**2300**	5	**32**	1	**6**	5
Mercury	0.70	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	**1.8**	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2
Nickel	100	**7**	4	**4**	1	**3**	4	**91**	4	**224**	1	**4**	4	**54**	4	**4**	1	**2**	4
Potassium	~	**20700**	1000	**23700**	1000	**18400**	1000	**43000**	1000	**36800**	1000	**26800**	1000	**44200**	1000	**51100**	1000	**39600**	1000
Selenium	10	< 10	10	< 10	10	< 4	4	< 2	2	< 10	10	**3**	10	< 20	20	**26**	10	**37**	10
Silver	50	< 5	5	< 1	1	< 5	5	< 5	5	< 1	1	< 5	5	< 5	5	< 1	1	< 5	5
Sodium	20,000	**66600**	1000	**93400**	1000	**63500**	1000	**182000**	1000	**211000**	1000	**108000**	1000	**97500**	1000	**71400**	1000	**54200**	1000
Thallium	0.50	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 5	5	**0.8**	0.5	< 0.5	0.5	< 5	5	< 0.5	0.5	< 0.5	0.5
Vanadium	~	**13**	10	**1**	2	**1**	10	**174**	10	**381**	2	**2**	10	**107**	10	**17**	2	**13**	10
Zinc	5,000	**44**	10	**40**	4	**14**	10	**232**	10	**617**	4	**8**	10	**331**	10	**6**	4	**1**	10
Metals Dissolved																			
Aluminum (Dissolved)	100	**29**	11	**28**	11	< 11	11	**180**	11	**14**	11	< 11	11	**31**	11	< 11	11	< 11	11
Antimony (Dissolved)-LDL	3	**1.4**	0.6	< 3	3	< 3	3	< 3	3	< 3	3	< 0.6	0.6	< 3	3	< 5	5	< 0.6	0.6
Arsenic, (Dissolved)	25	< 3	3	< 4	4	< 3	3	**4**	3	< 4	4	**5**	3	**10**	3	**8**	4	**11**	3
Barium (Dissolved)	1,000	**113**	11	**110**	2	**105**	11	**131**	11	**115**	2	**86**	11	**63**	11	**115**	2	**88**	11
Beryllium (Dissolved)	3	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1
Cadmium (Dissolved)	5	< 4	4	< 1	1	< 4	4	< 4	4	< 1	1	< 4	4	< 4	4	< 1	1	< 4	4
Calcium (Dissolved)	~	**170000**	10	**171000**	110	**162000**	10	**184000**	110	**126000**	10	**170000**	110	**140000**	10	**160000**	10	**152000**	10
Chromium (Dissolved)	50	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	**6**	1
Cobalt, (Dissolved)	~	**1**	5	**2**	1	**1**	5	< 5	5	**1**	1	< 5	5	< 5	5	< 1	1	< 5	5
Copper, (Dissolved)	200	< 5	5	**1**	5	**1**	5	< 5	5	**6**	5	**3**	5	< 5	5	**8**	5	**6**	5
Iron, (Dissolved)	300	**20**	10	**13**	11	**10**	10	**570**	10	**12**	11	< 10	10	**60**	10	**18**	11	**20**	10
Lead (Dissolved)	25	< 2	2	**1**	2	< 2	2	< 2	2	< 2	2	< 2	2	< 2	2	< 2	2	< 2	2
Magnesium (Dissolved)	35,000	**9760**	10	**17400**	10	**8380**	10	**10200**	10	**30400**	10	**9600**	10	**18600**	10	**17100**	10	**13900**	10
Manganese, (Dissolved)	300	**646**	5	**1470**	1	**463**	5	**700**	5	**1470**	1	**568**	5	**12**	5	**15**	1	**3**	5
Mercury (Dissolved)	0.70	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2
Nickel, (Dissolved)	100	**3**	4	**3**	1	**3**	4	< 4	4	**3**	1	**3**	4	**7**	4	**3**	1	< 4	4
Potassium (Dissolved)	~	**19900**	1100	**21800**	1100	**18000**	1100	**39100**	1100	**23600**	1100	**28200**	1100	**39800**	1100	**53200**	1100	**39300**	1100
Selenium (Dissolved)-LDL	10	< 2	2	< 10	10	< 10	10	< 17	17	< 10	10	< 4	4	< 43	43	**27**	11	**4**	4
Silver (Dissolved)	50	< 5	5	< 1	1	< 5	5	< 5	5	< 1	1	< 5	5	< 5	5	< 1	1	< 5	5
Sodium (Dissolved)	20,000	**64900**	1100	**86700**	1100	**61600**	1100	**184000**	1100	**200000**	1100	**112000**	1100	**98700**	1100	**72800**	1100	**53800**	1100
Thallium (Dissolved)	0.50	< 0.3	0.3	< 0.5	0.5	< 0.5	0.5	< 5	5	< 0.5	0.5	< 0.5	0.5	< 5	5	< 0.5	0.5	< 0.5	0.5
Vanadium, (Dissolved)	~	**5**	11	< 2	2	**1**	11	**3**	11	**5**	2	< 11	11	**17**	11	**16**	2	**13**	11
Zinc, (Dissolved)	5,000	**14**	11	**28**	2	**10**	11	**5**	11	**2**	2	**8**	11	< 11	11	< 2	2	< 11	11
Miscellaneous/Inorganics (ug/l)																			
Alkalinity-CaCO3	~	NT		**587000**	100000	**397000**	20000	NT		**337000**	20000	**392000**	20000	NT		**214000**	20000	**262000**	20000
Carbon Dioxide	~	NT		NT		**88900**	3000	NT		NT		**97600**	3000	NT		NT		**9880**	3000
Chloride	250,000	NT		**157000**	25000	**52800**	5000	NT		**309000**	25000	**116000**	10000	NT		**44000**	5000	**55700**	5000
Ethane	~	NT		NT		<14	14	NT		NT		<14	14	NT		NT		<14	14
Ethene	~	NT		NT		<17	17	NT		NT		<17	17	NT		NT		<17	17
Methane	~	NT		NT		**5.5**	7.0	NT		NT		**18**	7.0	NT		NT		**2.1**	7.0
Nitrate as Nitrogen	10,000	NT		< 50	50	**190**	50	NT		< 50	50	**80**	50	NT		**1480**	50	**5960**	100
Sulfate	250,000	NT		**189000**	25000	**150000**	25000	NT		**116000**	25000	**192000**	25000	NT		**375000**	50000	**388000**	50000
Sulfide	~	NT		NT		< 50	50	NT		NT		< 50	50	NT		< 50	50	< 50	50
Total Organic Carbon	~	NT		NT		**2200**	1000	NT		NT		**3200**	1000	NT		NT		**5300**	1000
Miscellaneous/Inorganics (various units)																			
pH (pH units)	~	NT		**7.4**	1.00	NT		NT		**7.62**	1.00	NT		NT		**8.03**	1	NT	
Redox Potential (mV)	~	NT		**201**		NT		NT		**217**		NT		NT		**113**		NT	
Total Undissolved Metals	~	305,285.70		313,750		286,166.00		599,775.00		796,375.60		288,346.00		472,344.00		313,110.00		246,047.90	
Total Dissolved Metals	~	265,392.40		298,556		250,574.00		418,893.00		381,628.00		320,473.00		297,300.00		303,310.00		259,151.00	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

NT = Not Tested

Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards

Bolded values exceed the RL

ug/L...micrograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2E continued
Groundwater Metal Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID		23MW-4S		23MW-4S		23MW-4S		23MW-4D		23MW-4D		23MW-4D		23 MW-4D		23MW-5		23MW-5		23MW-6		23 MW-6	
Sample Location		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5	
Collection Date	TOGS 1.1.1	02/01/2024		1/7/2025		2/18/2025		02/01/2024		7/8/2024		1/7/2025		2/19/2025		01/08/2025		2/18/2025		01/08/2025		2/18/2025	
Matrix	WQ/GA Table 1	GROUND WATER		Ground Water		Ground Water		GROUND WATER		Ground Water		Ground Water		Ground Water		GROUND WATER		Ground Water		GROUND WATER		Ground Water	
Units		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug//L		ug/L		ug//L		ug/l	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Metals Total (Undissolved)																							
Aluminum	100	**33800**	20	**11000**	20	< 20	20	**9800**	20	**137000**	200	**359000**	2000	**62**	20	**1390**	200	**126**	20	**12200**	20	**16**	20
Antimony	3	**3.9**	3	< 3	3	< 3	3	< 3	3	< 3	3	**21**	3	< 2	2	< 5	5	**3.3**	3	< 5	5	< 2	2
Arsenic - LDL	25	**21**	4	**9**	4	**4**	4	**10**	4	**55**	4	**146**	4	< 4	4	< 4	4	**5**	4	**7**	4	< 4	4
Barium	1,000	**539**	10	**248**	2	**82**	10	**224**	10	**1480**	2	**3520**	2	**44**	10	**105**	2	**45**	10	**719**	2	**91**	10
Beryllium	3	**3**	1	< 1	1	< 1	1	< 1	1	**7**	1	**18**	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1
Cadmium	5	**8**	4	**1**	1	< 4	4	**2**	4	**13**	1	**14**	1	< 4	4	< 1	1	< 4	4	**1**	1	**1**	4
Calcium	~	**329000**	100	**412000**	100	**206000**	100	**356000**	1000	**422000**	100	**660000**	100	**251000**	100	**189000**	100	**488000**	100	**532000**	100	**211000**	100
Chromium	50	**96**	1	**28**	1	< 1	1	**18**	1	**388**	1	**901**	1	< 1	1	**6**	1	**3**	1	**41**	1	< 1	1
Cobalt	~	**30**	5	**10**	2	< 5	5	**6**	5	**117**	2	**305**	2	< 5	5	< 2	2	< 5	5	**8**	2	< 5	5
Copper	200	**192**	5	**46**	5	**4**	5	**16**	5	**370**	5	**882**	5	< 5	5	**8**	5	**7**	5	**47**	5	**1**	5
Iron	300	**163000**	10	**67500**	10	**15700**	10	**28900**	10	**359000**	100	**1010000**	100	**5770**	10	**8260**	10	**180**	10	**19500**	10	**4670**	10
Lead	25	**910**	1	**164**	1	< 1	1	**23**	1	**606**	1	**1410**	1	< 1	1	**65**	1	**5**	1	**399**	1	**11**	1
Magnesium	35,000	**28100**	10	**34400**	10	**16600**	10	**77400**	10	**181000**	100	**344000**	100	**58000**	10	**31500**	10	**40100**	10	**54200**	10	**31300**	10
Manganese	300	**2770**	5	**2940**	1	**1500**	5	**1830**	5	**5880**	1	**15800**	1	**1010**	5	**1550**	1	**27**	5	**980**	1	**2060**	5
Mercury	0.70	< 0.2	0.2	**0.2**	0.2	< 0.2	0.2	**0.4**	0.2	< 0.2	0.2	**11.2**	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	**0.3**	0.2	< 0.2	0.2
Nickel	100	**72**	4	**42**	1	**5**	4	**26**	4	**316**	1	**776**	1	**14**	4	**9**	1	**8**	4	**37**	1	**6**	4
Potassium	~	**28300**	1000	**20600**	1000	**14700**	1000	**27000**	10000	**61000**	10000	**117000**	10000	**14900**	1000	**18400**	1000	**10100**	100	**15900**	1000	**17400**	1000
Selenium	10	< 10	10	< 10	10	< 10	10	< 10	10	< 10	10	< 10	10	< 8	8	< 0.010	10	**215**	10	**94**	10	< 8	8
Silver	50	< 5	5	< 1	1	< 5	5	< 5	5	< 1	1	< 10	10	< 5	5	< 1	1	< 5	5	< 1	1	< 5	5
Sodium	20,000	**92800**	1000	**82800**	1000	**68500**	1000	**362000**	10000	**614000**	10000	**835000**	10000	**231000**	1000	**43900**	100	**51200**	1000	**41600**	100	**51500**	1000
Thallium	0.50	**1**	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	**1.80**	0.5	**4.1**	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5
Vanadium	~	**160**	10	**46**	2	**2**	10	**23**	10	**422**	2	**1080**	2	**1**	10	**9**	2	**2**	10	**46**	2	**1**	10
Zinc	5,000	**809**	10	**181**	4	**9**	10	**68**	10	**1200**	4	**3180**	4	**5**	10	**34**	4	**318**	10	**474**	4	**46**	10
Metals Dissolved																							
Aluminum (Dissolved)	100	**26**	11	**19**	11	< 11	11	**407**	11	**47**	20	**21**	11	< 11	11	< 11	11	< 11	11	< 11	11	< 11	11
Antimony (Dissolved)-LDL	3	**0.2**	0.6	< 3	3	< 0.6	0.6	**1.1**	0.6	< 3	3	< 3	3	< 3	3	< 5	5	**3.3**	0.6	< 5	5	< 3	3
Arsenic, (Dissolved)	25	< 3	3	< 4	4	< 3	3	**11**	3	**3**	4	< 4	4	< 3	3	**6**	4	**6**	3	< 4	4	< 3	3
Barium (Dissolved)	1,000	**139**	11	**79**	2	**52**	11	**129**	11	**69**	2	**38**	2	**36**	11	**57**	2	**36**	11	**73**	2	**84**	11
Beryllium (Dissolved)	3	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1
Cadmium (Dissolved)	5	< 4	4	< 1	1	< 4	4	**1**	4	< 1	1	< 1	1	< 4	4	< 1	1	< 4	4	< 1	1	< 4	4
Calcium (Dissolved)	~	**298000**	110	**394000**	110	**184000**	110	**373000**	110	**388000**	110	**323000**	110	**239000**	110	**518000**	110	**482000**	110	**179000**	110	**213000**	110
Chromium (Dissolved)	50	< 1	1	< 1	1	< 1	1	**2**	1	< 1	1	< 1	1	< 1	1	< 1	1	**3**	1	< 1	1	< 1	1
Cobalt, (Dissolved)	~	**1**	5	**2**	1	< 5	5	**1**	5	< 1	1	**1**	1	< 5	5	**2**	1	< 5	5	< 1	1	< 5	5
Copper, (Dissolved)	200	< 5	5	**4**	5	< 5	5	**4**	5	< 5	5	**2**	5	< 5	5	**5**	5	**7**	5	< 5	5	**2**	5
Iron, (Dissolved)	300	**140**	10	**78**	11	**20**	10	**16900**	10	**57**	11	**82**	11	**30**	10	**22**	11	< 10	10	**93**	11	**100**	10
Lead (Dissolved)	25	< 2	2	**2**	2	< 2	2	**18**	2	< 2	2	**3**	2	< 2	2	**3**	2	< 2	2	**3**	2	< 2	2
Magnesium (Dissolved)	35,000	**19600**	10	**31000**	10	**15800**	10	**71400**	10	**130000**	110	**110000**	110	**56300**	10	**49000**	10	**43800**	10	**29400**	10	**32700**	10
Manganese, (Dissolved)	300	**1030**	5	**2460**	1	**1300**	5	**1830**	5	**1210**	1	**1330**	1	**981**	5	**651**	1	**25**	5	**1510**	1	**2060**	5
Mercury (Dissolved)	0.70	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2	< 0.2	0.2
Nickel, (Dissolved)	100	**10**	4	**22**	1	**3**	4	**11**	4	**40**	1	**46**	1	**14**	4	**18**	1	**7**	4	**4**	1	**7**	4
Potassium (Dissolved)	~	**23800**	1100	**17700**	1100	**14000**	1100	**25000**	1100	**20700**	1100	**18600**	1100	**14700**	1100	**15200**	1100	**10200**	100	**19300**	1100	**17000**	1100
Selenium (Dissolved)-LDL	10	< 2	2	< 10	10	< 4	4	< 4	4	< 10	10	< 10	10	< 10	10	**105**	11	< 4	4	< 11	11	< 10	10
Silver (Dissolved)	50	< 5	5	< 1	1	< 5	5	< 5	5	< 1	1	< 1	1	< 5	5	< 1	1	< 5	5	< 1	1	< 5	5
Sodium (Dissolved)	20,000	**88900**	1100	**77000**	1100	**63600**	1100	**360000**	1100	**773000**	11000	**664000**	11000	**226000**	1100	**41400**	110	**52000**	1100	**43100**	110	**50900**	110
Thallium (Dissolved)	0.50	< 0.3	0.3	< 0.5	0.5	< 0.5	0.5	< 0.3	0.3	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5	< 0.5	0.5
Vanadium, (Dissolved)	~	**2**	11	< 2	2	< 11	11	**9**	11	**4**	2	< 2	2	< 11	11	< 2	2	< 11	11	< 2	2	**1**	11
Zinc, (Dissolved)	5,000	**17**	11	**13**	2	**2**	11	**43**	11	**8**	2	**7**	2	**2**	11	**96**	2	**328**	11	**8**	2	**29**	11
Miscellaneous/Inorganics (ug/l)																							
Alkalinity-CaCO3	~	NT		**347000**	100000	**308000**	20000	NT		NT		**608000**	100000	**529000**	20000	**341000**	20000	**339000**	20000	**288000**	20000	**300000**	20000
Carbon Dioxide	~	NT		NT		**90800**	3000	NT		NT		NT		**114000**	3000	NT		**65200**	3000	NT		**74000**	6000
Chloride	250,000	NT		**84900**	10000	**108000**	10000	NT		NT		**78200**	5000	**118000**	10000	**38600**	5000	**176000**	25000	**108000**	10000	**131000**	10000
Ethane	~	NT		NT		**21**	14	NT		NT		NT		**4**	14	NT		<14	14	NT		<14	14
Ethene	~	NT		NT		**41**	17	NT		NT		NT		**21**	17	NT		<17	17	NT		<17	17
Methane	~	NT		NT		**140**	7	NT		NT		NT		**3,000**	7.0	NT		<7.0	7.0	NT		**58**	7.0
Nitrate as Nitrogen	10,000	NT		< 50	50	< 50	50	NT		NT		< 50	50	< 0.05	50	**480**	50	**1490**	50	< 50	50	< 50	50
Sulfate	250,000	NT		**757000**	125000	**231000**	25000	NT		NT		**1250000**	125000	**541000**	50000	**1080000**	125000	**984000**	125000	**206000**	25000	**328000**	25000
Sulfide	~	NT		NT		< 50	50	NT		NT		NT		< 50	50	< 50	50	< 50	50	**60**	50	< 50	50
Total Organic Carbon	~	NT		NT		**4000**	1000	NT		NT		NT		**5000**	1000	NT		**7000**	1000	NT		**4300**	1000
Miscellaneous/Inorganics (various units)																							
pH (pH units)	~	NT		**7.11**	1.00	NT		NT		NT		**7.68**	1.00	NT		**7.32**	1	NT		**7.05**	1	NT	
Redox Potential (mV)	~	NT		**175**		NT		NT		NT		**189**		NT		**192**		NT		**173**		NT	
Total Undissolved Metals	~	680,614.90		632,015.20		323,106.00		863,346.40		1,784,855.80		3,353,068.30		561,806.00		262,736.00		590,337.30		678,253.30		318,103.00	
Total Dissolved Metals	~	431,665.20		522,379.00		278,777.00		848,767.10		1,313,138.00		1,117,130.00		537,063.00		624,565.00		588,415.30		272,491.00		315,883.00	

NOTES:
Any Regulatory Exceedences are color coded by Regulation
RL = Reporting limit
NT = Not Tested
Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards
Bolded values exceed the RL
ug/L...micrograms per liter
~=this indicates that no regulatory limit has been established for this analyte

Table 2F
Groundwater PFAS Compound Analytical Results
60-66 Gerry Street, Brooklyn, New York

Sample ID	NYSDEC PFAS April 2023	23MW-1		23MW-1		23 MW-1		23MW-2		23MW-2		23MW-2		23MW-3		23MW-3		23MW-3	
Sample Location		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3		Block 2269, Lot 3	
Collection Date		02/01/2024		1/7/2025		2/19/2025		2/5/2024		1/7/2025		2/18/2025		2/5/2024		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		Groundwater		Ground Water		Ground Water		Groundwater		Groundwater		Ground Water	
Units		ng/L		ng/L		ng/l		ng/L		ng/L		ng/l		ng/L		ng/L		ng/l	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
11Cl-PF3OUdS	~	< 9.04	9.04	< 7.65	7.65	< 7.67	7.67	< 8.30	8.30	< 6.70	6.70	< 8.30	8.30	< 15.1	15.1	< 7.34	7.34	< 8.54	8.54
1H,1H,2H,2H-Perfluorodecanesulfonic acid	~	< 9.19	9.19	< 7.77	7.77	< 7.79	7.79	< 8.43	8.43	< 6.81	6.81	< 8.44	8.44	< 15.4	15.4	< 7.45	7.45	< 8.68	8.68
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	~	< 8.97	8.97	< 7.59	7.59	< 7.61	7.61	< 8.23	8.23	< 6.65	6.65	< 8.24	8.24	< 15.0	15.0	< 7.28	7.28	< 8.47	8.47
1H,1H,2H,2H-Perfluorooctanesulfonic acid	~	< 9.09	9.09	< 7.69	7.69	< 7.71	7.71	< 8.34	8.34	< 6.74	6.74	< 8.35	8.35	< 15.2	15.2	< 7.38	7.38	< 8.59	8.59
3:3FTCA	~	< 5.98	5.98	< 5.06	5.06	< 5.07	5.07	< 5.49	5.49	< 4.43	4.43	< 5.49	5.49	< 10.0	10.0	< 4.85	4.85	< 5.65	5.65
5:3FTCA	~	< 29.9	29.9	< 25.3	25.3	< 25.4	25.4	< 27.4	27.4	< 22.2	22.2	< 27.5	27.5	< 50.0	50.0	< 24.3	24.3	< 28.2	28.2
7:3FTCA	~	< 29.9	29.9	< 25.3	25.3	< 25.4	25.4	< 27.4	27.4	< 22.2	22.2	< 27.5	27.5	< 50.0	50.0	< 24.3	24.3	< 28.2	28.2
9Cl-PF3ONS	~	< 8.95	8.95	< 7.57	7.57	< 7.59	7.59	< 8.21	8.21	< 6.63	6.63	< 8.22	8.22	< 15.0	15.0	< 7.26	7.26	< 8.45	8.45
ADONA	~	< 9.04	9.04	< 7.65	7.65	< 7.67	7.67	< 8.30	8.30	< 6.70	6.70	< 8.30	8.30	< 15.1	15.1	< 7.34	7.34	< 8.54	8.54
HFPO-DA	~	< 9.57	9.57	< 8.10	8.10	< 8.12	8.12	< 8.78	8.78	< 7.09	7.09	< 8.79	8.79	< 16.0	16.0	< 7.76	7.76	< 9.04	9.04
NEtFOSA	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
NEtFOSAA	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
NEtFOSE	~	< 23.9	23.9	< 20.2	20.2	< 20.3	20.3	< 21.9	21.9	< 17.7	17.7	< 22.0	22.0	< 40.0	40.0	< 19.4	19.4	< 22.6	22.6
NFDHA	~	< 4.79	4.79	< 4.05	4.05	< 4.06	4.06	< 4.39	4.39	< 3.54	3.54	< 4.39	4.39	< 8.00	8.00	< 3.88	3.88	< 4.52	4.52
NMeFOSA	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
NMeFOSAA	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
NMeFOSE	~	< 23.9	23.9	< 20.2	20.2	< 20.3	20.3	< 21.9	21.9	< 17.7	17.7	< 22.0	22.0	< 40.0	40.0	< 19.4	19.4	< 22.6	22.6
Perfluoro-1-decanesulfonic acid (PFDS)	~	< 2.31	2.31	< 1.95	1.95	< 1.96	1.96	< 2.12	2.12	< 1.71	1.71	< 2.12	2.12	< 3.86	3.86	< 1.87	1.87	< 2.18	2.18
Perfluoro-1-heptanesulfonic acid (PFHpS)	~	< 2.28	2.28	< 1.93	1.93	< 1.94	1.94	< 2.10	2.10	< 1.69	1.69	< 2.10	2.10	< 3.82	3.82	< 1.85	1.85	< 2.16	2.16
Perfluoro-1-octanesulfonamide (FOSA)	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
Perfluoro-n-butanoic acid (PFBA)	~	**11.4**	9.57	**3.61**	1.79	**3.42**	1.80	**2.95**	1.94	**4.27**	1.57	**3.23**	1.94	**3.85**	3.54	< 7.76	7.76	**3.09**	2.00
Perfluorobutanesulfonic acid (PFBS)	~	**4.54**	2.12	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	**3.83**	1.72	< 2.26	2.26
Perfluorodecanoic acid (PFDA)	~	< 2.39	2.39	< 1.96	1.96	< 1.97	1.97	< 2.13	2.13	< 1.72	1.72	< 2.13	2.13	< 3.88	3.88	< 1.94	1.94	< 2.19	2.19
Perfluorododecane Sulfonic Acid (PFDoDS)	~	< 2.32	2.32	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.88	1.88	< 2.26	2.26
Perfluorododecanoic acid (PFDoA)	~	< 2.39	2.39	**8.3**	2.02	**5.49**	2.03	**6.97**	2.19	**8.92**	1.77	**9.89**	2.20	**18.4**	4.00	< 1.94	1.94	**4.96**	2.26
Perfluoroheptanoic acid (PFHpA)	~	**7.08**	2.39	**2.27**	1.85	**0.823**	1.86	**2.7**	2.01	**2.84**	1.62	**2.52**	2.01	**4.95**	3.66	**8.54**	1.94	**1.81**	2.07
Perfluorohexanesulfonic Acid (PFHxS)	~	**1.74**	2.19	**12**	2.02	**6.49**	2.03	**8.35**	2.19	**15**	1.77	**14.3**	2.20	**24**	4.00	**2.43**	1.78	**11.5**	2.26
Perfluorohexanoic acid (PFHxA)	~	**10.1**	2.39	**14.5**	8.10	**9.73**	8.12	**13.3**	8.78	**18.7**	7.09	**16.2**	8.79	< 16.0	16.0	**13.4**	1.94	< 9.04	9.04
Perfluorononanesulfonic Acid (PFNS)	~	< 2.30	2.3	< 1.94	1.94	< 1.95	1.95	< 2.11	2.11	< 1.70	1.70	< 2.11	2.11	< 3.84	3.84	< 1.86	1.86	< 2.17	2.17
Perfluorononanoic acid (PFNA)	~	**0.858**	2.39	**0.723**	2.02	**0.619**	2.03	**1.57**	2.19	**2.24**	1.77	**1.07**	2.20	**1.54**	4.00	**0.992**	1.94	< 2.26	2.26
Perfluorooctanesulfonic Acid (PFOS)	2.7	**4.26**	2.23	**2.29**	1.88	< 1.89	1.89	**1.18**	2.04	**19.3**	1.65	**1.18**	2.04	**5.61**	3.72	**6.8**	1.81	**2.47**	2.10
Perfluorooctanoic acid (PFOA)	6.7	**30.6**	2.39	**27.1**	2.02	**28.1**	2.03	**45.6**	2.19	**24.3**	1.77	**51.2**	2.20	**39.1**	4.00	**19.2**	1.94	**15.7**	2.26
Perfluoropentanesulfonic Acid (PFPeS)	~	< 2.25	2.25	< 1.90	1.90	< 1.91	1.91	< 2.06	2.06	< 1.67	1.67	< 2.06	2.06	< 3.76	3.76	< 1.82	1.82	< 2.12	2.12
Perfluoropentanoic acid (PFPeA)	~	**13.7**	4.79	**12**	4.05	**9.98**	4.06	**10.3**	4.39	**16.9**	3.54	**14.7**	4.39	**24.6**	8.00	**13.8**	3.88	**12.3**	4.52
Perfluorotetradecanoic acid (PFTA)	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
Perfluorotridecanoic acid (PFTrDA)	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
Perfluoroundecanoic acid (PFUnA)	~	< 2.39	2.39	< 2.02	2.02	< 2.03	2.03	< 2.19	2.19	< 1.77	1.77	< 2.20	2.20	< 4.00	4.00	< 1.94	1.94	< 2.26	2.26
PFEESA	~	< 4.26	4.26	< 3.60	3.60	< 3.61	3.61	< 3.91	3.91	< 3.15	3.15	< 3.91	3.91	< 7.12	7.12	< 3.45	3.45	< 4.02	4.02
PFMBA	~	< 4.79	4.79	< 4.05	4.05	< 4.06	4.06	< 4.39	4.39	< 3.54	3.54	< 4.39	4.39	< 8.00	8.00	< 3.88	3.88	< 4.52	4.52
PFMPA	~	< 4.79	4.79	< 4.05	4.05	< 4.06	4.06	< 4.39	4.39	< 3.54	3.54	< 4.39	4.39	< 8.00	8.00	< 3.88	3.88	< 4.52	4.52

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards

Bolded values exceed the RL

ng/L...nanograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Table 2F continued

Groundwater PFAS Compound Analytical Results

60-66 Gerry Street, Brooklyn, New York

Sample ID	NYSDEC PFAS April 2023	23MW-4S		23MW-4S		23MW-4S		23MW-4D		23MW-4D		23MW-4D		23 MW-4D		23MW-5		23MW-5		23MW-6		23 MW-6	
Sample Location		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5		Block 2269, Lot 5	
Collection Date		02/01/2024		1/7/2025		2/18/2025		02/01/2024		7/8/2024		1/7/2025		2/19/2025		01/08/2025		2/18/2025		01/08/2025		2/18/2025	
Matrix		GROUND WATER		Ground Water		Ground Water		GROUND WATER		Ground Water		Ground Water		Ground Water		GROUND WATER		Ground Water		GROUND WATER		Ground Water	
Units		ng/L		ng/L		ng/l		ng/L		ng/L		ng/L		ng/l		ng/L		ng/l		ng/L		ng/l	
Compound		Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
11Cl-PF3OUdS	~	< 8.56	8.56	< 8.09	8.09	< 8.59	8.59	< 7.85	7.85	< 8.65	8.65	< 7.86	7.86	< 7.46	7.46	< 7.89	7.89	< 7.75	7.75	< 7.67	7.67	< 7.42	7.42
1H,1H,2H,2H-Perfluorodecanesulfonic acid	~	< 8.69	8.69	< 8.21	8.21	< 8.73	8.73	< 7.97	7.97	< 8.79	8.79	< 7.98	7.98	< 7.58	7.58	< 8.02	8.02	< 7.88	7.88	< 7.79	7.79	< 7.54	7.54
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	~	< 8.49	8.49	< 8.02	8.02	< 8.52	8.52	< 7.78	7.78	< 8.59	8.59	< 7.79	7.79	< 7.40	7.40	< 7.83	7.83	< 7.69	7.69	< 7.61	7.61	< 7.36	7.36
1H,1H,2H,2H-Perfluorooctanesulfonic acid	~	< 8.60	8.6	< 8.13	8.13	< 8.63	8.63	< 7.89	7.89	**40.9**	8.70	**12.6**	7.90	< 7.50	7.50	< 7.94	7.94	< 7.79	7.79	< 7.71	7.71	< 7.46	7.46
3:3FTCA	~	< 5.66	5.66	< 5.35	5.35	< 5.68	5.68	< 5.19	5.19	< 5.72	5.72	< 5.20	5.20	< 4.93	4.93	< 5.22	5.22	< 5.13	5.13	< 5.07	5.07	< 4.91	4.91
5:3FTCA	~	< 28.3	28.3	< 26.7	26.7	< 28.4	28.4	< 25.9	25.9	< 28.6	28.6	< 26.0	26.0	< 24.7	24.7	< 26.1	26.1	< 25.6	25.6	< 25.4	25.4	< 24.5	24.5
7:3FTCA	~	< 28.3	28.3	< 26.7	26.7	< 28.4	28.4	< 25.9	25.9	< 28.6	28.6	< 26.0	26.0	< 24.7	24.7	< 26.1	26.1	< 25.6	25.6	< 25.4	25.4	< 24.5	24.5
9Cl-PF3ONS	~	< 8.47	8.47	< 8.00	8.00	< 8.50	8.50	< 7.76	7.76	< 8.56	8.56	< 7.77	7.77	< 7.38	7.38	< 7.81	7.81	< 7.67	7.67	< 7.59	7.59	< 7.34	7.34
ADONA	~	< 8.56	8.56	< 8.09	8.09	< 8.59	8.59	< 7.85	7.85	< 8.65	8.65	< 7.86	7.86	< 7.46	7.46	< 7.89	7.89	< 7.75	7.75	< 7.67	7.67	< 7.42	7.42
HFPO-DA	~	< 9.05	9.05	< 8.56	8.56	< 9.09	9.09	< 8.30	8.3	< 9.16	9.16	< 8.31	8.31	< 7.89	7.89	< 8.35	8.35	< 8.21	8.21	< 8.12	8.12	< 7.85	7.85
NEtFOSA	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
NEtFOSAA	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
NEtFOSE	~	< 22.6	22.6	< 21.4	21.4	< 22.7	22.7	< 20.8	20.8	< 22.9	22.9	< 20.8	20.8	< 19.7	19.7	< 20.9	20.9	< 20.5	20.5	< 20.3	20.3	< 19.6	19.6
NFDHA	~	< 4.53	4.53	< 4.28	4.28	< 4.54	4.54	< 4.15	4.15	< 4.58	4.58	< 4.16	4.16	< 3.95	3.95	< 4.18	4.18	< 4.10	4.10	< 4.06	4.06	< 3.93	3.93
NMeFOSA	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
NMeFOSAA	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
NMeFOSE	~	< 22.6	22.6	< 21.4	21.4	< 22.7	22.7	< 20.8	20.8	< 22.9	22.9	< 20.8	20.8	< 19.7	19.7	< 20.9	20.9	< 20.5	20.5	< 20.3	20.3	< 19.6	19.6
Perfluoro-1-decanesulfonic acid (PFDS)	~	< 2.18	2.18	< 2.06	2.06	< 2.19	2.19	< 2.00	2	< 2.21	2.21	< 2.01	2.01	< 1.90	1.90	< 2.02	2.02	< 1.98	1.98	< 1.96	1.96	< 1.89	1.89
Perfluoro-1-heptanesulfonic acid (PFHpS)	~	< 2.16	2.16	< 2.04	2.04	< 2.17	2.17	< 1.98	1.98	**2.59**	2.19	< 1.99	1.99	< 1.88	1.88	< 1.99	1.99	< 1.96	1.96	**1.16**	1.94	< 1.88	1.88
Perfluoro-1-octanesulfonamide (FOSA)	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
Perfluoro-n-butanoic acid (PFBA)	~	**8.99**	9.05	**4.64**	1.89	**2.88**	2.01	**13**	8.3	**6.51**	9.16	**1.24**	1.84	**6.17**	1.75	**13.6**	8.35	**5.21**	1.82	**26.1**	8.12	**6.94**	1.74
Perfluorobutanesulfonic acid (PFBS)	~	**3.14**	2	< 2.14	2.14	< 2.27	2.27	**3.74**	1.84	**2.49**	2.03	< 2.08	2.08	< 1.97	1.97	**4.35**	1.85	< 2.05	2.05	**5.39**	1.8	< 1.96	1.96
Perfluorodecanoic acid (PFDA)	~	< 2.26	2.26	< 2.07	2.07	< 2.20	2.20	< 2.08	2.08	< 2.29	2.29	< 2.02	2.02	< 1.91	1.91	< 2.09	2.09	< 1.99	1.99	< 2.03	2.03	< 1.90	1.90
Perfluorododecane Sulfonic Acid (PFDoDS)	~	< 2.20	2.2	< 2.14	2.14	< 2.27	2.27	< 2.01	2.01	**1.09**	2.22	< 2.08	2.08	< 1.97	1.97	**1.62**	2.03	< 2.05	2.05	< 1.97	1.97	< 1.96	1.96
Perfluorododecanoic acid (PFDoA)	~	< 2.26	2.26	**7.22**	2.14	**6.04**	2.27	< 2.08	2.08	< 2.29	2.29	**4.71**	2.08	**23.1**	1.97	< 2.09	2.09	**8.61**	2.05	< 2.03	2.03	**19.2**	1.96
Perfluoroheptanoic acid (PFHpA)	~	**2.91**	2.26	**2.54**	1.96	**2.91**	2.08	**3.38**	2.08	**6.4**	2.29	**1.84**	1.90	**4.64**	1.81	**16.4**	2.09	**1.46**	1.88	**24.4**	2.03	**4.39**	1.80
Perfluorohexanesulfonic Acid (PFHxS)	~	< 2.07	2.07	**13.5**	2.14	**9.26**	2.27	**1.45**	1.9	**4.97**	2.09	**8.46**	2.08	**63.8**	1.97	**1.91**	1.91	**10.2**	2.05	**4.37**	1.86	**27**	1.96
Perfluorohexanoic acid (PFHxA)	~	**9.27**	2.26	**14.3**	8.56	**8.69**	9.09	**15.1**	2.08	**12.5**	2.29	< 8.31	8.31	**39.2**	7.89	**17.8**	2.09	**8.3**	8.21	**40.4**	2.03	**19.9**	7.85
Perfluorononanesulfonic Acid (PFNS)	~	< 2.17	2.17	< 2.05	2.05	< 2.18	2.18	< 1.99	1.99	< 2.20	2.20	< 2.00	2.00	< 1.89	1.89	< 2.01	2.01	< 1.97	1.97	< 1.95	1.95	< 1.88	1.88
Perfluorononanoic acid (PFNA)	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	**1.21**	2.29	< 2.08	2.08	< 1.97	1.97	**1.66**	2.09	**0.94**	2.05	< 2.03	2.03	< 1.96	1.96
Perfluorooctanesulfonic Acid (PFOS)	2.7	**1.82**	2.11	**0.917**	1.99	**1.11**	2.11	**1.75**	1.93	**3.93**	2.13	< 1.93	1.93	**4.25**	1.84	**10.9**	1.94	**2.22**	1.91	**3.86**	1.89	**2.37**	1.83
Perfluorooctanoic acid (PFOA)	6.7	**5.31**	2.26	**17.3**	2.14	**19.9**	2.27	**6.06**	2.08	**25.3**	2.29	**8.79**	2.08	**43.9**	1.97	**22.5**	2.09	**40.2**	2.05	**41.8**	2.03	**49.3**	1.96
Perfluoropentanesulfonic Acid (PFPeS)	~	< 2.13	2.13	< 2.01	2.01	< 2.14	2.14	< 1.95	1.95	< 2.15	2.15	< 1.95	1.95	**1.09**	1.85	< 1.96	1.96	< 1.93	1.93	**0.78**	1.91	**1.15**	1.85
Perfluoropentanoic acid (PFPeA)	~	**10.2**	4.53	**13.8**	4.28	**8.87**	4.54	**10.6**	4.15	**4.19**	4.58	**7.6**	4.16	**98.3**	3.95	**17.8**	4.18	**8.81**	4.10	**45.8**	4.06	**32.9**	3.93
Perfluorotetradecanoic acid (PFTA)	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
Perfluorotridecanoic acid (PFTrDA)	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
Perfluoroundecanoic acid (PFUnA)	~	< 2.26	2.26	< 2.14	2.14	< 2.27	2.27	< 2.08	2.08	< 2.29	2.29	< 2.08	2.08	< 1.97	1.97	< 2.09	2.09	< 2.05	2.05	< 2.03	2.03	< 1.96	1.96
PFEESA	~	< 4.03	4.03	< 3.81	3.81	< 4.04	4.04	< 3.70	3.7	< 4.08	4.08	< 3.70	3.70	< 3.51	3.51	< 3.72	3.72	< 3.65	3.65	< 3.61	3.61	< 3.49	3.49
PFMBA	~	< 4.53	4.53	< 4.28	4.28	< 4.54	4.54	< 4.15	4.15	< 4.58	4.58	< 4.16	4.16	< 3.95	3.95	< 4.18	4.18	< 4.10	4.10	< 4.06	4.06	< 3.93	3.93
PFMPA	~	< 4.53	4.53	< 4.28	4.28	< 4.54	4.54	< 4.15	4.15	< 4.58	4.58	< 4.16	4.16	< 3.95	3.95	< 4.18	4.18	< 4.10	4.10	< 4.06	4.06	< 3.93	3.93

NOTES:

Any Regulatory Exceedences are color coded by Regulation

RL = Reporting limit

Orange shaded values exceed the NYSDEC TOGS 1.1.1 AWQS Standards

Bolded values exceed the RL

ng/L...nograms per liter

~=this indicates that no regulatory limit has been established for this analyte

Appendix A

Remedial Investigation Report (RIR)

Appendix B

Photographs

Soil Probe and Monitoring Well Installation – December 2024

Soil Probe and Monitoring Well Installation – December 2024

Soil Probe and Monitoring Well Installation – December 2024

Installed Monitoring Well – December 2024

Installed Monitoring Well – December 2024

Installed Monitoring Well – December 2024

60-66 GERRY STREET SITE PHOTOGRAPHS

BCP NUMBER C224396

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.

Monitoring Well Sampling – January 2025

Monitoring Well Sampling – January 2025

Monitoring Well Sampling – January 2025

Monitoring Well Sampling – January 2025

Monitoring Well Sampling – January 2025

Monitoring Well Sampling – January 2025

60-66 GERRY STREET SITE PHOTOGRAPHS

BCP NUMBER C224396

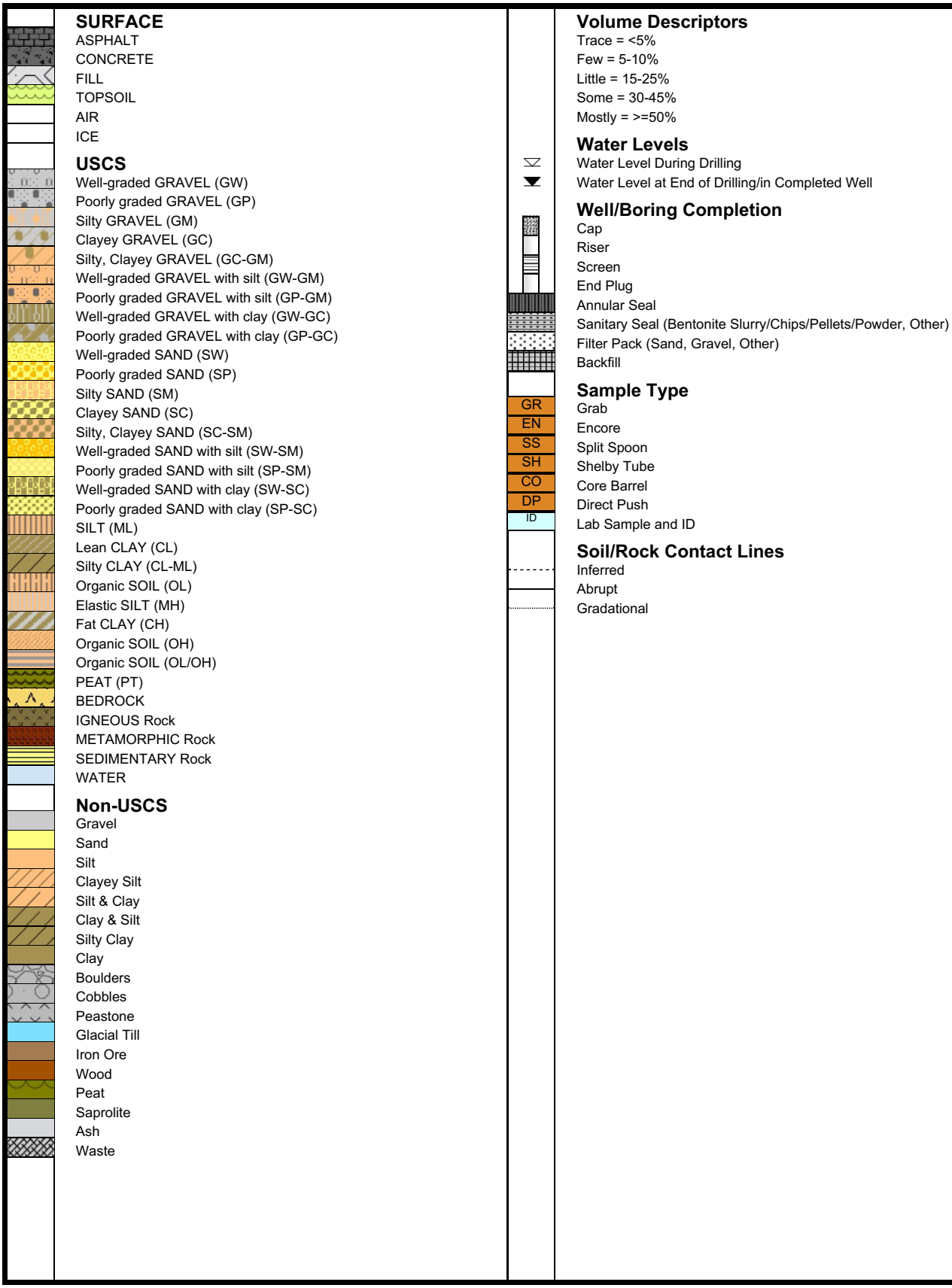
STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.

Appendix C

Monitoring Well Construction Logs and Soil Probe Logs

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

BORING AND WELL LOG LEGEND



SURFACE
ASPHALT
CONCRETE
FILL
TOPSOIL
AIR
ICE

USCS
Well-graded GRAVEL (GW)
Poorly graded GRAVEL (GP)
Silty GRAVEL (GM)
Clayey GRAVEL (GC)
Silty, Clayey GRAVEL (GC-GM)
Well-graded GRAVEL with silt (GW-GM)
Poorly graded GRAVEL with silt (GP-GM)
Well-graded GRAVEL with clay (GW-GC)
Poorly graded GRAVEL with clay (GP-GC)
Well-graded SAND (SW)
Poorly graded SAND (SP)
Silty SAND (SM)
Clayey SAND (SC)
Silty, Clayey SAND (SC-SM)
Well-graded SAND with silt (SW-SM)
Poorly graded SAND with silt (SP-SM)
Well-graded SAND with clay (SW-SC)
Poorly graded SAND with clay (SP-SC)
SILT (ML)
Lean CLAY (CL)
Silty CLAY (CL-ML)
Organic SOIL (OL)
Elastic SILT (MH)
Fat CLAY (CH)
Organic SOIL (OH)
Organic SOIL (OL/OH)
PEAT (PT)
BEDROCK
IGNEOUS Rock
METAMORPHIC Rock
SEDIMENTARY Rock
WATER

Non-USCS
Gravel
Sand
Silt
Clayey Silt
Silt & Clay
Clay & Silt
Silty Clay
Clay
Boulders
Cobbles
Peastone
Glacial Till
Iron Ore
Wood
Peat
Saprolite
Ash
Waste

Volume Descriptors
Trace = <5%
Few = 5-10%
Little = 15-25%
Some = 30-45%
Mostly = >=50%

Water Levels
Water Level During Drilling
Water Level at End of Drilling/in Completed Well

Well/Boring Completion
Cap
Riser
Screen
End Plug
Annular Seal
Sanitary Seal (Bentonite Slurry/Chips/Pellets/Powder, Other)
Filter Pack (Sand, Gravel, Other)
Backfill

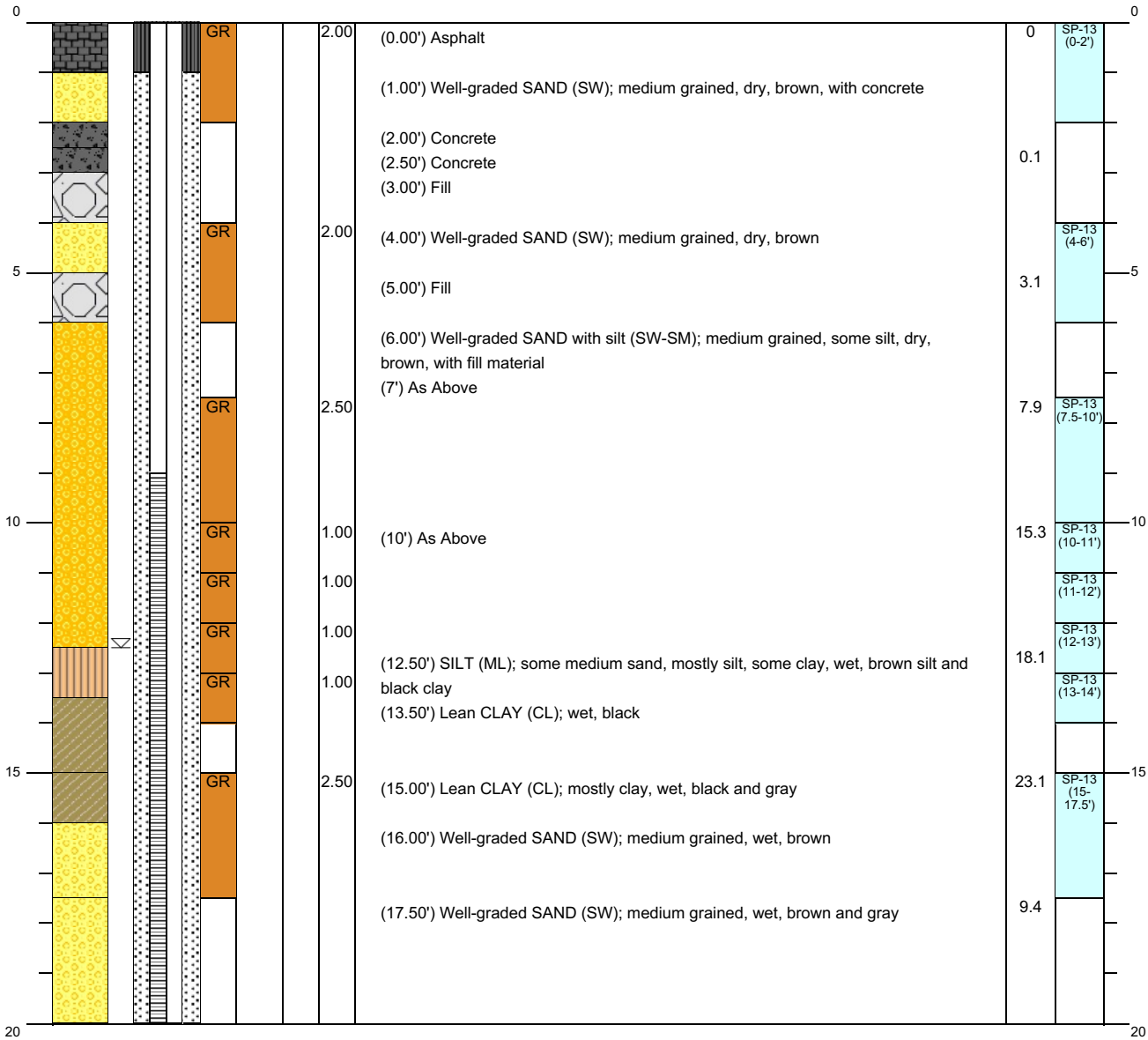
Sample Type
GR Grab
EN Encore
SS Split Spoon
SH Shelby Tube
CO Core Barrel
DP Direct Push
ID Lab Sample and ID

Soil/Rock Contact Lines
Inferred
Abrupt
Gradational

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

Client:	**Galaxy Developers, LLC**	**WELL LOG**	
Project:	**Gerry Street Site C224396**	**Well No.**	**SP-13**
Address:	**60 Gerry Street, Brooklyn, NY**	**Page:**	**1 of 2**

Drilling Start Date:	**1/29/2024**	Boring Depth (ft):	**30**	Well Depth (ft):	**20; 30**
Drilling End Date:	**1/29/2024**	Boring Diameter (in):	**1.5**	Well Diameter (in):	**2**
Drilling Company:	**PG Environmental Services, Inc.**	Sampling Method(s):	**Grab**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**12.5**	Riser Material:	
Drilling Equipment:	**Geoprobe**	DTW After Drilling (ft):	**N/A**	Screen Material:	
Driller:	**PG Environmental Services, Inc.**	Ground Surface Elev. (ft):	**N/A**	Seal Material(s):	**Hydrated Bent.**
Logged By:	**Firat Ataman**	Location (Lat, Long):	**40.70111, -73.94750**	Filter Pack:	**Sand Pack**



NOTES:

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.	Client: Galaxy Developers, LLC	WELL LOG
	Project: Gerry Street Site C224396	Well No. SP-13
	Address: 60 Gerry Street, Brooklyn, NY	Page: 2 of 2

Drilling Start Date:	**1/29/2024**	Boring Depth (ft):	**30**	Well Depth (ft):	**20; 30**
Drilling End Date:	**1/29/2024**	Boring Diameter (in):	**1.5**	Well Diameter (in):	**2**
Drilling Company:	**PG Environmental Services, Inc.**	Sampling Method(s):	**Grab**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**12.5**	Riser Material:	
Drilling Equipment:	**Geoprobe**	DTW After Drilling (ft):	**N/A**	Screen Material:	
Driller:	**PG Environmental Services, Inc.**	Ground Surface Elev. (ft):	**N/A**	Seal Material(s):	**Hydrated Bent.**
Logged By:	**Firat Ataman**	Location (Lat, Long):	**40.70111, -73.94750**	Filter Pack:	**Sand Pack**

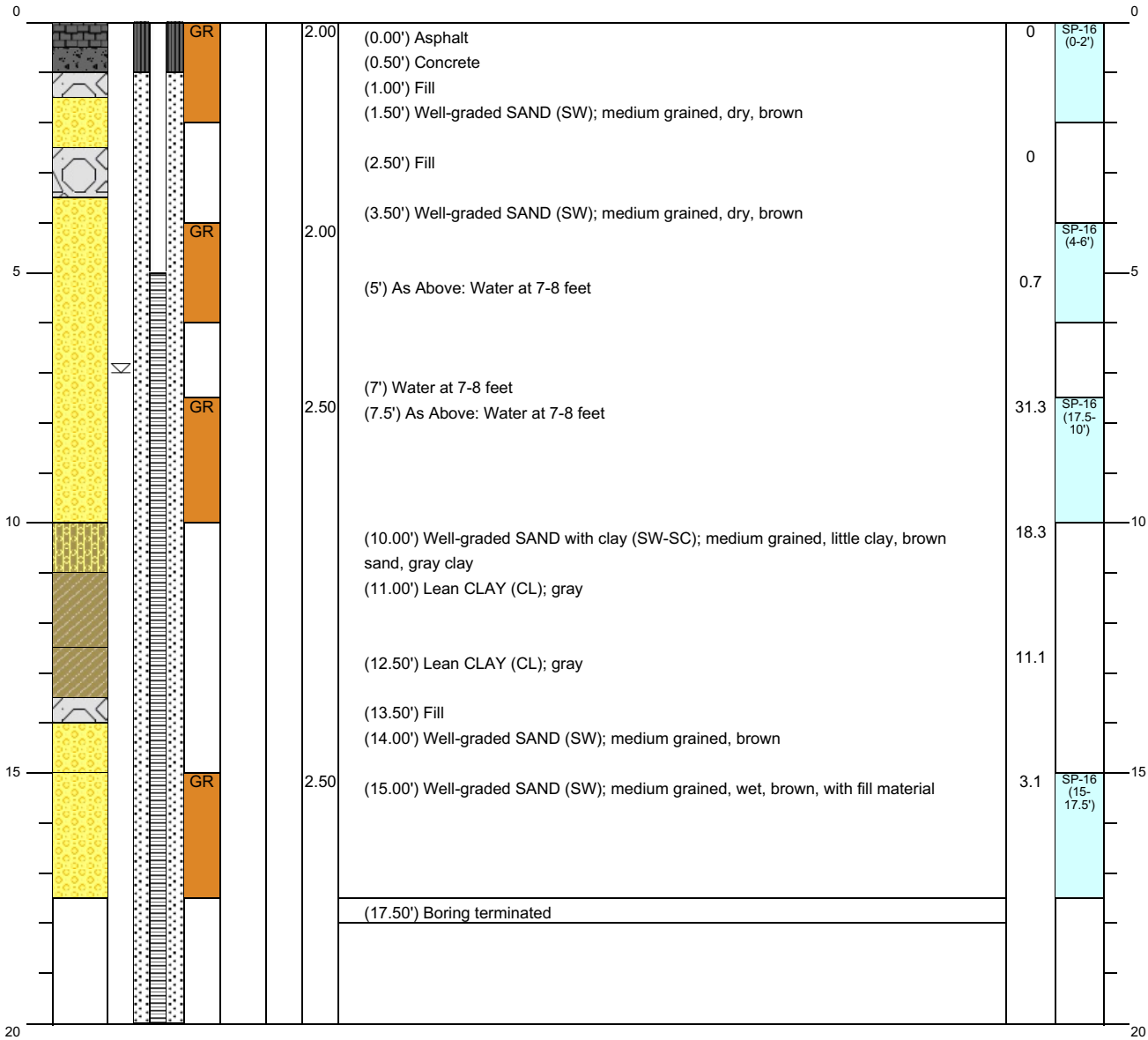
DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT: Sample Type	COLLECT: Time	COLLECT: Blow Counts	COLLECT: Recovery (ft)	SOIL/ROCK VISUAL DESCRIPTION	MEASURE: PID (ppm)	MEASURE: Lab Sample	DEPTH (ft)
20								(20') As Above	1.3		20
								(22.50') Well-graded SAND with silt (SW-SM); fine-medium grained, brown and gray	0.9		
25								(25') As Above	0.1		25
								(27.50') Well-graded SAND with clay (SW-SC); mostly fine grained sand, some clay, gray sand, black and gray clay (28.50') Lean CLAY (CL); black and gray	0		
30								(30.00') Boring terminated			30
35											35
40											40

NOTES:

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

Client:	**Galaxy Developers, LLC**	**WELL LOG**	
Project:	**Gerry Street Site C224396**	**Well No.**	**SP-16**
Address:	**60 Gerry Street, Brooklyn, NY**	**Page:**	**1 of 1**

Drilling Start Date:	**1/29/2024**	Boring Depth (ft):	**17.5**	Well Depth (ft):	**20**
Drilling End Date:	**1/29/2024**	Boring Diameter (in):	**1.5**	Well Diameter (in):	**2**
Drilling Company:	**PG Environmental Services, Inc.**	Sampling Method(s):	**Grab**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**7**	Riser Material:	
Drilling Equipment:	**Geoprobe**	DTW After Drilling (ft):	**N/A**	Screen Material:	
Driller:	**PG Environmental Services, Inc.**	Ground Surface Elev. (ft):	**N/A**	Seal Material(s):	**Hydrated Bent.**
Logged By:	**Firat Ataman**	Location (Lat, Long):	**40.70111, -73.94722**	Filter Pack:	**Sand Pack**



NOTES:

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

Client:	**Galaxy Developers, LLC**	**WELL LOG**	
Project:	**Gerry Street Site C224396**	**Well No.**	**SP-17**
Address:	**60 Gerry Street, Brooklyn, NY**	**Page:**	**1 of 1**

Drilling Start Date:	**1/29/2024**	Boring Depth (ft):	**17.5**	Well Depth (ft):	**20**
Drilling End Date:	**1/29/2024**	Boring Diameter (in):	**1.5**	Well Diameter (in):	**2**
Drilling Company:	**PG Environmental Services, Inc.**	Sampling Method(s):	**Grab**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**7**	Riser Material:	
Drilling Equipment:	**Geoprobe**	DTW After Drilling (ft):	**N/A**	Screen Material:	
Driller:	**PG Environmental Services, Inc.**	Ground Surface Elev. (ft):	**N/A**	Seal Material(s):	**Hydrated Bent.**
Logged By:	**Firat Ataman**	Location (Lat, Long):	**40.70083, -73.94722**	Filter Pack:	**Sand Pack**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT: Sample Type	COLLECT: Time	COLLECT: Blow Counts	COLLECT: Recovery (ft)	SOIL/ROCK VISUAL DESCRIPTION	MEASURE: PID (ppm)	MEASURE: Lab Sample	DEPTH (ft)
0				GR			2.00	(0.00') Asphalt (0.50') Fill	0	SP-17 (0-2')	0
								(1.50') Well-graded SAND (SW); medium grained, dry, brown			
								(2.5') As Above	0		
				GR			2.00			SP-17 (4-6')	
5								(5.00') Fill	0		5
								(6.00') Well-graded SAND (SW); medium grained, wet, brown, Water at 7-8 feet			
								(7') Water at 7-8 feet			
				GR			2.50	(7.50') Fill: Fill Material, Water at 7-8 feet	4.7	SP-17 (7.5-10')	
								(8.50') Lean CLAY (CL); black and gray			
10								(10.00') Fill	21.1		10
								(11.00') Well-graded SAND (SW); medium grained, brown, with fill material			
								(12.5') As Above	18.7		
15				GR			2.50	(15') As Above: Wet	0.9	SP-17 (15-17.5')	15
								(17.50') Boring terminated			
20											20

NOTES:

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.	Client:	Galaxy Developers, LLC	WELL LOG
	Project:	Gerry Street Site C224396	Well No. SP-18
	Address:	60 Gerry Street, Brooklyn, NY	Page: 1 of 1

Drilling Start Date:	1/29/2024	Boring Depth (ft):	17.5	Well Depth (ft):	20
Drilling End Date:	1/29/2024	Boring Diameter (in):	1.5	Well Diameter (in):	2
Drilling Company:	PG Environmental Services, Inc.	Sampling Method(s):	Grab	Screen Slot (in):	0.020
Drilling Method:	Direct Push	DTW During Drilling (ft):	7	Riser Material:	
Drilling Equipment:	Geoprobe	DTW After Drilling (ft):	N/A	Screen Material:	
Driller:	PG Environmental Services, Inc.	Ground Surface Elev. (ft):	N/A	Seal Material(s):	Hydrated Bent.
Logged By:	Firat Ataman	Location (Lat, Long):	40.70111, -73.94750	Filter Pack:	Sand Pack

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT: Sample Type	COLLECT: Time	COLLECT: Blow Counts	COLLECT: Recovery (ft)	SOIL/ROCK VISUAL DESCRIPTION	MEASURE: PID (ppm)	MEASURE: Lab Sample	DEPTH (ft)
0				GR			2.00	(0.00') Asphalt (0.50') Concrete (1.00') Well-graded SAND (SW); medium grained, dry, brown	0	SP-18 (0-2')	0
								(2.50') Fill	0.3		
				GR			2.00	(3.50') Well-graded SAND (SW); medium grained, dry, brown, with Fill Material		SP-18 (4-6')	
5								(5') As Above: Wet, Water at 7-feet	8.3		5
								(7') Water at 7-feet			
				GR			2.50	(7.5') As Above	11.7	SP-18 (7.5-10')	
10								(10') As Above	8.5		10
								(12.5') As Above	7.3		
15				GR			2.50	(15') As Above	1.1	SP-18 (15-17.5')	15
								(17.50') Boring terminated			
20											20

NOTES:

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.	**Client:** Galaxy Developers, LLC **Project:** Gerry Street Site C224396 **Address:** 60 Gerry Street, Brooklyn, NY	**WELL LOG** **Well No.** 23MW-5 **Page:** 1 of 1

Drilling Start Date:	**12/27/2024**	Boring Depth (ft):	**16**	Well Depth (ft):	**16**
Drilling End Date:	**12/27/2024**	Boring Diameter (in):	**1.5**	Well Diameter (in):	**2**
Drilling Company:	**Coastal Environmental Solutions, Inc.**	Sampling Method(s):	**Grab**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**N/A**	Riser Material:	
Drilling Equipment:	**Geoprobe**	DTW After Drilling (ft):	**10.61**	Screen Material:	
Driller:	**Coastal Environmental Solutions, Inc.**	Ground Surface Elev. (ft):	**N/A**	Seal Material(s):	**Hydrated Bent.**
Logged By:	**Gabrielle Castro**	Location (Lat, Long):	**40.70134, -73.94736**	Filter Pack:	**Sand Pack**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT: Sample Type	COLLECT: Time	COLLECT: Blow Counts	COLLECT: Recovery (ft)	SOIL/ROCK VISUAL DESCRIPTION	MEASURE: PID (ppm)	MEASURE: Lab Sample	DEPTH (ft)
0								(0.00') Asphalt: with gravel	0.2		0
								(2') As Above (2.50') Poorly graded SAND with gravel (SP); fine grained, little coarse gravel, tan	0.3		
								(4.00') Poorly graded SAND (SP); medium grained, few coarse gravel, brown, with fill material	0.3		
5								(5.50') Fill (6.00') Poorly graded SAND (SP); medium grained, brown, with fill materials	0.6		5
								(8.00') Clayey SAND (SC); fine grained, dense, moist, brown, with some rocks and brick pieces	0.6		
10				GR			2.00	(10.00') Clayey SAND (SC); fine-medium grained, trace coarse gravel, medium dense, moist, brown, with fill material	0.7	23MW-5 (10-12')	10
								(12.00') Clayey SAND (SC); fine grained, moist, brown	0.7		
15				GR			2.00	(14.00') Clayey SAND (SC); fine grained, wet, dark gray, with fill materials; moist at 15-feet, wet at 15-16 feet (15.00') Silty SAND (SM); fine-medium grained, wet, brown	1.4	23MW-5 (14-16')	15
								(16.00') Boring terminated			
20											20

NOTES:

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.	**Client:** Galaxy Developers, LLC **Project:** Gerry Street Site C224396 **Address:** 60 Gerry Street, Brooklyn, NY	**WELL LOG** **Well No.** 23MW-6 **Page:** 1 of 1

Drilling Start Date:	**12/27/2024**	Boring Depth (ft):	**16**	Well Depth (ft):	**16**
Drilling End Date:	**12/27/2024**	Boring Diameter (in):	**1.5**	Well Diameter (in):	**2**
Drilling Company:	**Coastal Environmental Solutions, Inc.**	Sampling Method(s):	**Grab**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**N/A**	Riser Material:	
Drilling Equipment:	**Geoprobe**	DTW After Drilling (ft):	**10.67**	Screen Material:	
Driller:	**Coastal Environmental Solutions, Inc.**	Ground Surface Elev. (ft):	**N/A**	Seal Material(s):	**Hydrated Bent.**
Logged By:	**Gabrielle Castro**	Location (Lat, Long):	**40.70121, -73.94727**	Filter Pack:	**Sand Pack**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT: Sample Type	COLLECT: Time	COLLECT: Blow Counts	COLLECT: Recovery (ft)	SOIL/ROCK VISUAL DESCRIPTION	MEASURE: PID (ppm)	MEASURE: Lab Sample	DEPTH (ft)
0								(0.00') Asphalt (0.50') Poorly graded SAND (SP); medium grained, few coarse gravel, dark brown, with rocks	0.1		0
								(2.00') Concrete (2.50') Poorly graded SAND (SP); medium grained, brown, with brick pieces and fill materials	0.2		
								(4.00') Poorly graded SAND (SP); medium grained, brown, with brick pieces	0.1		
5								(6.00') Silty, Clayey SAND (SC-SM); fine grained, brown	0.1		5
								(8.00') Poorly graded SAND (SP); fine-medium grained, brown, with brick pieces	0		
								(9.50') Clayey SAND (SC); fine grained, gray (10.00') Silty SAND (SM); fine-medium grained, brown, with rocks and brick pieces	0		
10				GR			2.00	(12') As Above	0	23MW-6 (12-14')	10
								(13.00') Clayey SAND (SC); fine grained, dark gray			
				GR			2.00	(14.00') Clayey SAND (SC); fine grained, dark gray	0	23MW-6 (14-16')	
15								(15.00') Poorly graded SAND (SP); fine-medium grained, trace coarse gravel, moist, brown			15
								(16.00') Boring terminated			
20											20

NOTES:

Appendix D

Groundwater Sampling Logs

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 60 Geary St.
Well Depth:
Screen Length:
Water Level Prior to Purging: 9.34'
Water Level After Purging: 10.52'
Total Volume Purged: 10 Liter

Sampling Personnel: F. Hamam
Well No.: 23MW-1
Well Diameter: 2"
Well Construction Date:
Well Sampling Date: 1/7/25

Pump Type: peristaltic pump
Pump Rate: 333 mL/min
Pump Speed:
PID: 2.1 ppm

Time	Temp (°C)	pH	PhmV	ORP (mV)	Cond. (ms/Cm)	Turb. (NTU)	Dis. O2 (mg/L)	% DO	g/L TDS	ppt	OT	Notes
15:25	8.32	6.81	11	-1	1.54	285	6.25		0.964	0.74	0.4	
15:30	11.20	6.40	34	3	1.47	174	0.79		0.938	0.73	0.3	
15:35	11.51	6.33	39	5	1.46	129	0.67		0.938	0.72		
15:40	11.72	6.24	43	8	1.46	104	0.58		0.932	0.72	0.2	
15:45	12.06	6.17	47	11	1.45	75.8	0.57		0.927	0.72	0.2	
15:50	12.17	6.16	48	11	1.45	73.5	0.48		0.930	0.72	0.1	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 60 Gerry St.
Well Depth: _____
Screen Length: _____
Water Level Prior to Purging: 7.5 feet
Water Level After Purging: 9.87 feet
Total Volume Purged: 11.35 liter.

Sampling Personnel: F. A.
Well No.: 23MW-2
Well Diameter: 2'
Well Construction Date: _____
Well Sampling Date: 01/07/25

Pump Type: GeoPump peristaltic pump
Pump Rate: 378 mL/min
Pump Speed: _____
PID: 2.0 ppm

Time	Temp (°C)	pH	PhmV	ORP (mV)	Cond. (ms/Cm)	Turb. (NTU)	Dis. O2 (mg/L)	% DO	g/L TDS	ppt	Oft	Notes
16:30	10.70	6.11	50	47	1.40	169	3.30		0.905	0.70	0.1	
16:35	13.94	6.16	48	17	1.53	1000	0.48		0.976	0.76	0.0	
16:40	13.75	6.29	41	22	1.52	1000	0.92		0.988	0.78	0.0	
16:45	14.52	6.25	43	2	1.81	1000	0.33		1.16	0.92	0.0	
16:50	13.89	6.25	43	-4	1.82	1000	0.45		1.16	0.92	0.1	
16:55	13.85	6.26	42	-5	1.83	1000	0.37		1.17	0.92	0.1	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 60 Cemy St.
Well Depth: 18.9'
Screen Length:
Water Level Prior to Purging: 9.88'
Water Level After Purging: 10.63'
Total Volume Purged: 11.5 liter.

Sampling Personnel: F.A.
Well No.: 23MW-3
Well Diameter:
Well Construction Date:
Well Sampling Date: 11/8/25

Pump Type: Geo pump peristaltic pump
Pump Rate: 400 mL/min
Pump Speed:
PID: 0.0 ppm

Time	Temp (°C)	pH	PhmV	ORP (mV)	Cond. (ms/Cm)	Turb. (NTU)	Dis. O2 (mg/L) DO	g/L TDS	PPT	ot	OT	Notes
11:00	6.62	6.87	856	[illegible]	1.50	95.3	3.34	0.912	0.70	0.4		
11:05	11.33	7.15	-8	134	1.37	80.1	1.90	0.874	0.68	0.2		
11:10	12.00	7.27	-16	127	1.33	46.2	1.27	0.857	0.66	0.1		
11:15	12.23	7.32	-18	120	1.33	40.0	1.02	0.843	0.65	0.1		
11:20	12.31	7.32	-18	118	1.37	39.1	1.02	0.841	0.65	0.1		
11:25	12.40	7.35	-20	113	1.31	37.4	1.02	0.838	0.65	0.1		

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 60 Gerry St.
Well Depth: 13.84'
Screen Length: 20'
Water Level Prior to Purging: 9.64
Water Level After Purging: 9.61
Total Volume Purged: 10 liters

Sampling Personnel: F. Ataman
Well No.: 23MW-4S
Well Diameter: 2"
Well Construction Date:
Well Sampling Date: 01/07/24

Pump Type: peristaltic pump
Pump Rate: 333 mL/min
Pump Speed:
PID: 1.9 ppm.

Time	Temp (°C)	pH	PhmV	ORP (mV)	Cond. (ms/Cm)	Turb. (NTU)	Dis. O2 (mg/L)	% DO	g/L TDS	ppt	O'l	Notes
11:50	13.47	7.76	-40	150	0.927	96.6	5.42	OVER	0.589	0.45	0.0	
11:55	13.33	7.23	-12	161	0.925	94.1	2.18		0.594	0.45	0.0	
12:00	13.81	6.77	13	145	0.975	85.4	2.09		0.634	0.49	0.0	
12:05	13.00	6.51	27	15	1.14	83.3	3.66		0.736	0.57	0.0	
12:10	12.53	6.32	38	-7	1.21	80.1	1.78		0.778	0.60	0.0	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 60 Gerry st.
Well Depth: 30 feet
Screen Length:
Water Level Prior to Purging: 9.62'
Water Level After Purging: 26.35'
Total Volume Purged: 11 Liters

Sampling Personnel: E. Adamov
Well No.: 23MW-4D
Well Diameter: 2"
Well Construction Date:
Well Sampling Date: 1/7/25

Pump Type: peristaltic pump
Pump Rate: 366 mL/min
Pump Speed:
PID: 0.0 ppm

Time	Temp (°C)	pH	PhmV	ORP (mV)	Cond. (ms/Cm)	Turb. (NTU)	Dis. O2 (mg/L)	% DO	g/L TDS	ppt	O'l	Notes
13:05	7.68	5.87	63	-25	5.33	38.1	2.73		3.37	2.82	2.2	
13:10	8.30	6.06	52	-54	5.28	46.4	1.08		3.32	2.78	2.1	
13:15	8.67	6.19	45	-65	5.20	49.4	0.87		3.28	2.74	2.1	
13:20	8.83	6.31	39	-65	4.29	49.3	4.40		2.77	2.35	1.7	
13:25	8.45	6.28	40	-63	5.11	49.9	4.06		3.23	2.70	2.0	
13:30	8.53	6.18	40	-65	5.24	51.8	3.15		3.31	2.77	2.1	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 60 Gerry St.
Well Depth: 16 feet.
Screen Length:
Water Level Prior to Purging: 10.61feet
Water Level After Purging: 11.62feet
Total Volume Purged: 9 liters

Sampling Personnel: F.A
Well No.: 23MW-5
Well Diameter: 2 inches
Well Construction Date:
Well Sampling Date: 1/8/25

Pump Type: geopump - peristaltic pump
Pump Rate: 300 mL/min.
Pump Speed:
PID: 4.1 ppm

Time	Temp (°C)	pH	PhmV	ORP (mV)	Cond. (ms/Cm)	Turb. (NTU)	Dis. O2 (mg/L DO)		g/L TDS	ppt	OT	Notes
13:35	11.32	6.47	30	58	2.53	929	2.10		1.62	1.29	0.7	
13:40	12.35	6.54	26	41	2.55	892	1.47		1.63	1.31	0.6	
13:45	12.53	6.53	27	45	2.65	669	2.64		1.70	1.36	0.6	
13:50	12.82	6.45	31	45	2.59	542	3.36		1.65	1.32	0.5	
13:55	13.01	6.37	36	44	2.53	506	3.31		1.61	1.29	0.5	
14:00	12.93	6.26	42	44	2.57	330	3.29		1.62	1.31	0.5	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 60 Gerry St.
Well Depth: 16 feet
Screen Length:
Water Level Prior to Purging: 10.67 ft.
Water Level After Purging: 11.34 ft.
Total Volume Purged: 8 liter

Sampling Personnel: F.A
Well No.: 23MW-6
Well Diameter: 2 inches
Well Construction Date:
Well Sampling Date: 11/8/25

Pump Type: geopump / peristaltic pump
Pump Rate: 266 mL/min
Pump Speed:
PID: 0.2 ppm

Time	Temp (°C)	pH	PhmV	ORP (mV)	Cond. (ms/Cm)	Turb. (NTU)	Dis. O2 (mg/L)	DO	g/L TDS	ppt	OT	Notes
11:15	8.66	6.82	10	138	1.39	114	3.50		0.889	0.68	0.4	
11:20	8.72	6.37	24	56	1.42	97.9	1.19		0.909	0.70	0.4	
11:25	8.67	6.35	37	47	1.44	77.4	1.41		0.869	0.70	0.4	
11:30	8.44	6.29	40	45	1.43	76.8	10.15		0.913	0.70	0.5	
11:35	8.20	6.17	46	43	1.46	62.9	10.19		0.935	0.71	0.5	
11:40	9.35	6.14	51	42	1.27	57.1	0.58		0.924	0.71	0.5	
									0.814	0.65	0.4	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Geopump/Peristaltic Pump.

Project: 66 Gem St.
Well Depth: ~~Buried~~
Water Level: 8.27 feet
Sampling Personnel: F. A
Screen Length:
Date: 2/19/25

Well No.: 23MW-1
Well Diameter: 2 inches
Water Level Ater Sampling: 9.47ft.
Purged water 6 Gallons
Pump Rate: 252 ml/min.

Time	Temp (°C)	pH	PHmV	ORPmV	mS/cm	Turb. (NTU)	Dis. O2 (mg/L)	%D / g/L TDS	ppt	ot	Notes
12:55	9.92	6.67	18	188	0.366	18.7	12.33	1093 / 0.238	0.17	0.0	
13:00	10.55	6.50	28	187	1.06	18.5	1.58	14.3 / 0.677	0.52	0.2	
13:05	10.34	6.52	27	184	1.10	18.4	1.22	10.9 / 0.707	0.54	0.2	
13:10	10.34	6.53	26	181	1.15	18.5	1.03	9.2 / 0.733	0.56	0.2	
13:15	10.47	6.53	27	178	1.17	18.4	0.82	7.4 / 0.746	0.57	0.2	
13:20	10.64	6.49	29	171	1.21	18.0	6.26	56.5 / 0.775	0.60	0.2	
13:25	10.61	6.53	27	157	1.23	17.8	0.68	6.1 / 0.784	0.61	0.2	
13:30	10.61	6.53	27	143	1.24	17.8	0.65	5.91 / 0.793	0.61	0.2	
13:35	10.53	6.49	29	120	1.24	17.9	0.53	6.13 / 0.796	0.62	0.2	
13:40	10.48	6.53	27	104	1.24	18.0	0.68	5.7 / 0.797	0.61	0.2	
13:45	10.31	6.52	27	94	1.24	17.6	0.67	6.0 / 0.795	0.61	0.2	
13:50	10.45	6.53	27	88	1.25	17.6	0.60	5.4 / 0.797	0.61	0.2	
13:55	10.33	6.53	27	82	1.24	17.7	0.67	6.0 / 0.796	0.61	0.2	
14:00	10.51	6.50	28	74	1.24	17.8	0.63	5.8 / 0.796	0.61	0.2	
14:05	10.52	6.52	27	69	1.24	17.8	0.62	5.6 / 0.794	0.61	0.2	
14:10	10.54	6.53	27	65	1.24	17.7	0.56	5.0 / 0.795	0.61	0.2	
14:15	10.79	6.51	28	59	1.24	17.7	0.59	5.3 / 0.795	0.61	0.2	
14:20	10.64	6.51	28	57	1.24	17.6	0.58	5.6 / 0.795	0.61	0.2	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Geopump / Peristaltic Pump

Project: 66 Gem St.
Well Depth: ~~8.99~~ ft. Screen Length:
Water Level: 8.99 ft. Date: 2/18/25
Sampling Personnel: F. Ataman

Well No.: 23MW-2
Well Diameter: 2 inches
Water Level Ater Sampling: 9.01 ft.
Purged water 3 Gallons
Pump Rate: ~~0.5 gpm~~ 284 ml/min.

Time	Temp (°C)	pH	PHmV	ORPmV	mS/cm	Turb. (NTU)	Dis. O2 (mg/L) % DO	g/L TDS	ppt	ot	Notes
15:50	7.44	6.29	39	64	1.41	54.8	5.39	4.6 0.902	0.68	0.5	
15:55	9.21	6.31	39	45	1.39	47.6	1.53	13.4 0.892	0.69	0.4	
16:00	9.45	6.33	38	44	1.40	36.7	1.17	10.3 0.898	0.69	0.4	
16:05	9.45	6.34	37	45	1.41	34.6	1.05	9.2 0.904	0.70	0.4	
16:10	9.55	6.35	37	46	1.41	32.2	1.00	8.8 0.902	0.70	0.4	
16:15	10.20	6.36	36	46	1.35	27.9	1.00	8.9 0.862	0.66	0.3	
16:20	10.08	6.36	36	48	1.35	25.5	0.90	8.0 0.864	0.67	0.3	
16:25	10.19	6.37	36	51	1.34	24.5	0.83	7.5 0.860	0.66	0.3	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

GeoPump / Peristaltic Pump

Project: 66 Gerry St.
Well Depth: _____ Screen Length: _____
Water Level: 8.74 ft. Date: 2/18/25
Sampling Personnel: F. Ataman

Well No.: 23MW-3
Well Diameter: 2 inches.
Water Level Ater Sampling:
Purged water 1.75 gallons
Pump Rate: ~~1 Liter~~ 220 ml/min

Time	Temp (°C)	pH	PHmV	ORPmV	mS/cm	Turb. (NTU)	Dis. O2 (mg/L) % DO	TDS g/L	ppt	ot	Notes
11:03	5.09	6.64	20	26	1.18	37.8	11.14	87.7 0.76	0.57	0.5	
11:08	6.11	7.08	-4	-25	1.20	32.4	9.78	79.0 0.77	0.58	0.5	
11:13	6.36	7.22	-12	-23	1.19	27.3	9.15	75 0.764	0.58	0.5	
11:18	6.35	7.30	-17	-10	1.19	23.4	9.06	73.6 0.762	0.58	0.5	
11:23	6.32	7.35	-19	8	1.20	25.3	9.05	73.6 0.763	0.58	0.5	
11:28	6.32	7.28	-20	6	1.20	24.8	9.17	74.6 0.769	0.58	0.5	

230123
240060
250014

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Geo Pump / Peristaltic Pump

Project:
Well Depth: 19.58'
Water Level: 9.12'
Sampling Personnel: F. Afaman
Screen Length: Punches
Date: 2/18/25

Well No.: 23MW-45
Well Diameter: 2 inches
Water Level Ater Sampling: 9.15ft.
Purged water 2 Gallons
Pump Rate: 189 ml/min

Time	Temp (°C)	pH	PHmV	ORPmV	mS/cm	Turb. (NTU)	Dis. O2 (mg/L)	g/L TDS	ppt	ot	Notes
9:10	8.92	5.97	58	264	0.964	218	3.43	0.617	0.47	0.2	
9:15	9.26	5.85	64	58	0.983	140	1.74	0.629	0.48	0.2	
9:20	9.55	5.88	63	21	1.00	94.3	1.32	0.642	0.49	0.2	
9:25	9.64	5.93	60	10	1.01	80.1	1.16	0.648	0.49	0.2	
9:30	9.65	5.99	56	-5	1.10	71.2	0.98	0.714	0.55	0.3	
9:35	9.64	6.04	54	-12	1.18	65.1	0.90	0.763	0.59	0.3	
9:40	9.13	6.14	48	-6	1.18	39.1	2.70	0.761	0.58	0.3	
9:45	9.14	6.15	18	-15	1.20	33.3	1.78	0.770	0.59	0.3	

9.12

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 66 Gerry St.
Well Depth: _____ Screen Length: _____
Water Level: 8.64 ft. Date: 2/19/25
Sampling Personnel: F. Ataman

Well No.: 23MW-4D
Well Diameter: 2 inches.
Water Level Ater Sampling: 8.72 ft.
Purged water 36 Gallons
Pump Rate: 252 mL/min.

1.00 g/L

Time	Temp (°C)	pH	PHmV	ORPmV	mS/cm	Turb. (NTU)	Dis. O2 (mg/L	g/L TDS	ppt	ot	Notes
15:30	6.40	6.55	25	75	2.50	39.5	2.71	1.60	1.35	1.0	1
15:35	7.41	6.58	23	40	2.57	41.4	0.74	6.2 1.64	1.30	1.0	
15:40	7.83	6.60	23	28	2.59	42.9	0.65	5.6 1.65	1.31	1.0	
15:45	8.02	6.61	22	20	2.58	43.6	0.60	5.1 1.65	1.31	1.0	
15:50	8.01	6.62	27	15	2.56	36.5	0.55	4.7 1.65	1.31	1.0	
15:55	7.93	6.66	19	11	2.58	35.4	0.64	5.5 1.65	1.31	1.0	
16:00	7.05	6.81	11	-16	2.51	35.1	0.65	5.7 1.61	1.26	1.0	
16:05	6.95	6.67	10	-18	2.55	44.8	0.61	5.1 1.62	1.27	1.0	
16:10	6.88	6.66	14	-22	2.54	43.4	0.65	5.4 1.63	1.28	1.0	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

Project: 66 Geary st.
Well Depth: _____ Screen Length: _____
Water Level: 9.48ft. Date: 2/18/25
Sampling Personnel:

Geo pump / Peristaltic Pump
Well No.: 23MW-5
Well Diameter: 2 inch.
Water Level Ater Sampling: 9.44
Purged water 2 Gallons
Pump Rate: 180 rpm 189 ml/min

Time	Temp (°C)	pH	PHmV	ORPmV	mS/cm	Turb. (NTU)	Dis. O2 (mg/L	g/L TDS	ppt	ot	Notes
11:50	5.39	6.98	2	86	2.73	14.3	5.64	1.75	1.37	1.1	
11:55	6.83	6.91	10	73	2.73	94.4	4.43	1.75	1.37	1.1	
12:00	7.70	6.75	14	71	2.68	56.2	3.94	1.71	1.35	1.0	
12:05	8.44	6.74	16	71	2.67	43.0	3.78	1.71	1.36	1.0	
12:10	8.56	6.69	17	72	2.68	36.5	3.87	1.71	1.36	1.0	
12:15	8.69	6.68	18	73	2.68	33.5	3.80	1.72	1.36	1.0	
12:20	8.85	6.67	18	75	2.68	35.0	3.72	1.71	1.36	1.0	
12:25	8.82	6.67	19	77	2.67	33.5	3.82	1.71	1.36	1.0	

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

GeoPump / Peristaltic Pump.

Project: 60-66 Gerry St.
Well Depth: _____ Screen Length: _____
Water Level: 9.89 Date: 2/18/25
Sampling Personnel: F. Hannan

Well No.: 23MW-6
Well Diameter: 2 inches
Water Level Ater Sampling: 11.38
Purged water 3.5 Gallons
Pump Rate: ~~180 ml/min~~ 265 ml/min

Time	Temp (°C)	pH	PHmV	ORPmV	mS/cm	Turb. (NTU)	Dis. O2 (mg/l	%DO	g/l TDS	ppt	ot	Notes
14:05	7.32	6.63	21	100	1.48	141	457	38.1	0.945	0.72	0.5	
14:10	10.12	6.42	33	48	1.38	57.3	0.72	6.4	0.882	0.68	0.3	
14:15	10.14	6.40	34	37	1.38	50.8	0.57	5.1	0.885	0.68	0.3	
14:20	10.05	6.38	35	29	1.37	42.9	0.58	5.1	0.880	0.68	0.3	
14:25	10.12	6.39	34	25	1.38	37.4	0.55	5.5	0.881	0.68	0.3	
14:30	9.99	6.39	34	18	1.38	35.9	0.62	5.5	0.885	0.68	0.3	
14:35	9.89	6.35	36	15	1.39	34.5	0.57	5.0	0.890	0.69	0.3	
14:40	9.85	6.35	37	12	1.41	37.9	0.52	4.6	0.899	0.69	0.4	
14:45	9.73	6.33	37	10	1.42	32.1	0.48	4.2	0.911	0.70	0.4	
14:50	9.38	6.32	38	6	1.49	19.5	0.55	4.8	0.956	0.74	0.4	

Appendix E

Groundwater Sampling Procedures

Groundwater Sampling Procedures

Groundwater samples were collected from all monitoring wells in accordance with USEPA low-flow sampling procedures using polyethylene tubing and a low flow pump with disposable pump tubing.

All groundwater sampling activities were recorded in the project dedicated field book and included a description of:

- Date and time of sample collection;
- Sample location;
- Purging time, duration and volume;
- Sample appearance
- Analytical methodology:

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

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

concentration. Connect the polyethylene tubing to the Geotechnical Peristaltic Pump and lower the tubing into the wellto approximately the middle of the screen. Tubing should be a minimum of 2 feet above the bottom of the well as this may cause mobilization of any sediment present in the bottom of the well.

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

cooler for shipment and maintain at 4^{o}C.

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

Groundwater samples were collected in pre-cleaned laboratory supplied glassware, stored in a cooler with ice and submitted to a New York State ELAP certified environmental laboratory.

Appendix F

Email Correspondences with NYSDEC and Regenesis Regarding the Proposed Remedy

Gmail Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

C224396 Daily Report

Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov> Wed, Dec 11, 2024 at 2:46 PM
To: Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Cc: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>, George Cambourakis <gjc@set-ny.com>, "O'Connell, Jane H (DEC)" <jane.oconnell@dec.ny.gov>, "Maycock, Cris-Sandra (DEC)" <cris-sandra.maycock@dec.ny.gov>, "Selmer, Stephanie L (HEALTH)" <stephanie.selmer@health.ny.gov>, "McLaughlin, Scarlett E (HEALTH)" <scarlett.mclaughlin@health.ny.gov>

Hi Rachel,

Yes, I spoke with Mehmet about this on Monday, but we have three major additional comments:

1. We would like you to include two more wells on Lot 5 in order to collect two additional samples during the re-design groundwater investigation so that we can confirm the existing groundwater conditions across the entire site.

2. Since the water table appears to have rebounded to pre-dewatering conditions (11 – 12 ft-bg), dewatering will be required for the 13 – 15 ft deep excavation needed for the development, meaning that there will be another few feet or so of unsaturated CVOC impacted soil that would need to be excavated. Have you determined how deep this dewatering will need to go? We will need to have a detailed description of the sequencing for this part of the remedy. We'd like to set up another call with you and the P.E. of record to discuss this in more depth.

3. Because of how quickly the water table has rebounded, DOH may no longer require passive SSDS piping to be installed, but additional language regarding an SVI evaluation and/or other vapor mitigation measures may be needed. I will discuss this with DOH and get back to you as soon as possible.

I also a few additional, more minor comments to be addressed. I will send over a marked up copy of the RAWP with those shortly.

Regarding the call, DEC is available for a call this week:

1. tomorrow anytime from 3:30 PM – 5:00 PM
2. Thursday from 10:00 AM – 11:00 AM
3. Friday anytime from 3:00 PM – 5:00 PM

If none of these times works for everyone, please let me know and I can give you our availability for next week. Thank you.

[Quoted text hidden]

Gmail Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

RE: C224396 Gerry Street Daily Report - Groundwater PDI

Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov> Fri, Jan 31, 2025 at 12:36 PM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>, George Cambourakis <gjc@set-ny.com>, Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Cc: "Maycock, Cris-Sandra (DEC)" <cris-sandra.maycock@dec.ny.gov>, "O'Connell, Jane H (DEC)" <jane.oconnell@dec.ny.gov>, "McLaughlin, Scarlett E (HEALTH)" <scarlett.mclaughlin@health.ny.gov>, "Dolan, Michele (HEALTH)" <Michele.Dolan@health.ny.gov>

Received, thank you Gabrielle!

Regarding the PDI, I already spoke with Rachel over the phone about this, but due to the high turbidity levels in this round of samples, I have asked for the wells to be developed further as needed before recollecting.

If the high turbidity levels persist, some of the wells may need to be redeveloped.

As a heads up, the recent PDI developments do not need to be discussed in the RAWP, the RAWP can refer to the groundwater gauging that was taking place last month, but everything that happened this month can be described in the upcoming PDI report.

--

Madeleine

From: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Sent: Tuesday, January 28, 2025 1:05 PM
To: Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov>
Cc: George Cambourakis <gjc@set-ny.com>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; Selmer, Stephanie L (HEALTH) <stephanie.selmer@health.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Subject: Re: C224396 Gerry Street Daily Report

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Hello Madeleine,

Gmail Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

C224396 Daily Report

Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov> Mon, Feb 3, 2025 at 4:40 PM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>, "Maycock, Cris-Sandra (DEC)" <cris-sandra.maycock@dec.ny.gov>, "O'Connell, Jane H (DEC)" <jane.oconnell@dec.ny.gov>, "McLaughlin, Scarlett E (HEALTH)" <scarlett.mclaughlin@health.ny.gov>, "Dolan, Michele (HEALTH)" <Michele.Dolan@health.ny.gov>

Received, thank you Gabrielle.

Could you please send over the recorded turbidity levels from today?

Was turbidity the only quality that was measured? The sampling logs from last month also indicated that conductivity and oxidation-reduction potential had trouble stabilizing in some wells.

If the turbidity has managed to finally stabilize after developing the wells further, that looks like a good sign to go back out to the site and re-collect samples.

If for whatever reason the turbidity next week does not mimic today's measurements and is once again significantly greater than 50 NTUs, then we'll have to consider reinstalling some of the wells.

Please let me know when you plan on going out to the site for sampling and I can swing by to observe.

Madeleine Babick, EIT

Assistant Engineer

New York State Department of Environmental Conservation

Division of Environmental Remediation | Region 2

47-40 21st Street, Long Island City, NY 11101

w: (718) 482-4992 | madeleine.babick@dec.ny.gov

dec.ny.gov | @NYSDEC on Social Media | Podcast

From: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Sent: Monday, February 3, 2025 4:16 PM
To: Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Dolan, Michele (HEALTH) <Michele.Dolan@health.ny.gov>
Subject: C224396 Daily Report

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Gmail Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

RE: C224396 60-66 Gerry St Daily Report

Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov> Fri, Feb 7, 2025 at 3:27 PM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>, George Cambourakis <gjc@set-ny.com>, "O'Connell, Jane H (DEC)" <jane.oconnell@dec.ny.gov>, "Maycock, Cris-Sandra (DEC)" <cris-sandra.maycock@dec.ny.gov>, "McLaughlin, Scarlett E (HEALTH)" <scarlett.mclaughlin@health.ny.gov>, "Dolan, Michele (HEALTH)" <Michele.Dolan@health.ny.gov>

Thank you, Gabrielle.

Yes, it would be good to see how the ORP changes by next week.

I will come to the site then just to observe the water quality measurements. You can bring your sampling equipment if you like, but if the ORP is still like Monday's, it would be best to wait another week before recollecting.

--

Madeleine

From: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Sent: Friday, February 7, 2025 1:05 PM
To: Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>; George Cambourakis <gjc@set-ny.com>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Dolan, Michele (HEALTH) <Michele.Dolan@health.ny.gov>
Subject: Re: C224396 Daily Report

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Hello Madeleine,

The variations in the ORP detected throughout the Site are likely associated with groundwater recharging at the Site and may indicate that the groundwater is not recharging evenly throughout the Site. The ORP levels at the Site will most likely stabilize over time and we can reassess the ORP measurements next week if necessary. Attached please find charts highlighting the ORP measurements over time for each monitoring well.

Additionally, we have spoken to Regenesis about the changes in ORP at the Site and Regenesis stated that these changes will not impact the injection plan or effectiveness of the ISBR + C injections.

Thank you,

Gabrielle Castro

Project Manager

P: (631) 315-2732

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

On Thu, Feb 6, 2025 at 1:19 PM Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov> wrote:

> Hi Gabrielle,
>
> I'm still concerned about the ORP being all over the place with reductive conditions observed in one part of the site (-20 & -18 mV) but oxidative conditions everywhere else (2 – 98 mV). Samples collected under these conditions would not be considered valid.
>
> Do you guys have an explanation for why this may be happening?
>
> --
>
> Madeleine

From: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Sent: Wednesday, February 5, 2025 2:58 PM
To: Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Dolan, Michele (HEALTH) <Michele.Dolan@health.ny.gov>
Subject: Re: C224396 Daily Report

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Hello Madeleine,

Gmail Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

RE: Gerry Street (C224396) Remedial Investigation Report

Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov> Tue, Feb 18, 2025 at 3:48 PM
To: George Cambourakis <gjc@set-ny.com>, Rachel Ataman <rachelataman@touchstoneenvironmental.com>, Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Cc: "Maycock, Cris-Sandra (DEC)" <cris-sandra.maycock@dec.ny.gov>, "Dolan, Michele (HEALTH)" <Michele.Dolan@health.ny.gov>, "McLaughlin, Scarlett E (HEALTH)" <scarlett.mclaughlin@health.ny.gov>, "O'Connell, Jane H (DEC)" <jane.oconnell@dec.ny.gov>

We would be available to discuss:

- tomorrow (2/19) from 2:00 PM – 3:00 PM and 3:30 PM – 4:30 PM
- Thursday (2/20) from 10:00 AM – 11:00 AM and anytime from 3:30 PM until 5:00 PM

If you and the contact from Regenesis are not available during these times, please let me know and I can send over the Department's availability for next week.

As Jane mentioned, we want to confirm with Regenesis whether the proposed injection plan will need to be drastically changed based on the recently observed groundwater conditions. Please note that it is fine for samples to be collected from the site under these conditions (unstable ORP, moderate to low turbidity, etc.).

We also want to confirm with Regenesis how dewatering following these injections will affect their ability to remediate the CVOCs. The RAWP mentions utilizing soil mixing as a means of preventing the injection substrate from being removed during the excavation dewatering, but specifics of how this will work are not provided.

If you or Regenesis have any figures or additional documents that can better explain this, please send those over prior to the meeting.

Regarding the RIR, I have received the revised certified version as per the most recent comments and will be sending over an approval this week.

--

Madeleine

From: O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Sent: Tuesday, February 18, 2025 3:05 PM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>; Babick, Madeleine S (DEC) <madeleine.babick@dec.ny.gov>

Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; Dolan, Michele (HEALTH) <Michele.Dolan@health.ny.gov>; George Cambourakis <gjc@set-ny.com>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>
Subject: RE: Gerry Street Remedial Investigation Report

George – I have asked Madeleine to set up a call with you and with Regenesis. On our last call in December I had requested clarity on the sequencing of the remedial components. However, you did not provide a response to that question. As you know, the order/sequence is critical to ensure that the injected substrate has sufficient time to work before the site dewatering begins. ZVI is a long-duration substrate that works over the course of many months/years. If the substrate is even partially pumped out during dewatering, the efficacy of the injection program is potentially voided.

Furthermore, the injection program that Regenesis designed was based on groundwater conditions which have changed since the RI. Specifically, during the RI the ORP in most, if not all, of the monitoring wells demonstrated reducing conditions while the most recent water quality parameters appear to be a mix of oxidizing and reducing conditions. Therefore we want to understand whether the injection design needs to be modified or updated by Regenesis based on the recent data.

Until we have adequate responses to these issues, the RAWP will not be approved.

Jane

JANE H. O'CONNELL, P.G *(she/her)*

Regional Remediation Engineer

New York State Department of Environmental Conservation

Division of Environmental Remediation | Region 2

47-40 21st Street, Long Island City, NY 11101

w: (718) 482-4599 | c: (917) 817-1845 | jane.oconnell@dec.ny.gov

dec.ny.gov | @NYSDEC on Social Media | Podcast

Gmail Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

Clarification on the 60-66 Gerry Street Site

Tyler Harris <THarris@regenesis.com> Wed, Feb 19, 2025 at 9:18 AM
To: Rachel Ataman <rachelataman@touchstoneenvironmental.com>, Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Cc: Elliot Maker <Emaker@regenesis.com>

Good morning Rachel,

Yes I am available at 3:30 today. I talked to a few colleagues about this and the general consensus what that if it were possible to do injections afterwards that would probably be for the best, but would likely not be a make or break difference. The largest concern expressed was not removing materials as everyone agreed that not a lot of injectate would be removed. But the greater concern was changing the environment in an unanticipated way that we were not able to proper account for.

- The groundwater table is currently at 8-10 feet below grade and the Site will be dewatered to approximately 12 feet below grade. The injections will be performed from approximately 13 to 32 feet below grade at the beginning of the remediation (approximately two to three months prior to the performance of dewatering activities). The NYSDEC is concerned that the injection solution will be drawn up/removed from the groundwater/substrate during dewatering. Can you provide us with a write up indicating if this could occur?
  - While it is possible that the removal of standing water would remove some injectate, it would not remove large quantities. Despite being a colloidal iron, S-MicroZVI is not significantly mobile in the groundwater without moderate pressures. Removing standing groundwater from an excavation will not likely provide sufficient negative pressure to remove significant quantities of S-MicroZVI. 3DMe, which is emulsified for easy spread in the aquifer and metabolized into even easier dispersed compounds, would likely be removed at a greater level. Still, with the vertical interval change to apply from 13-32 ft, allowing for a foot of vertical spacing between the dewatering and the injection area, this loss is expected to be minimal.

    The best solution may be to apply the injection after the application so that any changes to on-site conditions can be accounted for. However, injections under excavated areas can be prone to flowing into the excavated area and away from the target environment. This can be extremely difficult to determine if and where this may or has occurred. Potential changes to site conditions may include the introduction of oxygen. The S-MicroZVI can easily handle a small introduction, but a larger influx may oxidize a large quantity of S-MicroZVI. This more oxidized state could be handled by more 3DMe, which would be consumed microbially and turn the environment anoxic again, increasing our dose of S-MicroZVI to account for some loss resulting from oxic conditions or some other cheap oxygen scavenger.

- How long does it take for the proposed solution (application of 3-D Microemulsion, SMicroZVI, and BDI Plus) to start working in the saturated soil/groundwater?
  - We recommend monitoring monthly for the first two months and quarterly after that. Since this application relies on a series of barriers, the distance from the monitoring location to the barrier will be the most significant factor for the time required to observe results. A monitoring location 6 feet or less from a barrier, particularly downgradient of the barrier, should see noticeable results within those first two months. Locations further from the barrier locations can expect a longer timeline depending on the distances, with locations at the extreme, roughly 25 ft away, potentially taking about a year to see noticeable results.

- Prior to the installation of the new building foundation, we have proposed soil mixing with the proposed solution in the top two feet of soil to ensure the injection substrate was not removed from the soil during the dewatering activities. Will this be sufficient in ensuring that the injection substrates have not been removed during dewatering activities?
  - While the colloidal nature of S-MZVI and 3DMe would result in the materials adhering to the soil surfaces during soil mixing to a greater degree than injections, but this would be a minor difference. We can discuss more this afternoon, but are you suggesting soil mixing at the same time as the dewatering? I think that would be the best method for treating any areas of potential overlap. I have had a lot of experience

successfully using our colloidal carbon product PetroFix in a similar way. In those situations I'd recommend soil mixing and injecting below that soil mixing.

- Additionally, can you provide us with a design for the soil mixing including the quantity of the solution that would be required?
  - Yes, I can help put something like this together, but I'm unlikely to have that available by this afternoon.

Tyler Harris
Design Specialist - Atlanta, GA
office: 949-409-1784

cell: 404-809-8807

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From: Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Sent: Wednesday, February 19, 2025 7:29 AM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Cc: Tyler Harris <THarris@Regenesis.com>; Elliot Maker <Emaker@regenesis.com>
Subject: Re: Clarification on the 60-66 Gerry Street Site

[External Email]

[Quoted text hidden]

Gmail

Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

Soil Mixing Information

Tyler Harris <THarris@regenesis.com> Thu, Feb 27, 2025 at 12:55 PM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

Hi Gabrielle,

It varies some depending on amendments used, I'm assuming this is for Gerry so this wouldn't apply for every other application.

Remove the soils down to the top of the treatment areas before applying any materials. There's generally two ways that you could start this, but they end up in the same place.

1. You could mix the 3DMe and S-MZVI together in some water to help ensure that they spread equally and evenly. Use as little water as possible, I'd start with only 200 gallons. Then you spray this mixture fairly evenly across the area, it doesn't need to perfect at this point, but you can spread this pretty well and the better you spread it now the less work later mixing it.
2. You can directly apply the two liquids to the surface of the area separately without mixing them together or adding water. This will make it harder to distribute evenly since you won't be able to spread the separate undiluted liquids as evenly but helps minimize any water.

Once the amendments are added to surface you'll want to use a backhoe, soil shredder, or something similar to mix that into the soils over the planned 3 foot vertical area. Make sure to breakup any clumps of soil. Add as little water as needed to give you the volume to cover the area. The two reagents mixed together make a dark gray color, I'm not sure of the native color, but want to mix the reagents in with the soil enough that everything is coated and there are no lumps of native soil.

Tyler Harris
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office: 949-409-1784

cell: 404-809-8807

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Gmail Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

60-66 Gerry Street

13 messages

Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com> Wed, Mar 12, 2025 at 9:26 AM
To: Tyler Harris <THarris@regenesis.com>, Elliot Maker <Emaker@regenesis.com>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>

Hello Tyler and Elliot,

Attached please find the most recent monitoring well logs and groundwater sampling data from February 2025 for the Gerry Street Site. Please let us know if any changes to the injection plan or soil mixing plan would be required based on the updated groundwater data.

Thank you,

Gabrielle Castro
Project Manager
P: (631) 315-2732
TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

3 attachments

GW VOCs 02 2025.xlsx
16K

02 19 2025 - MW logs.pdf
4664K

02 18 2025 - MW logs.pdf
8174K

Tyler Harris <THarris@regenesis.com> Wed, Mar 12, 2025 at 11:18 AM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>, Elliot Maker <Emaker@regenesis.com>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>

Hi Gabrielle,

Thanks for the update. It looks like the ORP is continuing to slowly return to reduced conditions. Everything I'm seeing fits well within our expected fluctuation ranges for our current dosing.

Tyler Harris
Design Specialist - Atlanta, GA
office: 949-409-1784

cell: 404-809-8807

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From: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Sent: Wednesday, March 12, 2025 9:26 AM
To: Tyler Harris <THarris@Regenesis.com>; Elliot Maker <Emaker@regenesis.com>
Cc: Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Subject: 60-66 Gerry Street

[External Email]

[Quoted text hidden]

Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com> Wed, Mar 12, 2025 at 3:13 PM
To: Tyler Harris <THarris@regenesis.com>
Cc: Elliot Maker <Emaker@regenesis.com>, Rachel Ataman <rachelataman@touchstoneenvironmental.com>

Thank you Tyler.

Gabrielle Castro
Project Manager
P: (631) 315-2732
TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

[Quoted text hidden]

Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com> Fri, Mar 14, 2025 at 12:13 PM
To: Tyler Harris <THarris@regenesis.com>
Cc: Elliot Maker <Emaker@regenesis.com>, Rachel Ataman <rachelataman@touchstoneenvironmental.com>

Hello Tyler,

Attached please find the metal and additional groundwater treatment parameter analytical results from the February 2025 sampling.

We would like to inquire whether the elevated concentrations of sulfate detected in 23MW-3, 23MW-4D, 23MW-5, and 23MW-6 will affect the performance of the ISBR + C solution. Please note that 23MW-4 and 23MW-6 are not located within the treatment area.

If the elevated sulfates in 23MW-4D and 23MW-5 are not expected to impact the performance of the ISBR + C solution, Rachel is ready to order the chemicals.

Additionally, could you please confirm the number of injection points proposed for the injection? The proposal states 18 points but the figure provided in the proposal only shows 16 points.

Thank you,

Gabrielle Castro
Project Manager

P: (631) 315-2732
TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

[Quoted text hidden]

GW Metals 02 2025.xlsx
17K

Tyler Harris <THarris@regenesis.com> Fri, Mar 14, 2025 at 2:04 PM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Cc: Elliot Maker <Emaker@regenesis.com>, Rachel Ataman <rachelataman@touchstoneenvironmental.com>

Yes, sulfate reduction can limit the amount of the ERD applied that can be used for acid fermentation of the 3DMe components. These sulfate concentrations are very high, is this natural levels or was something like a persulfate application previously performed?

[Quoted text hidden]

Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com> Fri, Mar 14, 2025 at 2:29 PM
To: Tyler Harris <THarris@regenesis.com>
Cc: Elliot Maker <Emaker@regenesis.com>, Rachel Ataman <rachelataman@touchstoneenvironmental.com>

Hello Tyler,

Injections were performed at the Site in 2016 and 2017 including the application of MFR+XFR in 2016 and Persulfox and Plume Stop in 2017.

Additionally, we wanted to make sure you noticed that the results are in ug/L, since the NYSDEC has asked for all of the results to be presented in that unit.

Thank you,

Gabrielle Castro
Project Manager
P: (631) 315-2732
TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

[Quoted text hidden]

Tyler Harris <THarris@regenesis.com> Fri, Mar 14, 2025 at 3:27 PM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Cc: Elliot Maker <Emaker@regenesis.com>, Rachel Ataman <rachelataman@touchstoneenvironmental.com>

Gabrielle and Rachel,

It seems like we're okay with going ahead without any changes in that case. Sulfate can be a competitor and is more concerned with applied and not natural. But considering that the application was so many years ago, and there appear to be several signs that ERD is currently happening, we are still in a good spot.

Daughter products appear to be forming. There are no other electron acceptors to be concerned about; ORP is still slightly oxidized but is normally reduced and continues to become reduced.

We've had success with similar strategies on other sites with high sulfate before that have had other similarly positive indicators.

Gmail

Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

Gerry Injection Treatment Area Map

Tyler Harris <THarris@regenesis.com> Mon, Mar 17, 2025 at 9:40 AM
To: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>

This new map includes 18 locations with updated distances.

Tyler Harris
Design Specialist - Atlanta, GA
office: 949-409-1784

cell: 404-809-8807

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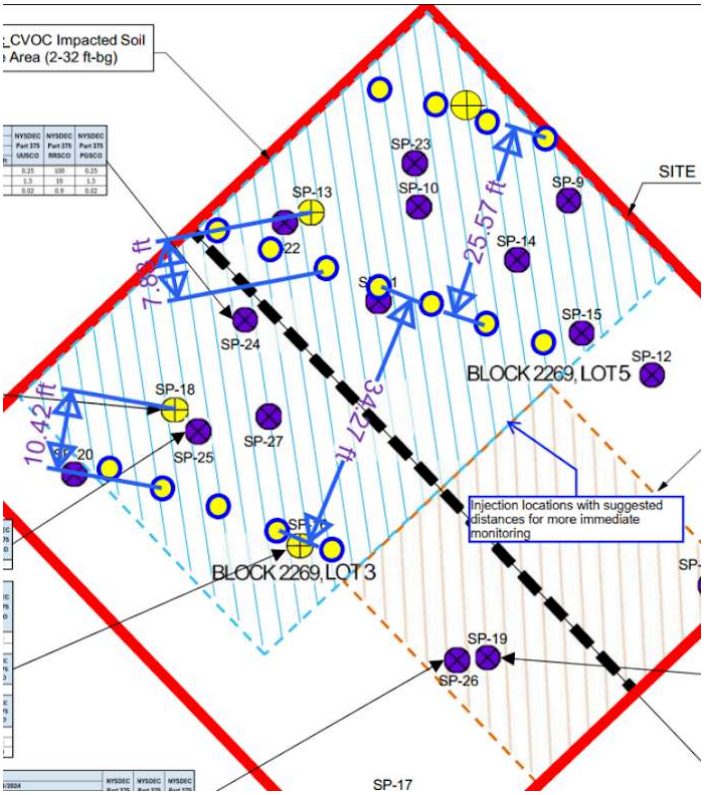
From: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Sent: Monday, March 17, 2025 9:16 AM
To: Tyler Harris <THarris@Regenesis.com>
Subject: Gerry Injection Treatment Area Map

[External Email]

Hello Tyler,

Can you provide an updated injection location map? The map provided in the February 20, 2025 proposal only shows 16 injection points. See below:



[Quoted text hidden]

60 Gerry Treatment Map Rev 4.pdf
800K

Appendix G

Regenesis Design for Bioremediation

REGENESIS

Technology-Based Solutions for the Environment

PROJECT NAME

60 Gerry St

Revision 4

PREPARED FOR

Touchstone Environmental Geology
Rachel Ataman
rachelataman@touchstoneenvironmental.com

PREPARED BY

REGENESIS

Tyler Harris
tharris@regenesis.com

Elliot Maker
emaker@regenesis.com

February 20, 2025

Project Summary

REGENESIS appreciates the opportunity to provide Touchstone Environmental Geology our remedial design and cost estimate for the 60 Gerry St project. This proposal includes an overview of our proposed solution, the project goals, technologies proposed, application design summary table and a treatment area map.

Proposed Solution

We propose the application of 3-D Microemulsion®, S-MicroZVI®, and Bio-Dechlor INOCULUM® Plus (BDI Plus) to be applied in three rows of direct push injection points perpendicular to the flow of groundwater. Roughly 6 to 8 weeks after this injection the same reagents will be applied in soil mixing after redevelopment excavation and dewatering takes place.

Project Goals

This treatment strategy is designed to achieve NYSDEC Part 375 UUSCO/PGSCO standards in the saturated soils from 10 to 32 feet bgs.

Design Assumptions

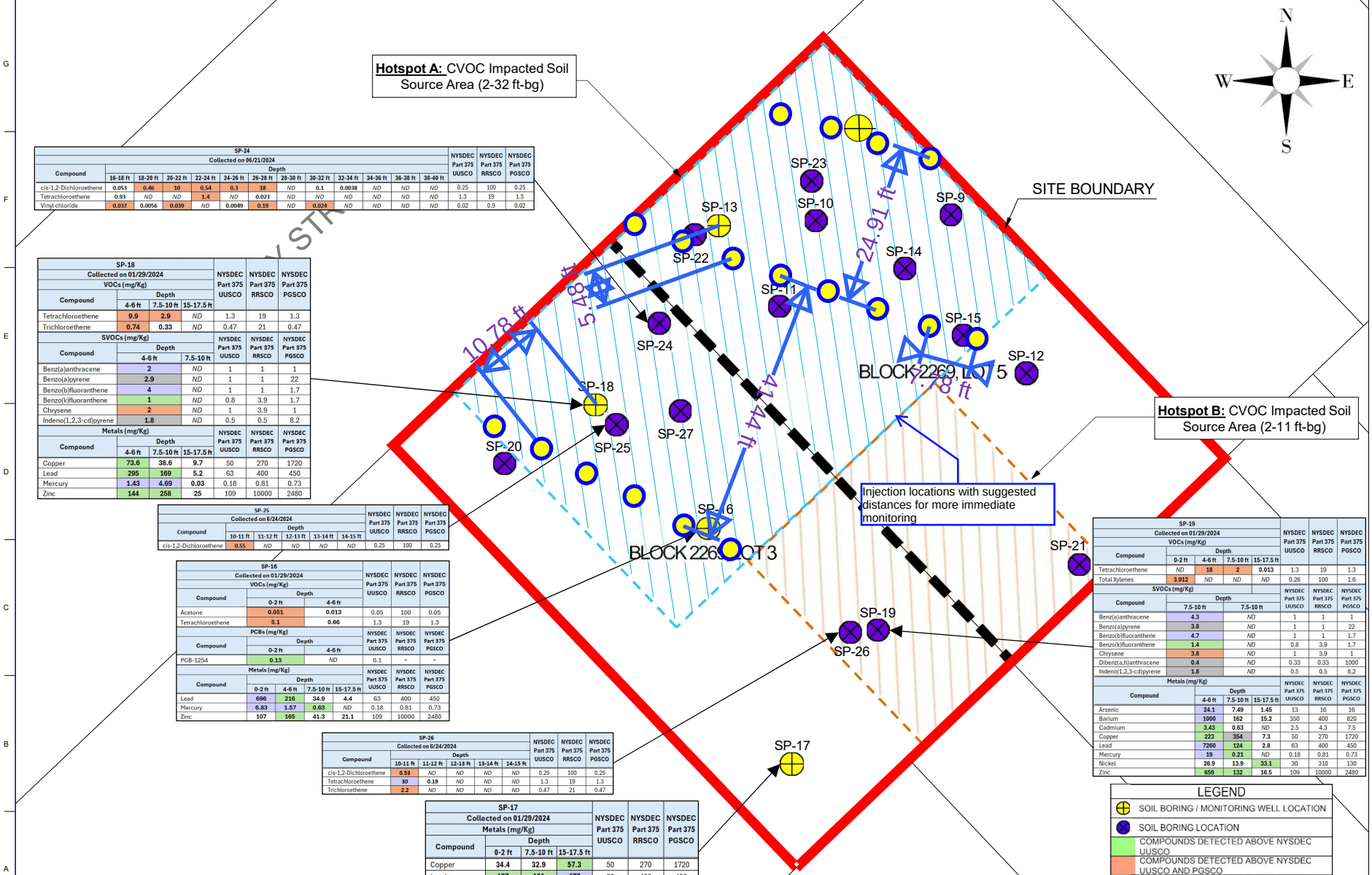
- Based on the site location, the treatment area is assumed to contain primarily medium-grained sands with trace amounts of silt.
- An excavation to a total depth of 15 ft bgs will occur after the injection application.
- Hot Spot A's treatment area is 85x50 ft from 10-32 ft bgs.
- This remedial design assumes pre-existing reduced and anaerobic conditions.
- This proposal assumes BDI is applied via slip-stream into the 3DME and S-MZVI solution. See directions here: BDI Application Instructions

Technical Resources

- 3-D Microemulsion® Technical Bulletin: Subsurface Transport3-D Microemulsion®
- 3-D Microemulsion® Technical Bulletin: Micelluar Distribution
- 7 Business Reasons to Consider In Situ Chemical Reduction to Treat Your Site
- S-MicroZVI® Technical Bulletin: Benefits of Sulfidation
- Bio-Dechlor INOCULUM Plus (BSI Plus) Spec Sheet
- BDI Ohio Manufacturing cVOC Case Study
- 3-D Microemulsion® Case Study: Combined Remedy Protects Michigan Neighborhood
- S-MicroZVI® Case Study: Tinker AFB

Design Summary

Application Method	Vertical Treatment Area	Injection Points	3-D Microemulsion (lbs)	S-MicroZVI (lbs)	BDI (L)	Injection Volume (gallons)
DPT	10 to 32	18	5,200	3,900	51	16,346
Soil Mixing	12 to 15	-	800	1,000	-	4,860



SP-24 Collected on 06/21/2024													NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth														
	16-18 ft	18-20 ft	20-22 ft	22-24 ft	24-26 ft	26-28 ft	28-30 ft	30-32 ft	32-34 ft	34-36 ft	36-38 ft	38-40 ft			
cis-1,2-Dichloroethene	0.053	0.46	10	0.54	0.3	18	ND	0.1	0.0038	ND	ND	ND	0.25	100	0.25
Tetrachloroethene	0.93	ND	ND	1.4	ND	0.023	ND	ND	ND	ND	ND	ND	1.3	19	1.3
Vinyl chloride	0.037	0.0056	0.039	ND	0.0049	0.19	ND	0.024	ND	ND	ND	ND	0.02	0.9	0.02

SP-18 Collected on 01/29/2024				NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
VOCs (mg/Kg)						
Compound	Depth					
	4-6 ft	7.5-10 ft	15-17.5 ft			
Tetrachloroethene	9.9	2.9	ND	1.3	19	1.3
Trichloroethene	0.74	0.33	ND	0.47	21	0.47
SVOCs (mg/Kg)				NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth					
	4-6 ft	7.5-10 ft				
Benz(a)anthracene	2	ND		1	1	1
Benzo(a)pyrene	2.9	ND		1	1	22
Benzo(b)fluoranthene	4	ND		1	1	1.7
Benzo(k)fluoranthene	1	ND		0.8	3.9	1.7
Chrysene	2	ND		1	3.9	1
Indeno(1,2,3-cd)pyrene	1.8	ND		0.5	0.5	8.2
Metals (mg/Kg)				NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth					
	4-6 ft	7.5-10 ft	15-17.5 ft			
Copper	73.6	38.6	9.7	50	270	1720
Lead	295	169	5.2	63	400	450
Mercury	1.43	4.69	0.03	0.18	0.81	0.73
Zinc	144	258	25	109	10000	2480

SP-25 Collected on 6/24/2024						NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth							
	10-11 ft	11-12 ft	12-13 ft	13-14 ft	14-15 ft			
cis-1,2-Dichloroethene	0.55	ND	ND	ND	ND	0.25	100	0.25

SP-16 Collected on 01/29/2024			NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
VOCs (mg/Kg)					
Compound	Depth				
	0-2 ft	4-6 ft			
Acetone	0.051	0.013	0.05	100	0.05
Tetrachloroethene	5.1	0.66	1.3	19	1.3
PCBs (mg/Kg)			NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth				
	0-2 ft	4-6 ft			
PCB-1254	0.13	ND	0.1	~	~
Metals (mg/Kg)					
Compound	Depth				NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
	0-2 ft	4-6 ft	7.5-10 ft	15-17.5 ft			
Lead	696	216	34.9	4.4	63	400	450
Mercury	6.83	1.57	0.63	ND	0.18	0.81	0.73
Zinc	107	165	41.3	21.1	109	10000	2480

SP-26 Collected on 6/24/2024						NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth							
	10-11 ft	11-12 ft	12-13 ft	13-14 ft	14-15 ft			
cis-1,2-Dichloroethene	0.33	ND	ND	ND	ND	0.25	100	0.25
Tetrachloroethene	30	0.19	ND	ND	ND	1.3	19	1.3
Trichloroethene	2.2	ND	ND	ND	ND	0.47	21	0.47

SP-17 Collected on 01/29/2024				NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Metals (mg/Kg)						
Compound	Depth					
	0-2 ft	7.5-10 ft	15-17.5 ft			
Copper	34.4	32.9	57.3	50	270	1720
Lead	187	161	477	63	400	450
Mercury	0.14	1.07	ND	0.18	0.81	0.73
Zinc	41.7	95.9	148	109	10000	2480

SP-19 Collected on 01/29/2024					NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
VOCs (mg/Kg)							
Compound	Depth						
	0-2 ft	4-6 ft	7.5-10 ft	15-17.5 ft			
Tetrachloroethene	ND	18	2	0.013	1.3	19	1.3
Total Xylenes	3.912	ND	ND	ND	0.26	100	1.6
SVOCs (mg/Kg)					NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth						
	7.5-10 ft						
Benz(a)anthracene	4.3		ND		1	1	1
Benzo(a)pyrene	3.8		ND		1	1	22
Benzo(b)fluoranthene	4.7		ND		1	1	1.7
Benzo(k)fluoranthene	1.4		ND		0.8	3.9	1.7
Chrysene	3.8		ND		1	3.9	1
Dibenz(a,h)anthracene	0.4		ND		0.33	0.33	1000
Indeno(1,2,3-cd)pyrene	1.8		ND		0.5	0.5	8.2
Metals (mg/Kg)					NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO
Compound	Depth						
	4-6 ft	7.5-10 ft	15-17.5 ft				
Arsenic	24.1	7.49	1.45		13	16	16
Barium	1000	162	15.2		350	400	820
Cadmium	3.43	0.63	ND		2.5	4.3	7.5
Copper	223	354	7.3		50	270	1720
Lead	7260	124	2.8		63	400	450
Mercury	19	0.21	ND		0.18	0.81	0.73
Nickel	26.9	13.9	33.1		30	310	130
Zinc	659	132	16.5		109	10000	2480

LEGEND

- SOIL BORING / MONITORING WELL LOCATION
- SOIL BORING LOCATION
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND PGSCO
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND RRSCO
- COMPOUNDS DETECTED ABOVE UUSCO, PGSCO AND RRSCO

Structural Engineering Technologies, P.C.
OFFICE
40-12 29th Street
Long Island City, NY 11101
T: (718) 706 - 7296

MARK	DESCRIPTION	DATE

DRAWN BY: GC
REVIEWED BY: GC
APPROVED BY: RA
SUBMITTED BY:
SIZE: ANSI B
ISSUE DATE:
SOLICITATION NO.
CONTRACT NO.

FIGURE 10A
COMPOUNDS DETECTED ABOVE STANDARDS IN SOIL SAMPLES IN LOT 3

BCP Site No. 224386
60-66 Gerry Street
BROOKLYN, NEW YORK
BLOCK 2269, Lots 3 and 5

FIGURE NO.
10A

Technical Approach

This approach combines both biological enhanced reductive dechlorination (ERD) and abiotic *in-situ* chemical reduction (ISCR) degradation pathways for rapid reduction of chlorinated solvents. The self-distributing features of 3-D Microemulsion® (3DME) combined with its longevity (several years) allow for sufficient coverage with minimal pore volume displacement thereby minimizing application costs. Our colloidal zero-valent iron (ZVI) product, Sulfidated-MicroZVI (S-MicroZVI®), will provide a source of iron, creating conditions for abiotic reduction via the formation of iron sulfides, oxides, and hydroxides, while also maintaining strongly reducing conditions in the treatment area both immediately and for an extended timeframe. This will foster rapid abiotic reduction of chlorinated solvents while reducing the potential for daughter product formation compared to a standard *in-situ* bioremediation approach. Bio-Dechlor INOCULUM® Plus (BDI Plus) is added to provide a live microbial culture that is known to fully degrade these compounds.

Treatment Zone Design Parameters

The table below summarizes pertinent treatment zone information used for developing the remedial application design. Where site-specific data were unavailable, default values based on soil type were used.

Target Treatment Zone (TTZ) Info	Unit	Value
Treatment Area	sq ft	4,250
Top Treatment Depth	ft	10.0
Bottom Treatment Depth	ft	32.0
Vertical Treatment Interval	ft	22.0
Treatment Zone Volume	ft^3	93,500
Treatment Zone Volume	cy	3,463
Soil Type	---	sand
Porosity	cm^3/cm^3	0.33
Effective Porosity	cm^3/cm^3	0.20
Treatment Zone Pore Volume	gals	230,811
Treatment Zone Effective Pore Volume	gals	139,886
Fraction Organic Carbon (foc)	g/g	0.002
Soil Density	lb/ft^3	108
Soil Weight	lbs	1.0E+07

Performance Monitoring

While soil samples may not be possible after the construction of the new building on-site, groundwater monitoring can act as a proxy to help determine the effectiveness of the application. Groundwater sampling, which will be discussed here, is assumed to be the only option for post-application monitoring in the treatment area. REGENESIS recommends sampling within two months before any application to establish a baseline. Following the remedial application, REGENESIS recommends sampling monthly for two months following and quarterly after the application. To measure performance at your site, we recommend collecting the following analytical parameters at key wells within the treatment zone of influence and submitting the samples for analysis of the following parameters. Reductions should seen immediately if sampling locations are within 6 feet downgradient of an injection location.

In-Situ Anaerobic Bioremediation Performance Monitoring Parameters	
Analytical Parameter	**Method**
Contaminants of Concern (COC's)	Varies
pH	Meter reading taken in flow-through cell (DO can also be measured with a Hach kit)
Dissolved Oxygen (DO)	
Oxidation Reduction Potential (ORP)	
Total Fe	Colorimetric Hach Method or EPA 6000 series with filtered and unfiltered samples
Total Mn	
Dissolved Fe	
Dissolved Mn	
Sulfate	EPA 375.3 or EPA 9056
Sulfide	EPA 376.1
Nitrate	EPA 353.1 or EPA 9056
Total Organic Carbon (TOC)	EPA 415.1 or EPA 9060
Alkalinity	EPA 310.2
Chloride	EPA 300
Methane, Ethane, Ethene, CO2	ASTM D1945

Pricing

Below is the cost estimate to provide the remediation technologies and execute the design provided in this proposal. Please also see the assumptions and qualifications section.

Description	Price	Qty	Subtotal
3-D Microemulsion® Injection Price increases to $7.00/lb if ordered after April 1st	[redacted]	5200	[redacted]
S-MicroZVI Injection Price Increases to $12.30/lb after April 1st.	[redacted]	3900	[redacted]
Bio-Dechlor Inoculum® Plus Injections Price remains the same.	[redacted]	51	[redacted]
Estimated Injection Materials Shipping and Tax on Products			[redacted]
REGENESIS Remediation Services Budgetary Injection application costs estimate 8 days on site. Includes DPT			[redacted]
3-D Microemulsion® Soil Mixing Price increases to $7.00/lb if ordered after April 1st.	[redacted]	800	[redacted]
S-MicroZVI Soil Mixing Price increases to $12.30/lb after April 1st.	[redacted]	1000	[redacted]
Estimated Soil Mixing Materials Shipping and Tax on Products			[redacted]
Total			[redacted]

COST ESTIMATE DISCLAIMER: The cost listed assumes conditions set forth within the proposed scope of work and assumptions and qualifications. Changes to either could impact the final cost of the project. This may include final shipping arrangements, sales tax, or application-related tasks such as product storage and handling, access to water, etc. If items listed need to be modified, please contact REGENESIS for further evaluation.

REGENESIS developed this Scope of Work in reliance upon the data and professional judgments provided by those who completed the earlier environmental site assessment(s), and in reliance upon REGENESIS' prior experience on similar project sites. The fees and charges associated with the Scope of Work were generated through REGENESIS' proprietary formulas and thus may not conform to billing guidelines, constraints, or other limits on fees. REGENESIS does not seek reimbursement directly from any government agency or any governmental reimbursement fund (the "Government"). In any circumstance where REGENESIS may serve as a supplier or subcontractor to an entity that seeks reimbursement from the Government for all or part of the services performed or products provided by REGENESIS, it is the sole responsibility of the entity seeking reimbursement to ensure the Scope of Work and associated charges are in compliance with and acceptable to the Government prior to submission. When serving as a supplier or subcontractor to an entity that seeks reimbursement from Government, REGENESIS does not knowingly present or cause to be presented any claim for payment to the government.

PROFESSIONAL JUDGEMENT: In generating this estimate, REGENESIS relied upon professional judgment and site-specific information provided by others. Using this information as input, we performed calculations based upon the known chemical and geologic relationships to generate an estimate of the mass of product and subsurface placement required to effect the remediation of the site.

Acknowledgement

This scope and associated costs are budgetary and should not be considered final. Listed below are the next steps to secure a final design and cost estimate from REGENESIS.

Steps to Final Design and Scope of Work

1. Signature notifying REGENESIS to proceed with final design.
2. REGENESIS technical team contacts Touchstone Environmental Geology to review final scope of work and provide detailed design and cost estimate
3. Provide Detailed Remediation Services Scope of Work, if applicable.
4. Confirm Implementation Schedule
5. Submit Detailed Design and Cost Estimate to Touchstone Environmental Geology for review and final approval

Signature below confirms signee accepts this preliminary scope of work and would like REGENESIS to proceed with a detailed design and cost estimate.

SIGNATURE
Rachel Ataman

Not yet accepted

Touchstone Environmental Geology | Rachel Ataman,

Terms & Conditions

1. **PAYMENT TERMS.** Net 30 Days. Accounts outstanding after 30 days will be assessed 1.5% monthly interest. Volume discount pricing will be rescinded on all accounts outstanding over 90 days. An early payment discount of 1.5% Net 10 is available for cash or check payments only. We accept Master Card, Visa and American Express.
2. **RETURN POLICY.** A 15% re-stocking fee will be charged for all returned goods. All requests to return product must be pre-approved by seller. Returned product must be in original condition and no product will be accepted for return after a period of 90 days.
3. **FORCE MAJEURE.** Seller shall not be liable for delays in delivery or services or failure to manufacture or deliver due to causes beyond its reasonable control, including but not limited to acts of God, acts of buyer, acts of military or civil authorities, fires, strikes, flood, epidemic, war, riot, delays in transportation or car shortages, or inability to obtain necessary labor, materials, components or services through seller's usual and regular sources at usual and regular prices. In any such event Seller may, without notice to buyer, at any time and from time to time, postpone the delivery or service dates under this contract or make partial delivery or performance or cancel all or any portion of this and any other contract with buyer without further liability to buyer. Cancellation of any part of this order shall not affect Seller's right to payment for any product delivered or service performed hereunder.
4. **LIMITED WARRANTY.** Seller warrants the product(s) sold and services provided as specified on face of invoice, solely to buyer. Seller makes no other warranty of any kind respecting the product and services, and expressly DISCLAIMS ALL OTHER WARRANTIES OF WHATEVER KIND RESPECTING THE PRODUCT AND SERVICES, INCLUDING ALL WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND NON-INFRINGEMENT.
5. **DISCLAIMER.** Where warranties to a person other than buyer may not be disclaimed under law, seller extends to such a person the same warranty seller makes to buyer as set forth herein, subject to all disclaimers, exclusions and limitations of warranties, all limitations of liability and all other provisions set forth in the Terms and Conditions herein. Buyer agrees to transmit a copy of the Terms and Conditions set forth herein to any and all persons to whom buyer sells, or otherwise furnishes the products and/or services provided buyer by seller and buyer agrees to indemnify seller for any liability, loss, costs and attorneys' fees which seller may incur by reason, in whole or in part, of failure by buyer to transmit the Terms and Conditions as provided herein.
6. **LIMITATION OF SELLER'S LIABILITY AND LIMITATION OF BUYER'S REMEDY.** Seller's liability on any claim of any kind, including negligence, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair or use of any goods or performance of any services covered by or furnished hereunder, shall in no case exceed the lesser of (1) the cost of repairing or replacing goods and repeating the services failing to conform to the foregoing warranty or the price of the goods and/or services or part thereof which gives rise to the claim. IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, OR FOR DAMAGES IN THE NATURE OF PENALTIES.
7. **INDEMNIFICATION.** Buyer agrees to defend and indemnify seller of and from any and all claims or liabilities asserted against seller in connection with the manufacture, sale, delivery, resale or repair or use of any goods, and performance of any services, covered by or furnished hereunder arising in whole or in part out of or by reason of the failure of buyer, its agents, servants, employees or customers to follow instructions, warnings or recommendations furnished by seller in connection with such goods and services, by reason of the failure of buyer, its agents, servants, employees or customers to comply with all federal, state and local laws applicable to such goods and services, or the use thereof, including the Occupational Safety and Health Act of 1970, or by reason of the negligence or misconduct of buyer, its agents, servants, employees or customers.

8. **EXPENSES OF ENFORCEMENT.** In the event seller undertakes any action to collect amounts due from buyer, or otherwise enforce its rights hereunder, Buyer agrees to pay and reimburse Seller for all such expenses, including, without limitation, all attorneys and collection fees.
9. **TAXES.** Liability for all taxes and import or export duties, imposed by any city, state, federal or other governmental authority, shall be assumed and paid by buyer. Buyer further agrees to defend and indemnify seller against any and all liabilities for such taxes or duties and legal fees or costs incurred by seller in connection therewith.
10. **ASSISTANCE AND ADVICE.** Upon request, seller in its discretion will furnish as an accommodation to buyer such technical advice or assistance as is available in reference to the goods and services. Seller assumes no obligation or liability for the advice or assistance given or results obtained, all such advice or assistance being given and accepted at buyer's risk.
11. **SITE SAFETY.** Buyer shall provide a safe working environment at the site of services and shall comply with all applicable provisions of federal, state, provincial and municipal safety laws, building codes, and safety regulations to prevent accidents or injuries to persons on, about or adjacent to the site.
12. **INDEPENDENT CONTRACTOR.** Seller and Buyer are independent contractors and nothing shall be construed to place them in the relationship of partners, principal and agent, employer/employee or joint ventures. Neither party will have the power or right to bind or obligate the other party except as may be expressly agreed and delegated by other party, nor will it hold itself out as having such authority.
13. **REIMBURSEMENT.** Seller shall provide the products and services in reliance upon the data and professional judgments provided by or on behalf of buyer. The fees and charges associated with the products and services thus may not conform to billing guidelines, constraints or other limits on fees. Seller does not seek reimbursement directly from any government agency or any governmental reimbursement fund (the "Government"). In any circumstance where seller may serve as a supplier or subcontractor to an entity that seeks reimbursement from the Government for all or part of the services performed or products provided by seller, it is the sole responsibility of the buyer or other entity seeking reimbursement to ensure the products and services and associated charges are in compliance with and acceptable to the Government prior to submission. When serving as a supplier or subcontractor to an entity that seeks reimbursement from the Government, seller does not knowingly present or cause to be presented any claim for payment to the Government.
14. **APPLICABLE LAW/JURISDICTION AND VENUE.** The rights and duties of the parties shall be governed by, construed, and enforced in accordance with the laws of the State of California (excluding its conflict of laws rules which would refer to and apply the substantive laws of another jurisdiction). Any suit or proceeding hereunder shall be brought exclusively in state or federal courts located in Orange County, California. Each party consents to the personal jurisdiction of said state and federal courts and waives any objection that such courts are an inconvenient forum.
15. **ENTIRE AGREEMENT.** This agreement constitutes the entire contract between buyer and seller relating to the goods or services identified herein. No modifications hereof shall be binding upon the seller unless in writing and signed by seller's duly authorized representative, and no modification shall be effected by seller's acknowledgment or acceptance of buyer's purchase order forms containing different provisions. Trade usage shall neither be applicable nor relevant to this agreement, nor be used in any manner whatsoever to explain, qualify or supplement any of the provisions hereof. No waiver by either party of default shall be deemed a waiver of any subsequent default.

Detailed Design Table

Project Information		
60 Gerry St Brooklyn, NY DPT		
Prepared For:		
Rachel Ataman (Touchstone)		
Application Design Summary		
Treatment Area	**sq ft**	**4250**
Top Treatment Depth	ft bgs	10.0
Bottom Treatment Depth	ft bgs	32.0
Treatment Type	-	**Grid**
Spacing Within Rows	ft	8.0
Spacing Between Rows	ft	30.0
DPT Injection Points	-	**18**
3DME to be Applied	**lbs**	**5,200**
S-MZVI to be Applied	**lbs**	**3,900**
BDI Plus to be Applied	**L**	**51**
Total Application Volume	**gals**	**16,346**
Volume per Point	gals	908
Injection Volume per Foot	gals	41.3
Technical Notes		
Position rows with IPs 8ft apart perpendicular to the flow of groundwater. **Rows 30ft apart.**		
Application Dosing		
3-D Microemulsion to be Applied	**lbs**	**5,200**
S-MZVI to be Applied	**lbs**	**3,900**
BDI Plus to be Applied	**liters**	**51**

Project Information		
60 Gerry St Brooklyn, NY Soil Mixing Prepared For: Rachel Ataman (Touchstone)		
Application Design Summary		
Treatment Area	**sq ft**	**4250**
Top Treatment Depth	ft bgs	12.0
Bottom Treatment Depth	ft bgs	15.0
3DME to be Applied	**lbs**	**800**
S-MZVI to be Applied	**lbs**	**1,000**
Total Application Volume	**gals**	**4,860**
Technical Notes		
Mix reagents into the soil throughout the entire treatment area. Water volumes are suggested and may be reduced or increased as needed.		
Application Dosing		
3-D Microemulsion to be Applied	**lbs**	**800**
S-MZVI to be Applied	**lbs**	**1,000**

Appendix H

Laboratory Data Analytical Results

PHOENIX
Environmental Laboratories, Inc.

Wednesday, January 08, 2025

Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Project ID: 60-66 GERRY ST
SDG ID: GCS37427
Sample ID#s: CS37427 - CS37430

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

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

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

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

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

January 08, 2025

SDG I.D.: GCS37427

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

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

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

NY # 11301

Sample Id Cross Reference

January 08, 2025

SDG I.D.: GCS37427

Project ID: 60-66 GERRY ST

Client Id	Lab Id	Matrix
23MW-5 (10-12`)	CS37427	SOIL
23MW-5 (14-16`)	CS37428	SOIL
23MW-6 (12-14')	CS37429	SOIL
23MW-6 (14-16`)	CS37430	SOIL

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 08, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/27/24	8:55
Location Code:	TOUCHSTONE	Received by:	B	01/02/25	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS37427
Phoenix ID: CS37427

Project ID: 60-66 GERRY ST
Client ID: 23MW-5 (10-12`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Field Extraction	Completed					12/27/24		SW5035A	1
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,1-Trichloroethane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	460	92	ug/Kg	50	01/03/25	JLI	SW8260D	
1,1,2-Trichloroethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloroethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloroethene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloropropene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	460	92	ug/Kg	50	01/03/25	JLI	SW8260D	
1,2,3-Trichloropropane	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	460	92	ug/Kg	50	01/03/25	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	460	92	ug/Kg	50	01/03/25	JLI	SW8260D	
1,2-Dibromoethane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichlorobenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D	
1,2-Dichloroethane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichloropropane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D	
1,3-Dichlorobenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D	
1,3-Dichloropropane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D	
1,4-Dichlorobenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D	
2,2-Dichloropropane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Chlorotoluene	ND	460	92	ug/Kg	50	01/03/25	JLI	SW8260D	
2-Hexanone	ND	23	4.7	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Isopropyltoluene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D	1

Project ID: 60-66 GERRY ST
Client ID: 23MW-5 (10-12`)

Phoenix I.D.: CS37427

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	23	4.7	ug/Kg	1	01/03/25	JLI	SW8260D
Acetone	ND	23	4.7	ug/Kg	1	01/03/25	JLI	SW8260D
Acrylonitrile	ND	9.3	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Benzene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Bromobenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
Bromochloromethane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Bromodichloromethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Bromoform	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Bromomethane	ND	4.7	1.9	ug/Kg	1	01/03/25	JLI	SW8260D
Carbon Disulfide	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Carbon tetrachloride	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Chlorobenzene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Chloroethane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Chloroform	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Chloromethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
cis-1,2-Dichloroethene	210	180	46	ug/Kg	50	01/03/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Dibromochloromethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Dibromomethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Dichlorodifluoromethane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Ethylbenzene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Hexachlorobutadiene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
Isopropylbenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
m&p-Xylene	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Methyl Ethyl Ketone	ND	23	4.7	ug/Kg	1	01/03/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	9.3	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Methylene chloride	ND	9.3	4.7	ug/Kg	1	01/03/25	JLI	SW8260D
Naphthalene	210	180	92	ug/Kg	50	01/03/25	JLI	SW8260D
n-Butylbenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
n-Propylbenzene	ND	460	92	ug/Kg	50	01/03/25	JLI	SW8260D
o-Xylene	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
p-Isopropyltoluene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
sec-Butylbenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
Styrene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
tert-Butylbenzene	ND	460	46	ug/Kg	50	01/03/25	JLI	SW8260D
Tetrachloroethene	4200	460	92	ug/Kg	50	01/03/25	JLI	SW8260D
Tetrahydrofuran (THF)	ND	9.3	2.3	ug/Kg	1	01/03/25	JLI	SW8260D
Toluene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Total Xylenes	ND	4.7	4.7	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	920	230	ug/Kg	50	01/03/25	JLI	SW8260D
Trichloroethene	310	280	46	ug/Kg	50	01/03/25	JLI	SW8260D
Trichlorofluoromethane	ND	4.7	0.93	ug/Kg	1	01/03/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
Vinyl chloride	ND	4.7	0.47	ug/Kg	1	01/03/25	JLI	SW8260D
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99			%	1	01/03/25	JLI	70 - 130 %

Project ID: 60-66 GERRY ST
Client ID: 23MW-5 (10-12`)

Phoenix I.D.: CS37427

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	83			%	1	01/03/25	JLI	70 - 130 %
% Dibromofluoromethane	95			%	1	01/03/25	JLI	70 - 130 %
% Toluene-d8	92			%	1	01/03/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	104			%	50	01/03/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	95			%	50	01/03/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99			%	50	01/03/25	JLI	70 - 130 %
% Toluene-d8 (50x)	100			%	50	01/03/25	JLI	70 - 130 %

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

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

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 08, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 08, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/27/24	8:59
Location Code:	TOUCHSTONE	Received by:	B	01/02/25	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS37427
Phoenix ID: CS37428

Project ID: 60-66 GERRY ST
Client ID: 23MW-5 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Field Extraction	Completed					12/27/24		SW5035A	1
Volatiles									
1,1,1,2-Tetrachloroethane	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,1,1-Trichloroethane	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,1,2-Trichloroethane	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,1-Dichloroethane	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,1-Dichloroethene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,1-Dichloropropene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2,3-Trichloropropane	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2-Dibromoethane	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2-Dichloroethane	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,2-Dichloropropane	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,3-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
1,3-Dichloropropane	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
1,4-Dichlorobenzene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
2,2-Dichloropropane	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	
2-Chlorotoluene	ND	3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D	
2-Hexanone	ND	20	3.9	ug/Kg	1	01/04/25	JLI	SW8260D	
2-Isopropyltoluene	ND	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D	1

Project ID: 60-66 GERRY ST
Client ID: 23MW-5 (14-16`)

Phoenix I.D.: CS37428

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
4-Methyl-2-pentanone	ND		20	3.9	ug/Kg	1	01/04/25	JLI	SW8260D
Acetone	12	JS	20	3.9	ug/Kg	1	01/04/25	JLI	SW8260D
Acrylonitrile	ND		7.8	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Benzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Bromobenzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Bromochloromethane	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Bromodichloromethane	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Bromoform	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Bromomethane	ND		3.9	1.6	ug/Kg	1	01/04/25	JLI	SW8260D
Carbon Disulfide	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Carbon tetrachloride	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Chlorobenzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Chloroethane	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Chloroform	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Chloromethane	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
cis-1,2-Dichloroethene	240		210	41	ug/Kg	50	01/03/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Dibromochloromethane	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Dibromomethane	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Dichlorodifluoromethane	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Ethylbenzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Hexachlorobutadiene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Isopropylbenzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
m&p-Xylene	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Methyl Ethyl Ketone	ND		20	3.9	ug/Kg	1	01/04/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND		7.8	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Methylene chloride	ND		7.8	3.9	ug/Kg	1	01/04/25	JLI	SW8260D
Naphthalene	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
n-Butylbenzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
n-Propylbenzene	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
o-Xylene	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
p-Isopropyltoluene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
sec-Butylbenzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Styrene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
tert-Butylbenzene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Tetrachloroethene	5.3		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Tetrahydrofuran (THF)	ND		7.8	2.0	ug/Kg	1	01/04/25	JLI	SW8260D
Toluene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Total Xylenes	ND		3.9	3.9	ug/Kg	1	01/04/25	JLI	SW8260D
trans-1,2-Dichloroethene	0.71	J	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND		7.8	2.0	ug/Kg	1	01/04/25	JLI	SW8260D
Trichloroethene	1.2	J	3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Trichlorofluoromethane	ND		3.9	0.78	ug/Kg	1	01/04/25	JLI	SW8260D
Trichlorotrifluoroethane	ND		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
Vinyl chloride	72		3.9	0.39	ug/Kg	1	01/04/25	JLI	SW8260D
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	96				%	1	01/04/25	JLI	70 - 130 %

Project ID: 60-66 GERRY ST
Client ID: 23MW-5 (14-16`)

Phoenix I.D.: CS37428

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	99			%	1	01/04/25	JLI	70 - 130 %
% Dibromofluoromethane	91			%	1	01/04/25	JLI	70 - 130 %
% Toluene-d8	93			%	1	01/04/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	106			%	50	01/03/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	95			%	50	01/03/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99			%	50	01/03/25	JLI	70 - 130 %
% Toluene-d8 (50x)	101			%	50	01/03/25	JLI	70 - 130 %

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

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

Comments:

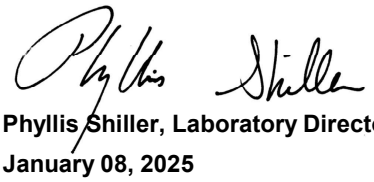
Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

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

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
January 08, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 08, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/27/24	10:10
Location Code:	TOUCHSTONE	Received by:	B	01/02/25	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS37427
Phoenix ID: CS37429

Project ID: 60-66 GERRY ST
Client ID: 23MW-6 (12-14')

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Field Extraction	Completed					12/27/24		SW5035A	1
Volatiles									
1,1,1,2-Tetrachloroethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,1-Trichloroethane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,2-Trichloroethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloroethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloroethene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloropropene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,3-Trichloropropane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dibromoethane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichloroethane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichloropropane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,3-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
1,3-Dichloropropane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
1,4-Dichlorobenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
2,2-Dichloropropane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Chlorotoluene	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Hexanone	ND	22	4.4	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Isopropyltoluene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D	1

Project ID: 60-66 GERRY ST
Client ID: 23MW-6 (12-14')

Phoenix I.D.: CS37429

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	22	4.4	ug/Kg	1	01/03/25	JLI	SW8260D
Acetone	ND	22	4.4	ug/Kg	1	01/03/25	JLI	SW8260D
Acrylonitrile	ND	8.7	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Benzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Bromobenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Bromochloromethane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Bromodichloromethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Bromoform	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Bromomethane	ND	4.4	1.7	ug/Kg	1	01/03/25	JLI	SW8260D
Carbon Disulfide	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Carbon tetrachloride	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Chlorobenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Chloroethane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Chloroform	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Chloromethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Dibromochloromethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Dibromomethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Dichlorodifluoromethane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Ethylbenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Hexachlorobutadiene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Isopropylbenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
m&p-Xylene	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Methyl Ethyl Ketone	ND	22	4.4	ug/Kg	1	01/03/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	8.7	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Methylene chloride	ND	8.7	4.4	ug/Kg	1	01/03/25	JLI	SW8260D
Naphthalene	210	200	81	ug/Kg	50	01/03/25	JLI	SW8260D
n-Butylbenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
n-Propylbenzene	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
o-Xylene	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
p-Isopropyltoluene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
sec-Butylbenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Styrene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
tert-Butylbenzene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Tetrachloroethene	17	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Tetrahydrofuran (THF)	ND	8.7	2.2	ug/Kg	1	01/03/25	JLI	SW8260D
Toluene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Total Xylenes	ND	4.4	4.4	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	8.7	2.2	ug/Kg	1	01/03/25	JLI	SW8260D
Trichloroethene	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Trichlorofluoromethane	ND	4.4	0.87	ug/Kg	1	01/03/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
Vinyl chloride	ND	4.4	0.44	ug/Kg	1	01/03/25	JLI	SW8260D
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98			%	1	01/03/25	JLI	70 - 130 %

Ver 1

Project ID: 60-66 GERRY ST
Client ID: 23MW-6 (12-14')

Phoenix I.D.: CS37429

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	92			%	1	01/03/25	JLI	70 - 130 %
% Dibromofluoromethane	92			%	1	01/03/25	JLI	70 - 130 %
% Toluene-d8	96			%	1	01/03/25	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	105			%	50	01/03/25	JLI	70 - 130 %
% Bromofluorobenzene (50x)	94			%	50	01/03/25	JLI	70 - 130 %
% Dibromofluoromethane (50x)	98			%	50	01/03/25	JLI	70 - 130 %
% Toluene-d8 (50x)	101			%	50	01/03/25	JLI	70 - 130 %

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

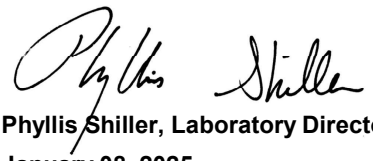
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis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

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
January 08, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 08, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/27/24	10:05
Location Code:	TOUCHSTONE	Received by:	B	01/02/25	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS37427
Phoenix ID: CS37430

Project ID: 60-66 GERRY ST
Client ID: 23MW-6 (14-16`)

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Field Extraction	Completed					12/27/24		SW5035A	1
Volatiles									
1,1,1,2-Tetrachloroethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,1-Trichloroethane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,2,2-Tetrachloroethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1,2-Trichloroethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloroethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloroethene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,1-Dichloropropene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,3-Trichlorobenzene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,3-Trichloropropane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,4-Trichlorobenzene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2,4-Trimethylbenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dibromo-3-chloropropane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dibromoethane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichloroethane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,2-Dichloropropane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,3,5-Trimethylbenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,3-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
1,3-Dichloropropane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
1,4-Dichlorobenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
2,2-Dichloropropane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Chlorotoluene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Hexanone	ND	19	3.8	ug/Kg	1	01/03/25	JLI	SW8260D	
2-Isopropyltoluene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D	1

Project ID: 60-66 GERRY ST
Client ID: 23MW-6 (14-16`)

Phoenix I.D.: CS37430

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
4-Methyl-2-pentanone	ND	19	3.8	ug/Kg	1	01/03/25	JLI	SW8260D
Acetone	ND	19	3.8	ug/Kg	1	01/03/25	JLI	SW8260D
Acrylonitrile	ND	7.6	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Benzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Bromobenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Bromochloromethane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Bromodichloromethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Bromoform	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Bromomethane	ND	3.8	1.5	ug/Kg	1	01/03/25	JLI	SW8260D
Carbon Disulfide	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Carbon tetrachloride	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Chlorobenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Chloroethane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Chloroform	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Chloromethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
cis-1,2-Dichloroethene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
cis-1,3-Dichloropropene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Dibromochloromethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Dibromomethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Dichlorodifluoromethane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Ethylbenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Hexachlorobutadiene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Isopropylbenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
m&p-Xylene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Methyl Ethyl Ketone	ND	19	3.8	ug/Kg	1	01/03/25	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	7.6	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Methylene chloride	ND	7.6	3.8	ug/Kg	1	01/03/25	JLI	SW8260D
Naphthalene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
n-Butylbenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
n-Propylbenzene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
o-Xylene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
p-Isopropyltoluene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
sec-Butylbenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Styrene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
tert-Butylbenzene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Tetrachloroethene	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Tetrahydrofuran (THF)	ND	7.6	1.9	ug/Kg	1	01/03/25	JLI	SW8260D
Toluene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Total Xylenes	ND	3.8	3.8	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,2-Dichloroethene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,3-Dichloropropene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	7.6	1.9	ug/Kg	1	01/03/25	JLI	SW8260D
Trichloroethene	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Trichlorofluoromethane	ND	3.8	0.76	ug/Kg	1	01/03/25	JLI	SW8260D
Trichlorotrifluoroethane	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
Vinyl chloride	ND	3.8	0.38	ug/Kg	1	01/03/25	JLI	SW8260D
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100			%	1	01/03/25	JLI	70 - 130 %

Project ID: 60-66 GERRY ST
Client ID: 23MW-6 (14-16`)

Phoenix I.D.: CS37430

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97			%	1	01/03/25	JLI	70 - 130 %
% Dibromofluoromethane	96			%	1	01/03/25	JLI	70 - 130 %
% Toluene-d8	97			%	1	01/03/25	JLI	70 - 130 %

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

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

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

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Phyllis Shiller, Laboratory Director
January 08, 2025
Reviewed and Released by: Rashmi Makol, Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 08, 2025

QA/QC Data

SDG I.D.: GCS37427

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 765199 (ug/kg), QC Sample No: CS37221 (CS37427, CS37429, CS37430)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	92	102	10.3	100	103	3.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	86	99	14.1	101	100	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	87	99	12.9	127	121	4.8	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	86	99	14.1	93	94	1.1	70 - 130	30	
1,1-Dichloroethane	ND	5.0	83	95	13.5	101	98	3.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	84	97	14.4	100	97	3.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	89	100	11.6	96	95	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	87	98	11.9	47	52	10.1	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	84	95	12.3	121	117	3.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	87	98	11.9	51	59	14.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	89	99	10.6	103	105	1.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	95	106	10.9	103	104	1.0	70 - 130	30	
1,2-Dibromoethane	ND	5.0	90	103	13.5	102	100	2.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	87	98	11.9	88	92	4.4	70 - 130	30	
1,2-Dichloroethane	ND	5.0	84	96	13.3	95	94	1.1	70 - 130	30	
1,2-Dichloropropane	ND	5.0	86	99	14.1	100	98	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	89	99	10.6	106	107	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	87	97	10.9	90	93	3.3	70 - 130	30	
1,3-Dichloropropane	ND	5.0	89	101	12.6	108	107	0.9	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	86	97	12.0	89	91	2.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	85	100	16.2	103	102	1.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	87	98	11.9	109	107	1.9	70 - 130	30	
2-Hexanone	ND	25	84	96	13.3	95	95	0.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	92	103	11.3	97	101	4.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	86	98	13.0	103	103	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	87	97	10.9	90	93	3.3	70 - 130	30	
Acetone	ND	10	69	76	9.7	99	126	24.0	70 - 130	30	I
Acrylonitrile	ND	5.0	82	95	14.7	88	88	0.0	70 - 130	30	
Benzene	ND	1.0	87	99	12.9	99	98	1.0	70 - 130	30	
Bromobenzene	ND	5.0	87	96	9.8	111	107	3.7	70 - 130	30	
Bromochloromethane	ND	5.0	84	93	10.2	95	94	1.1	70 - 130	30	
Bromodichloromethane	ND	5.0	86	98	13.0	91	94	3.2	70 - 130	30	
Bromoform	ND	5.0	90	104	14.4	84	91	8.0	70 - 130	30	
Bromomethane	ND	5.0	83	94	12.4	100	91	9.4	70 - 130	30	
Carbon Disulfide	ND	5.0	87	99	12.9	92	89	3.3	70 - 130	30	
Carbon tetrachloride	ND	5.0	84	96	13.3	88	88	0.0	70 - 130	30	
Chlorobenzene	ND	5.0	88	98	10.8	95	94	1.1	70 - 130	30	
Chloroethane	ND	5.0	84	95	12.3	104	100	3.9	70 - 130	30	
Chloroform	ND	5.0	82	94	13.6	98	96	2.1	70 - 130	30	
Chloromethane	ND	5.0	83	94	12.4	102	96	6.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	84	96	13.3	97	96	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCS37427

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	5.0	91	106	15.2	93	95	2.1	70 - 130	30	
Dibromochloromethane	ND	3.0	91	103	12.4	101	101	0.0	70 - 130	30	
Dibromomethane	ND	5.0	85	97	13.2	90	91	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	90	101	11.5	105	101	3.9	70 - 130	30	
Ethylbenzene	ND	1.0	90	99	9.5	97	96	1.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	90	102	12.5	40	47	16.1	70 - 130	30	m
Isopropylbenzene	ND	1.0	91	99	8.4	117	115	1.7	70 - 130	30	
m&p-Xylene	ND	2.0	88	98	10.8	94	96	2.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	78	87	10.9	91	97	6.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	84	96	13.3	105	103	1.9	70 - 130	30	
Methylene chloride	ND	5.0	76	87	13.5	96	91	5.3	70 - 130	30	
Naphthalene	ND	5.0	91	102	11.4	61	66	7.9	70 - 130	30	m
n-Butylbenzene	ND	1.0	90	99	9.5	75	82	8.9	70 - 130	30	
n-Propylbenzene	ND	1.0	88	99	11.8	107	105	1.9	70 - 130	30	
o-Xylene	ND	2.0	89	99	10.6	93	95	2.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	91	101	10.4	89	94	5.5	70 - 130	30	
sec-Butylbenzene	ND	1.0	91	101	10.4	89	95	6.5	70 - 130	30	
Styrene	ND	5.0	90	99	9.5	83	89	7.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	90	101	11.5	101	104	2.9	70 - 130	30	
Tetrachloroethene	ND	5.0	87	96	9.8	79	84	6.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	83	96	14.5	92	93	1.1	70 - 130	30	
Toluene	ND	1.0	86	97	12.0	91	92	1.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	84	97	14.4	94	91	3.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	94	110	15.7	89	92	3.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	104	119	13.5	117	116	0.9	70 - 130	30	
Trichloroethene	ND	5.0	89	100	11.6	94	91	3.2	70 - 130	30	
Trichlorofluoromethane	ND	5.0	82	91	10.4	96	93	3.2	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	87	98	11.9	95	96	1.0	70 - 130	30	
Vinyl chloride	ND	5.0	85	95	11.1	100	94	6.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	101	101	0.0	99	98	1.0	70 - 130	30	
% Bromofluorobenzene	98	%	100	100	0.0	87	89	2.3	70 - 130	30	
% Dibromofluoromethane	91	%	93	93	0.0	99	97	2.0	70 - 130	30	
% Toluene-d8	97	%	98	100	2.0	94	95	1.1	70 - 130	30	
QA/QC Batch 765026H (ug/kg), QC Sample No: CS37395 50X (CS37427 (50X) , CS37428 (50X) , CS37429 (50X))											
Volatiles - Soil (High Level)											
1,1,2,2-Tetrachloroethane	ND	250	94	96	2.1	97	95	2.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	114	114	0.0	109	112	2.7	70 - 130	30	
1,2,3-Trichloropropane	ND	250	90	93	3.3	96	93	3.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	121	120	0.8	111	113	1.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	110	111	0.9	108	107	0.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	95	99	4.1	95	91	4.3	70 - 130	30	
1,2-Dichlorobenzene	ND	250	100	102	2.0	101	101	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	108	109	0.9	107	106	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	250	103	103	0.0	101	101	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	250	101	102	1.0	100	101	1.0	70 - 130	30	
2-Chlorotoluene	ND	250	105	105	0.0	103	102	1.0	70 - 130	30	
2-Isopropyltoluene	ND	250	108	109	0.9	107	106	0.9	70 - 130	30	
4-Chlorotoluene	ND	250	105	105	0.0	103	102	1.0	70 - 130	30	
Bromobenzene	ND	250	98	99	1.0	99	97	2.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	92	96	4.3	96	95	1.0	70 - 130	30	
Hexachlorobutadiene	ND	250	111	111	0.0	105	106	0.9	70 - 130	30	
Isopropylbenzene	ND	250	108	110	1.8	108	107	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GCS37427

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Naphthalene	ND	250	120	121	0.8	119	119	0.0	70 - 130	30	
n-Butylbenzene	ND	250	113	113	0.0	107	107	0.0	70 - 130	30	
n-Propylbenzene	ND	250	106	106	0.0	104	102	1.9	70 - 130	30	
p-Isopropyltoluene	ND	250	114	114	0.0	110	109	0.9	70 - 130	30	
sec-Butylbenzene	ND	250	108	109	0.9	107	106	0.9	70 - 130	30	
tert-Butylbenzene	ND	250	107	109	1.9	107	106	0.9	70 - 130	30	
Tetrachloroethene	ND	250	104	104	0.0	102	102	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	100	100	0.0	96	94	2.1	70 - 130	30	
Trichloroethene	ND	250	97	97	0.0	97	96	1.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	%	100	101	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	101	100	1.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	96	%	94	95	1.1	94	95	1.1	70 - 130	30	
% Toluene-d8	100	%	100	101	1.0	101	101	0.0	70 - 130	30	
QA/QC Batch 765329 (ug/kg), QC Sample No: CS38033 (CS37428)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	106	105	0.9	87	86	1.2	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	103	104	1.0	86	90	4.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	103	105	1.9	86	85	1.2	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	107	111	3.7	91	91	0.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	100	101	1.0	83	87	4.7	70 - 130	30	
1,1-Dichloroethene	ND	5.0	99	101	2.0	84	86	2.4	70 - 130	30	
1,1-Dichloropropene	ND	5.0	108	106	1.9	91	91	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	110	110	0.0	89	84	5.8	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	101	104	2.9	88	88	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	102	102	0.0	83	80	3.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	102	101	1.0	86	85	1.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	113	115	1.8	91	95	4.3	70 - 130	30	
1,2-Dibromoethane	ND	5.0	106	108	1.9	90	88	2.2	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	108	108	0.0	91	89	2.2	70 - 130	30	
1,2-Dichloroethane	ND	5.0	107	106	0.9	91	89	2.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	108	108	0.0	91	91	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	105	104	1.0	91	90	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	103	102	1.0	86	84	2.4	70 - 130	30	
1,3-Dichloropropane	ND	5.0	104	106	1.9	90	88	2.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	108	105	2.8	89	86	3.4	70 - 130	30	
2,2-Dichloropropane	ND	5.0	104	101	2.9	77	81	5.1	70 - 130	30	
2-Chlorotoluene	ND	5.0	107	106	0.9	91	91	0.0	70 - 130	30	
2-Hexanone	ND	25	102	104	1.9	85	80	6.1	70 - 130	30	
2-Isopropyltoluene	ND	5.0	111	109	1.8	94	93	1.1	70 - 130	30	
4-Chlorotoluene	ND	5.0	105	104	1.0	88	85	3.5	70 - 130	30	
4-Methyl-2-pentanone	ND	25	111	111	0.0	95	90	5.4	70 - 130	30	
Acetone	ND	10	86	90	4.5	64	72	11.8	70 - 130	30	m
Acrylonitrile	ND	5.0	101	104	2.9	80	81	1.2	70 - 130	30	
Benzene	ND	1.0	103	102	1.0	88	87	1.1	70 - 130	30	
Bromobenzene	ND	5.0	108	106	1.9	91	92	1.1	70 - 130	30	
Bromochloromethane	ND	5.0	98	97	1.0	80	82	2.5	70 - 130	30	
Bromodichloromethane	ND	5.0	107	106	0.9	90	88	2.2	70 - 130	30	
Bromoform	ND	5.0	102	103	1.0	83	82	1.2	70 - 130	30	
Bromomethane	ND	5.0	97	96	1.0	81	85	4.8	70 - 130	30	
Carbon Disulfide	ND	5.0	97	97	0.0	80	84	4.9	70 - 130	30	
Carbon tetrachloride	ND	5.0	101	103	2.0	81	85	4.8	70 - 130	30	
Chlorobenzene	ND	5.0	105	105	0.0	91	89	2.2	70 - 130	30	

QA/QC Data

SDG I.D.: GCS37427

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloroethane	ND	5.0	98	97	1.0	82	85	3.6	70 - 130	30
Chloroform	ND	5.0	98	98	0.0	82	85	3.6	70 - 130	30
Chloromethane	ND	5.0	110	109	0.9	87	93	6.7	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	111	111	0.0	92	90	2.2	70 - 130	30
Dibromochloromethane	ND	3.0	105	108	2.8	89	86	3.4	70 - 130	30
Dibromomethane	ND	5.0	110	110	0.0	93	90	3.3	70 - 130	30
Dichlorodifluoromethane	ND	5.0	103	97	6.0	79	84	6.1	70 - 130	30
Ethylbenzene	ND	1.0	103	101	2.0	89	87	2.3	70 - 130	30
Hexachlorobutadiene	ND	5.0	115	112	2.6	90	92	2.2	70 - 130	30
Isopropylbenzene	ND	1.0	106	105	0.9	90	92	2.2	70 - 130	30
m&p-Xylene	ND	2.0	98	98	0.0	85	83	2.4	70 - 130	30
Methyl ethyl ketone	ND	5.0	94	96	2.1	81	80	1.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	101	103	2.0	86	87	1.2	70 - 130	30
Methylene chloride	ND	5.0	91	90	1.1	76	78	2.6	70 - 130	30
Naphthalene	ND	5.0	108	109	0.9	90	88	2.2	70 - 130	30
n-Butylbenzene	ND	1.0	112	111	0.9	93	91	2.2	70 - 130	30
n-Propylbenzene	ND	1.0	106	105	0.9	91	91	0.0	70 - 130	30
o-Xylene	ND	2.0	100	100	0.0	87	84	3.5	70 - 130	30
p-Isopropyltoluene	ND	1.0	109	108	0.9	91	90	1.1	70 - 130	30
sec-Butylbenzene	ND	1.0	106	105	0.9	90	91	1.1	70 - 130	30
Styrene	ND	5.0	99	99	0.0	85	82	3.6	70 - 130	30
tert-Butylbenzene	ND	1.0	107	107	0.0	92	92	0.0	70 - 130	30
Tetrachloroethene	ND	5.0	113	109	3.6	95	93	2.1	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	102	107	4.8	89	88	1.1	70 - 130	30
Toluene	ND	1.0	106	104	1.9	89	88	1.1	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	108	95	12.8	87	89	2.3	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	110	110	0.0	89	87	2.3	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	106	109	2.8	81	80	1.2	70 - 130	30
Trichloroethene	ND	5.0	106	106	0.0	93	93	0.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	99	98	1.0	83	85	2.4	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	107	107	0.0	92	93	1.1	70 - 130	30
Vinyl chloride	ND	5.0	99	97	2.0	80	85	6.1	70 - 130	30
% 1,2-dichlorobenzene-d4	95	%	102	102	0.0	101	101	0.0	70 - 130	30
% Bromofluorobenzene	99	%	100	100	0.0	99	99	0.0	70 - 130	30
% Dibromofluoromethane	102	%	96	94	2.1	92	96	4.3	70 - 130	30
% Toluene-d8	91	%	103	103	0.0	101	102	1.0	70 - 130	30

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

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

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

Phyllis Shiller, Laboratory Director
January 08, 2025

Wednesday, January 08, 2025

Criteria: NY: 375

State: NY

Sample Criteria Exceedances Report

GCS37427 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS37427	$8260SMRNY	Tetrachloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	4200	460	1300	1300	ug/Kg
CS37428	$8260SMRNY	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	72	3.9	20	20	ug/Kg

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

January 08, 2025

SDG I.D.: GCS37427

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

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

CT/MA/RI CHAIN OF CUSTODY RECORD

Temp 1.6 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email:

Customer: Touchstone
Address:
Project: 60-66 Gerry St
Report to: Touchstone
Invoice to:
Quote #
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature
Client Sample - Information - Identification
Date: 12/27/24

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	VOCs EPA 8260	GL Amber 8 oz. [ ] w/H_3PO_4 [ ] $NAHSO_4$	Soil VOA Vials [ ] methanol [ ] H_2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H_2SO_4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H_2SO_4 [ ] 250ml [ ] 500ml	PL HNO_3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
37427	23MW-5 (10-12')	S	12/27/24	855		X									3			
37428	23MW-5(14-16')	↓	↓	859		↓									↓			
37429	23MW-6(			1010														
37430	23MW-6(14-16')	↓	↓	1005		↓									↓			

Relinquished by:	Accepted by:	Date:	Time:
		12/27	1300
		12/28/25	1650

Comments, Special Requirements or Regulations:
Compare to NYSDEC UUSCO

Turnaround Time:
☐ 1 Day* ☒ Standard
☐ 2 Days* ☐ Other
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

* SURCHARGES MAY APPLY

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☐ Other

CT
☐ RCP Cert
☐ GWPC
☐ SWPC
☐ GA PMC
☐ GB PMC
☐ SWPC
☐ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ S-1 Calc.
☐ S-1
☐ S-2 ☐ _____
☐ S-3
☐ SW Protection

State where samples were collected: NY

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☐ Phoenix Std
☐ Other

* SURCHARGE APPLIES

Sarah Bell

From: Michael Lapman
Sent: Friday, January 03, 2025 4:04 PM
To: Sarah Bell
Subject: FW: GCS37427 - 60-66 GERRY ST

Sarah:

Please see the below..

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
www.phoenixlabs.com

This message, including any attachments hereto, may contain privileged or confidential information and is sent solely for the attention and use of the intended addressee(s). If you are not an intended addressee, you may neither use this message nor copy or deliver it to anyone. In such case, you should immediately destroy this message and kindly notify the sender by reply email. Thank you.

From: Gabrielle Castro <gabriellecastro@touchstoneenvironmental.com>
Date: Friday, January 3, 2025 at 3:55 PM
To: Michael Lapman <michael@phoenixlabs.com>
Subject: GCS37427 - 60-66 GERRY ST

Hello Michael,

Can we get the ASPB data package for the GCS37427 SDG?

Also, I was reviewing the chain and noticed a depth isn't listed for the 37429 sample, my apologies. Can this sample be renamed 23MW-6 (12-14')?

Thank you,

Gabrielle Castro
Project Manager
P: (631) 315-2732

PHOENIX
Environmental Laboratories, Inc.

Tuesday, January 21, 2025

Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Project ID: 60 GERRY ST.
SDG ID: GCS40379
Sample ID#s: CS40379 - CS40385

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

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

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

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

January 21, 2025

SDG I.D.: GCS40379

The regulatory hold time for Filtration is 24 hours. Filtration was performed in the laboratory and may be considered outside of hold-time.

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

SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

Toxaphene is reported to the lowest possible reporting level. The NY TOGS criteria for this compound can not be achieved.

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

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

January 21, 2025

SDG I.D.: GCS40379

Project ID: 60 GERRY ST.

Client Id	Lab Id	Matrix	Col Date
23MW-4S	CS40379	GROUND WATER	01/07/25 12:15
23MW-4D	CS40380	GROUND WATER	01/07/25 14:45
23MW-1	CS40381	GROUND WATER	01/07/25 16:00
23MW-2	CS40382	GROUND WATER	01/07/25 17:00
TRIP BLANK	CS40383	WATER	01/07/25 0:00
FIELD BLANK	CS40384	WATER	01/07/25 0:00
PFAS FIELD BLANK	CS40385	WATER	01/07/25 0:00

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 21, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/07/25	12:15
Location Code:	TOUCHSTONE	Received by:	SR1	01/08/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS40379
Phoenix ID: CS40379

Project ID: 60 GERRY ST.
Client ID: 23MW-4S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum	11.0	0.020	0.01	mg/L	1	01/10/25	TH	SW6010D
Arsenic	0.009	0.004	0.004	mg/L	1	01/10/25	TH	SW6010D
Barium	0.248	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Calcium	412	0.10	0.10	mg/L	10	01/10/25	CPP	SW6010D
Cadmium	0.001	0.001	0.0005	mg/L	1	01/10/25	TH	SW6010D
Cobalt	0.010	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Chromium	0.028	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Copper	0.046	0.005	0.001	mg/L	1	01/10/25	TH	SW6010D
Silver (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum (Dissolved)	0.019	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Arsenic (Dissolved)	ND	0.004	0.004	mg/L	1	01/10/25	CPP	SW6010D
Barium (Dissolved)	0.079	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Calcium (Dissolved)	394	0.11	0.11	mg/L	10	01/14/25	TH	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	01/10/25	CPP	SW6010D
Cobalt (Dissolved)	0.002	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Copper (Dissolved)	0.004 J	0.005	0.001	mg/L	1	01/10/25	CPP	SW6010D
Iron (Dissolved)	0.078	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	01/15/25	JM	SW7470A
Potassium (Dissolved)	17.7	1.1	0.11	mg/L	10	01/14/25	TH	SW6010D
Magnesium (Dissolved)	31.0	0.01	0.01	mg/L	1	01/10/25	CPP	SW6010D
Manganese (Dissolved)	2.46	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Sodium (Dissolved)	77.0	1.1	0.11	mg/L	10	01/14/25	TH	SW6010D
Nickel (Dissolved)	0.022	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Lead (Dissolved)	0.002 J	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D

Ver 1

Project ID: 60 GERRY ST.
Client ID: 23MW-4S

Phoenix I.D.: CS40379

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	01/10/25	CPP	SW6010D	
Selenium (Dissolved)	ND	0.010	0.010	mg/L	1	01/10/25	CPP	SW6010D	
Thallium (Dissolved)	ND	0.0005	0.0005	mg/L	1	01/14/25	ZT	SW7010	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	01/10/25	MGH	SW6020B	
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D	
Zinc (Dissolved)	0.013	0.002	0.0012	mg/L	1	01/10/25	CPP	SW6010D	
Iron	67.5	0.010	0.01	mg/L	1	01/10/25	TH	SW6010D	
Mercury	0.0002	J 0.0002	0.00015	mg/L	1	01/09/25	ZT	SW7470A	
Potassium	20.6	1.0	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Magnesium	34.4	0.010	0.01	mg/L	1	01/10/25	CPP	SW6010D	
Manganese	2.94	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Sodium	82.8	1.0	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Nickel	0.042	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Lead	0.164	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Antimony	ND	0.003	0.003	mg/L	1	01/10/25	TH	SW6010D	
Selenium	ND	0.010	0.01	mg/L	1	01/10/25	TH	SW6010D	
Thallium	ND	0.0005	0.0005	mg/L	5	01/10/25	MGH	SW6020B	
Vanadium	0.046	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D	
Zinc	0.181	0.004	0.0011	mg/L	1	01/10/25	TH	SW6010D	
Alkalinity-CaCO3	347	100		mg/L	5	01/09/25	MW	SM2320B-11	
Chloride	84.9	10.0	6	mg/L	2	01/09/25	DD/GD	E300.0	
Nitrate as Nitrogen	ND	0.05	0.01	mg/L	1	01/08/25 17:43	DD/GD	E300.0	
pH	7.11	1.00	1.00	pH Units	1	01/09/25 00:16	MW	SM4500-H B-11	1
Redox Potential	175			mV	1	01/09/25	MW	SM2580B-09	1
Sulfate	757	125	62.5	mg/L	25	01/09/25	DD/GD	E300.0	
Lab Filtration	Completed					01/09/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					01/14/25	AK/AK/GW	SW7470A	
Mercury Digestion	Completed					01/09/25	AK/AK	SW7470A	
PCB Extraction (LDL)	Completed					01/10/25	A/A	SW3510C	
Extraction for Pest (LDL)	Completed					01/10/25	A/A	SW3510C	
Semi-Volatile Extraction	Completed					01/08/25	Z/MQ	SW3520C	
Total Metals Digestion (GFAA)	Completed					01/09/25	AG	SM3113B-10	
Dissolved Metals Preparation	Completed					01/09/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					01/09/25	AG	SW3005A	
Total Metals Digestion	Completed					01/09/25	AG	SW3010A	
Total Metals Digestion MS	Completed					01/09/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed					01/13/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	8.09	1.48	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	8.21	2.19	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	8.02	1.91	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	8.13	8.02	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	5.35	2.17	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	26.7	7.84	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	26.7	10.1	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	8.00	0.749	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
ADONA	ND	8.09	0.567	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND	8.56	3.45	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
NEtFOSA	ND		2.14	1.93	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.14	1.10	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		21.4	4.27	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.28	2.29	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.14	1.69	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.14	0.845	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		21.4	4.27	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		2.06	1.41	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		2.04	0.973	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.14	0.941	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	4.64		1.89	0.503	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.14	0.802	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		2.07	0.995	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.14	0.941	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	7.22		2.14	0.759	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	2.54		1.96	0.727	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	13.5		2.14	0.374	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	14.3		8.56	0.353	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		2.05	0.920	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND		2.14	0.556	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	0.917	J	1.99	0.877	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	17.3		2.14	0.449	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		2.01	0.813	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	13.8		4.28	0.246	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.14	0.738	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.14	0.791	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.14	1.21	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.81	0.535	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.28	0.396	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.28	0.267	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	86.0				%	1	01/15/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	94.2				%	1	01/15/25	AM	25 - 150 %	C
% d7-N-MeFOSE	95.9				%	1	01/15/25	AM	25 - 150 %	C
% d9-N-EtFOSE	60.7				%	1	01/15/25	AM	25 - 150 %	C
% d-N-EtFOSA	25.1				%	1	01/15/25	AM	25 - 150 %	C
% d-N-MeFOSA	41.0				%	1	01/15/25	AM	25 - 150 %	C
% M2-4:2 FTS	38.7				%	1	01/15/25	AM	25 - 150 %	C
% M2-6:2 FTS	34.5				%	1	01/15/25	AM	25 - 200 %	C
% M2-8:2 FTS	42.0				%	1	01/15/25	AM	25 - 200 %	C
% M2PFTEDA	34.0				%	1	01/15/25	AM	10 - 150 %	C
% M3HFPO-DA	58.1				%	1	01/15/25	AM	25 - 150 %	C
% M3PFBS	141				%	1	01/15/25	AM	25 - 150 %	C
% M3PFHxS	127				%	1	01/15/25	AM	25 - 150 %	C
% M4PFHpA	117				%	1	01/15/25	AM	25 - 150 %	C
% M5PFHxA	121				%	1	01/15/25	AM	25 - 150 %	C
% M5PFPEA	131				%	1	01/15/25	AM	25 - 150 %	C
% M6PFDA	107				%	1	01/15/25	AM	25 - 150 %	C
% M7PFUDA	95.6				%	1	01/15/25	AM	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M8FOSA	113			%	1	01/15/25	AM	10 - 150 %	C
% M8PFOA	119			%	1	01/15/25	AM	25 - 150 %	C
% M8PFOS	114			%	1	01/15/25	AM	25 - 150 %	C
% M9PFNA	127			%	1	01/15/25	AM	25 - 150 %	C
% MPFBA	69.0			%	1	01/15/25	AM	25 - 150 %	C
% MPFDOA	68.5			%	1	01/15/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
a-chlordane	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Alachlor	ND	0.071	0.071	ug/L	1	01/09/25	AW	SW8081B	1
Aldrin	ND	0.001	0.001	ug/L	1	01/09/25	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
Chlordane	ND	0.047	0.047	ug/L	1	01/09/25	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan I	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan II	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Endrin	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Endrin Aldehyde	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Endrin ketone	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
g-chlordane	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Heptachlor	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Heptachlor epoxide	ND	0.009	0.009	ug/L	1	01/09/25	AW	SW8081B	
Methoxychlor	ND	0.094	0.094	ug/L	1	01/09/25	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	01/09/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	20			%	1	01/09/25	AW	30 - 150 %	3
%DCBP (Surrogate Rec) (Confirmation)	25			%	1	01/09/25	AW	30 - 150 %	3
%TCMX (Surrogate Rec)	34			%	1	01/09/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	45			%	1	01/09/25	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
PCB-1268	ND	0.048	0.048	ug/L	1	01/13/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	59			%	1	01/13/25	SC	30 - 150 %	
% DCBP (Confirmation)	57			%	1	01/13/25	SC	30 - 150 %	

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% TCMX	84			%	1	01/13/25	SC	30 - 150 %	
% TCMX (Confirmation)	78			%	1	01/13/25	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.2	ug/L	1	01/09/25	HM	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.75	ug/L	1	01/09/25	HM	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.0	0.60	ug/L	1	01/09/25	HM	SW8260D	
1,1,2-Trichloroethane	ND	1.0	1.0	ug/L	1	01/09/25	HM	SW8260D	
1,1-Dichloroethane	ND	5.0	0.92	ug/L	1	01/09/25	HM	SW8260D	
1,1-Dichloroethene	ND	5.0	1.1	ug/L	1	01/09/25	HM	SW8260D	
1,1-Dichloropropene	ND	5.0	0.85	ug/L	1	01/09/25	HM	SW8260D	
1,2,3-Trichlorobenzene	ND	5.0	4.9	ug/L	1	01/09/25	HM	SW8260D	
1,2,3-Trichloropropane	ND	2.0	2.0	ug/L	1	01/09/25	HM	SW8260D	
1,2,4-Trichlorobenzene	ND	5.0	2.2	ug/L	1	01/09/25	HM	SW8260D	
1,2,4-Trimethylbenzene	ND	5.0	0.69	ug/L	1	01/09/25	HM	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.7	1.7	ug/L	1	01/09/25	HM	SW8260D	
1,2-Dibromoethane	ND	1.0	1.0	ug/L	1	01/09/25	HM	SW8260D	
1,2-Dichlorobenzene	ND	4.7	0.56	ug/L	1	01/09/25	HM	SW8260D	
1,2-Dichloroethane	ND	0.60	0.49	ug/L	1	01/09/25	HM	SW8260D	
1,2-Dichloropropane	ND	1.0	0.55	ug/L	1	01/09/25	HM	SW8260D	
1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/L	1	01/09/25	HM	SW8260D	
1,3-Dichlorobenzene	ND	3.0	0.17	ug/L	1	01/09/25	HM	SW8260D	
1,3-Dichloropropane	ND	5.0	0.95	ug/L	1	01/09/25	HM	SW8260D	
1,4-Dichlorobenzene	ND	5.0	0.79	ug/L	1	01/09/25	HM	SW8260D	
2,2-Dichloropropane	ND	5.0	0.74	ug/L	1	01/09/25	HM	SW8260D	
2-Chlorotoluene	ND	5.0	0.84	ug/L	1	01/09/25	HM	SW8260D	
2-Hexanone	ND	25	2.5	ug/L	1	01/09/25	HM	SW8260D	
2-Isopropyltoluene	ND	5.0	0.48	ug/L	1	01/09/25	HM	SW8260D	1
4-Chlorotoluene	ND	5.0	2.0	ug/L	1	01/09/25	HM	SW8260D	
4-Methyl-2-pentanone	ND	25	2.0	ug/L	1	01/09/25	HM	SW8260D	
Acetone	ND	50	5.6	ug/L	1	01/09/25	HM	SW8260D	
Acrylonitrile	ND	5.0	5.0	ug/L	1	01/09/25	HM	SW8260D	
Benzene	ND	0.70	0.51	ug/L	1	01/09/25	HM	SW8260D	
Bromobenzene	ND	5.0	0.89	ug/L	1	01/09/25	HM	SW8260D	
Bromochloromethane	ND	5.0	1.3	ug/L	1	01/09/25	HM	SW8260D	
Bromodichloromethane	ND	5.0	0.49	ug/L	1	01/09/25	HM	SW8260D	
Bromoform	ND	5.0	1.1	ug/L	1	01/09/25	HM	SW8260D	
Bromomethane	ND	5.0	4.2	ug/L	1	01/09/25	HM	SW8260D	
Carbon Disulfide	ND	5.0	0.39	ug/L	1	01/09/25	HM	SW8260D	
Carbon tetrachloride	ND	5.0	1.0	ug/L	1	01/09/25	HM	SW8260D	
Chlorobenzene	ND	5.0	0.87	ug/L	1	01/09/25	HM	SW8260D	
Chloroethane	ND	5.0	1.0	ug/L	1	01/09/25	HM	SW8260D	
Chloroform	ND	5.0	1.1	ug/L	1	01/09/25	HM	SW8260D	
Chloromethane	ND	5.0	0.84	ug/L	1	01/09/25	HM	SW8260D	
cis-1,2-Dichloroethene	150	5.0	0.36	ug/L	1	01/09/25	HM	SW8260D	
cis-1,3-Dichloropropene	ND	0.4	0.4	ug/L	1	01/09/25	HM	SW8260D	
Dibromochloromethane	ND	5.0	0.69	ug/L	1	01/09/25	HM	SW8260D	
Dibromomethane	ND	5.0	0.67	ug/L	1	01/09/25	HM	SW8260D	
Dichlorodifluoromethane	ND	5.0	0.76	ug/L	1	01/09/25	HM	SW8260D	
Ethylbenzene	ND	5.0	0.95	ug/L	1	01/09/25	HM	SW8260D	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachlorobutadiene	ND		0.5	0.5	ug/L	1	01/09/25	HM	SW8260D	
Isopropylbenzene	ND		5.0	0.78	ug/L	1	01/09/25	HM	SW8260D	
m&p-Xylene	ND		5.0	2.1	ug/L	1	01/09/25	HM	SW8260D	
Methyl Ethyl Ketone	ND		30	3.9	ug/L	1	01/09/25	HM	SW8260D	
Methyl t-butyl ether (MTBE)	1.1	J	10	0.63	ug/L	1	01/09/25	HM	SW8260D	
Methylene chloride	ND		5.0	1.4	ug/L	1	01/09/25	HM	SW8260D	
Naphthalene	ND		5.0	2.2	ug/L	1	01/09/25	HM	SW8260D	
n-Butylbenzene	ND		5.0	1.4	ug/L	1	01/09/25	HM	SW8260D	
n-Propylbenzene	ND		5.0	0.82	ug/L	1	01/09/25	HM	SW8260D	
o-Xylene	ND		5.0	1.5	ug/L	1	01/09/25	HM	SW8260D	
p-Isopropyltoluene	ND		5.0	0.48	ug/L	1	01/09/25	HM	SW8260D	
sec-Butylbenzene	ND		5.0	0.54	ug/L	1	01/09/25	HM	SW8260D	
Styrene	ND		5.0	1.9	ug/L	1	01/09/25	HM	SW8260D	
tert-Butylbenzene	ND		5.0	0.48	ug/L	1	01/09/25	HM	SW8260D	
Tetrachloroethene	ND		5.0	0.76	ug/L	1	01/09/25	HM	SW8260D	
Tetrahydrofuran (THF)	ND		10	6.1	ug/L	1	01/09/25	HM	SW8260D	1
Toluene	ND		5.0	0.45	ug/L	1	01/09/25	HM	SW8260D	
Total Xylenes	ND		5.0	5.0	ug/L	1	01/09/25	HM	SW8260D	
trans-1,2-Dichloroethene	ND		5.0	0.94	ug/L	1	01/09/25	HM	SW8260D	
trans-1,3-Dichloropropene	ND		0.4	0.4	ug/L	1	01/09/25	HM	SW8260D	
trans-1,4-dichloro-2-butene	ND		5	5	ug/L	1	01/09/25	HM	SW8260D	
Trichloroethene	ND		5.0	0.88	ug/L	1	01/09/25	HM	SW8260D	
Trichlorofluoromethane	ND		5.0	0.59	ug/L	1	01/09/25	HM	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.8	ug/L	1	01/09/25	HM	SW8260D	
Vinyl chloride	160		5.0	0.84	ug/L	1	01/09/25	HM	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	97				%	1	01/09/25	HM	70 - 130 %	
% Bromofluorobenzene	96				%	1	01/09/25	HM	70 - 130 %	
% Dibromofluoromethane	99				%	1	01/09/25	HM	70 - 130 %	
% Toluene-d8	101				%	1	01/09/25	HM	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.50	0.50	ug/l	1	01/13/25	AW	SW8270ESIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	85				%	1	01/13/25	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.3	3.3	ug/L	1	01/10/25	MR	SW8270E	
1,2,4-Trichlorobenzene	ND		4.7	1.4	ug/L	1	01/10/25	MR	SW8270E	
1,2-Dichlorobenzene	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
1,2-Diphenylhydrazine	ND		4.7	1.5	ug/L	1	01/10/25	MR	SW8270E	
1,3-Dichlorobenzene	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
1,4-Dichlorobenzene	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND		4.7	1.3	ug/L	1	01/10/25	MR	SW8270E	1
2,4,5-Trichlorophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dichlorophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dimethylphenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrotoluene	ND		4.7	1.9	ug/L	1	01/10/25	MR	SW8270E	

Project ID: 60 GERRY ST.
Client ID: 23MW-4S

Phoenix I.D.: CS40379

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
2-Chlorophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
2-Nitroaniline	ND	4.7	1.9	ug/L	1	01/10/25	MR	SW8270E
2-Nitrophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	01/10/25	MR	SW8270E
3-Nitroaniline	ND	4.7	1.9	ug/L	1	01/10/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
4-Chloroaniline	ND	3.3	2.2	ug/L	1	01/10/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitroaniline	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitrophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Acenaphthene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
Acetophenone	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Aniline	ND	3.3	3.3	ug/L	1	01/10/25	MR	SW8270E
Anthracene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Benzidine	ND	4.2	2.8	ug/L	1	01/10/25	MR	SW8270E
Benzoic acid	ND	24	9.4	ug/L	1	01/10/25	MR	SW8270E
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Carbazole	ND	4.7	3.6	ug/L	1	01/10/25	MR	SW8270E
Dibenzofuran	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
Diethyl phthalate	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Dimethylphthalate	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	01/10/25	MR	SW8270E
Fluoranthene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Fluorene	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
Hexachloroethane	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Isophorone	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Naphthalene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	01/10/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	01/10/25	MR	SW8270E
Phenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Pyrene	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
Pyridine	ND	9.4	1.2	ug/L	1	01/10/25	MR	SW8270E
QA/QC Surrogates								
% 2,4,6-Tribromophenol	82			%	1	01/10/25	MR	15 - 110 %
% 2-Fluorobiphenyl	56			%	1	01/10/25	MR	30 - 130 %
% 2-Fluorophenol	59			%	1	01/10/25	MR	15 - 110 %
% Nitrobenzene-d5	70			%	1	01/10/25	MR	30 - 130 %

Project ID: 60 GERRY ST.
Client ID: 23MW-4S

Phoenix I.D.: CS40379

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Phenol-d5	65			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	<10			%	1	01/10/25	MR	30 - 130 %	3
Semivolatiles									
Acenaphthylene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benz(a)anthracene	0.03	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(a)pyrene	0.03	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(b)fluoranthene	0.03	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(k)fluoranthene	0.02	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Chrysene	0.03	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	01/10/25	MR	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Pentachlorophenol	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Phenanthrene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	83			%	1	01/10/25	MR	15 - 110 %	
% 2-Fluorobiphenyl	54			%	1	01/10/25	MR	30 - 130 %	
% 2-Fluorophenol	61			%	1	01/10/25	MR	15 - 110 %	
% Nitrobenzene-d5	75			%	1	01/10/25	MR	30 - 130 %	
% Phenol-d5	76			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	<10			%	1	01/10/25	MR	30 - 130 %	3
Extraction for 1,4-Dioxane	Completed					01/10/25	G/G	SW8270ESIM	1

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

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

*See attached

The regulatory hold time for Dissolved Oxygen is immediately. This DO was performed in the laboratory and may be considered outside of hold-time.

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

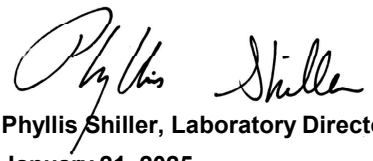
Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
January 21, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 21, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/07/25	14:45
Location Code:	TOUCHSTONE	Received by:	SR1	01/08/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS40379
Phoenix ID: CS40380

Project ID: 60 GERRY ST.
Client ID: 23MW-4D

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.010	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum	359	2.0	1.0	mg/L	100	01/10/25	CPP	SW6010D
Arsenic	0.146	0.004	0.004	mg/L	1	01/10/25	TH	SW6010D
Barium	3.52	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Beryllium	0.018	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Calcium	660	0.10	0.10	mg/L	10	01/10/25	CPP	SW6010D
Cadmium	0.014	0.001	0.0005	mg/L	1	01/10/25	TH	SW6010D
Cobalt	0.305	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Chromium	0.901	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Copper	0.882	0.005	0.001	mg/L	1	01/10/25	TH	SW6010D
Silver (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum (Dissolved)	0.021	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Arsenic (Dissolved)	ND	0.004	0.004	mg/L	1	01/10/25	CPP	SW6010D
Barium (Dissolved)	0.038	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Calcium (Dissolved)	323	0.11	0.11	mg/L	10	01/14/25	TH	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	01/10/25	CPP	SW6010D
Cobalt (Dissolved)	0.001	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Copper (Dissolved)	0.002 J	0.005	0.001	mg/L	1	01/10/25	CPP	SW6010D
Iron (Dissolved)	0.082	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	01/15/25	JM	SW7470A
Potassium (Dissolved)	18.6	1.1	0.11	mg/L	10	01/14/25	TH	SW6010D
Magnesium (Dissolved)	110	0.11	0.11	mg/L	10	01/14/25	TH	SW6010D
Manganese (Dissolved)	1.33	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Sodium (Dissolved)	664	11	1.1	mg/L	100	01/14/25	TH	SW6010D
Nickel (Dissolved)	0.046	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Lead (Dissolved)	0.003	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D

Ver 1

Project ID: 60 GERRY ST.
Client ID: 23MW-4D

Phoenix I.D.: CS40380

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	01/10/25	CPP	SW6010D	
Selenium (Dissolved)	ND	0.010	0.010	mg/L	1	01/10/25	CPP	SW6010D	
Thallium (Dissolved)	ND	0.0005	0.0005	mg/L	1	01/14/25	ZT	SW7010	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	01/10/25	MGH	SW6020B	
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D	
Zinc (Dissolved)	0.007	0.002	0.0012	mg/L	1	01/10/25	CPP	SW6010D	
Iron	1010	0.10	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Mercury	0.0112	0.0002	0.00015	mg/L	1	01/14/25	ZT	SW7470A	
Potassium	117	10	1.0	mg/L	100	01/10/25	CPP	SW6010D	
Magnesium	344	0.10	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Manganese	15.8	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Sodium	835	10	1.0	mg/L	100	01/10/25	CPP	SW6010D	
Nickel	0.776	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Lead	1.41	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Antimony	0.021	0.003	0.003	mg/L	1	01/10/25	CPP	SW6010D	
Selenium	ND	0.010	0.01	mg/L	1	01/10/25	CPP	SW6010D	
Thallium	0.0041	0.0005	0.0005	mg/L	5	01/10/25	MGH	SW6020B	
Vanadium	1.08	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D	
Zinc	3.18	0.004	0.0011	mg/L	1	01/10/25	TH	SW6010D	
Alkalinity-CaCO3	608	100		mg/L	5	01/09/25	MW	SM2320B-11	
Chloride	78.2	5.0	3	mg/L	1	01/08/25	DD/GD	E300.0	
Nitrate as Nitrogen	ND	0.05	0.01	mg/L	1	01/08/25 17:52	DD/GD	E300.0	
pH	7.68	1.00	1.00	pH Units	1	01/09/25 00:16	MW	SM4500-H B-11	1
Redox Potential	189			mV	1	01/09/25	MW	SM2580B-09	1
Sulfate	1250	125	62.5	mg/L	25	01/09/25	DD/GD	E300.0	
Lab Filtration	Completed					01/09/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					01/14/25	AK/AK/GW	SW7470A	
Mercury Digestion	Completed					01/12/25	AK/AK	SW7470A	
PCB Extraction (LDL)	Completed					01/10/25	A/A	SW3510C	
Extraction for Pest (LDL)	Completed					01/10/25	A	SW3510C	
Semi-Volatile Extraction	Completed					01/08/25	Z/MQ	SW3520C	
Total Metals Digestion (GFAA)	Completed					01/09/25	AG	SM3113B-10	
Dissolved Metals Preparation	Completed					01/09/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					01/09/25	AG	SW3005A	
Total Metals Digestion	Completed					01/09/25	AG	SW3010A	
Total Metals Digestion MS	Completed					01/09/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed					01/13/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	7.86	1.43	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	7.98	2.13	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	7.79	1.86	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	12.6	7.90	7.79	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	5.20	2.11	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	26.0	7.62	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	26.0	9.84	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	7.77	0.727	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
ADONA	ND	7.86	0.551	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND	8.31	3.36	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C

Ver 1

Project ID: 60 GERRY ST.
Client ID: 23MW-4D

Phoenix I.D.: CS40380

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
NEtFOSA	ND		2.08	1.87	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.08	1.07	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		20.8	4.15	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.16	2.22	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.08	1.64	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.08	0.821	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		20.8	4.15	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		2.01	1.37	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		1.99	0.946	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.08	0.915	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	1.24	J	1.84	0.488	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.08	0.779	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		2.02	0.967	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.08	0.915	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	4.71		2.08	0.738	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	1.84	J	1.90	0.707	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	8.46		2.08	0.364	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND		8.31	0.343	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		2.00	0.894	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND		2.08	0.540	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	ND		1.93	0.852	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	8.79		2.08	0.436	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		1.95	0.790	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	7.60		4.16	0.239	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.08	0.717	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.08	0.769	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.08	1.17	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.70	0.520	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.16	0.385	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.16	0.260	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	56.2				%	1	01/15/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	52.3				%	1	01/15/25	AM	25 - 150 %	C
% d7-N-MeFOSE	45.5				%	1	01/15/25	AM	25 - 150 %	C
% d9-N-EtFOSE	30.9				%	1	01/15/25	AM	25 - 150 %	C
% d-N-EtFOSA	14.5				%	1	01/15/25	AM	25 - 150 %	C,3
% d-N-MeFOSA	15.6				%	1	01/15/25	AM	25 - 150 %	C,3
% M2-4:2 FTS	35.6				%	1	01/15/25	AM	25 - 150 %	C
% M2-6:2 FTS	34.7				%	1	01/15/25	AM	25 - 200 %	C
% M2-8:2 FTS	32.2				%	1	01/15/25	AM	25 - 200 %	C
% M2PFTEDA	16.6				%	1	01/15/25	AM	10 - 150 %	C
% M3HFPO-DA	56.2				%	1	01/15/25	AM	25 - 150 %	C
% M3PFBS	145				%	1	01/15/25	AM	25 - 150 %	C
% M3PFHxS	116				%	1	01/15/25	AM	25 - 150 %	C
% M4PFHpA	102				%	1	01/15/25	AM	25 - 150 %	C
% M5PFHxA	103				%	1	01/15/25	AM	25 - 150 %	C
% M5PFPEA	108				%	1	01/15/25	AM	25 - 150 %	C
% M6PFDA	78.3				%	1	01/15/25	AM	25 - 150 %	C
% M7PFUDA	65.3				%	1	01/15/25	AM	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M8FOSA	73.0			%	1	01/15/25	AM	10 - 150 %	C
% M8PFOA	120			%	1	01/15/25	AM	25 - 150 %	C
% M8PFOS	86.4			%	1	01/15/25	AM	25 - 150 %	C
% M9PFNA	94.8			%	1	01/15/25	AM	25 - 150 %	C
% MPFBA	32.3			%	1	01/15/25	AM	25 - 150 %	C
% MPFDOA	37.5			%	1	01/15/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	01/10/25	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	01/10/25	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	01/10/25	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	01/10/25	AW	SW8081B	
a-chlordane	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Alachlor	ND	0.071	0.071	ug/L	1	01/10/25	AW	SW8081B	1
Aldrin	ND	0.001	0.001	ug/L	1	01/10/25	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	01/10/25	AW	SW8081B	
Chlordane	ND	0.047	0.047	ug/L	1	01/10/25	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	01/10/25	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	01/10/25	AW	SW8081B	
Endosulfan I	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Endosulfan II	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Endrin	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Endrin Aldehyde	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Endrin ketone	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	01/10/25	AW	SW8081B	
g-chlordane	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Heptachlor	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Heptachlor epoxide	ND	0.009	0.009	ug/L	1	01/10/25	AW	SW8081B	
Methoxychlor	ND	0.094	0.094	ug/L	1	01/10/25	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	01/10/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	22			%	1	01/10/25	AW	30 - 150 %	3
%DCBP (Surrogate Rec) (Confirmation)	28			%	1	01/10/25	AW	30 - 150 %	3
%TCMX (Surrogate Rec)	48			%	1	01/10/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	51			%	1	01/10/25	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1221	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1232	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1242	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1248	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1254	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1260	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1262	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
PCB-1268	ND	0.049	0.049	ug/L	1	01/13/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	61			%	1	01/13/25	SC	30 - 150 %	
% DCBP (Confirmation)	56			%	1	01/13/25	SC	30 - 150 %	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% TCMX	86				%	1	01/13/25	SC	30 - 150 %	
% TCMX (Confirmation)	77				%	1	01/13/25	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		5.0	1.2	ug/L	2	01/09/25	HM	SW8260D	
1,1,1-Trichloroethane	ND		5.0	0.75	ug/L	2	01/09/25	HM	SW8260D	
1,1,2,2-Tetrachloroethane	ND		5.0	0.60	ug/L	2	01/09/25	HM	SW8260D	
1,1,2-Trichloroethane	ND		1.0	1.0	ug/L	2	01/09/25	HM	SW8260D	
1,1-Dichloroethane	ND		5.0	0.92	ug/L	2	01/09/25	HM	SW8260D	
1,1-Dichloroethene	ND		5.0	1.1	ug/L	2	01/09/25	HM	SW8260D	
1,1-Dichloropropene	ND		5.0	0.85	ug/L	2	01/09/25	HM	SW8260D	
1,2,3-Trichlorobenzene	ND		5.0	4.9	ug/L	2	01/09/25	HM	SW8260D	
1,2,3-Trichloropropane	ND		2.0	2.0	ug/L	2	01/09/25	HM	SW8260D	
1,2,4-Trichlorobenzene	ND		5.0	2.2	ug/L	2	01/09/25	HM	SW8260D	
1,2,4-Trimethylbenzene	ND		5.0	0.69	ug/L	2	01/09/25	HM	SW8260D	
1,2-Dibromo-3-chloropropane	ND		1.7	1.7	ug/L	2	01/09/25	HM	SW8260D	
1,2-Dibromoethane	ND		1.0	1.0	ug/L	2	01/09/25	HM	SW8260D	
1,2-Dichlorobenzene	ND		4.7	0.56	ug/L	2	01/09/25	HM	SW8260D	
1,2-Dichloroethane	ND		0.60	0.49	ug/L	2	01/09/25	HM	SW8260D	
1,2-Dichloropropane	ND		1.0	0.55	ug/L	2	01/09/25	HM	SW8260D	
1,3,5-Trimethylbenzene	ND		5.0	0.58	ug/L	2	01/09/25	HM	SW8260D	
1,3-Dichlorobenzene	ND		3.0	0.17	ug/L	2	01/09/25	HM	SW8260D	
1,3-Dichloropropane	ND		5.0	0.95	ug/L	2	01/09/25	HM	SW8260D	
1,4-Dichlorobenzene	ND		5.0	0.79	ug/L	2	01/09/25	HM	SW8260D	
2,2-Dichloropropane	ND		5.0	0.74	ug/L	2	01/09/25	HM	SW8260D	
2-Chlorotoluene	ND		5.0	0.84	ug/L	2	01/09/25	HM	SW8260D	
2-Hexanone	ND		25	2.5	ug/L	2	01/09/25	HM	SW8260D	
2-Isopropyltoluene	ND		5.0	0.48	ug/L	2	01/09/25	HM	SW8260D	1
4-Chlorotoluene	ND		5.0	2.0	ug/L	2	01/09/25	HM	SW8260D	
4-Methyl-2-pentanone	ND		25	2.0	ug/L	2	01/09/25	HM	SW8260D	
Acetone	ND		50	5.6	ug/L	2	01/09/25	HM	SW8260D	
Acrylonitrile	ND		5.0	5.0	ug/L	2	01/09/25	HM	SW8260D	
Benzene	ND		0.70	0.51	ug/L	2	01/09/25	HM	SW8260D	
Bromobenzene	ND		5.0	0.89	ug/L	2	01/09/25	HM	SW8260D	
Bromochloromethane	ND		5.0	1.3	ug/L	2	01/09/25	HM	SW8260D	
Bromodichloromethane	ND		5.0	0.49	ug/L	2	01/09/25	HM	SW8260D	
Bromoform	ND		5.0	1.1	ug/L	2	01/09/25	HM	SW8260D	
Bromomethane	ND		5.0	4.2	ug/L	2	01/09/25	HM	SW8260D	
Carbon Disulfide	ND		5.0	0.39	ug/L	2	01/09/25	HM	SW8260D	
Carbon tetrachloride	ND		5.0	1.0	ug/L	2	01/09/25	HM	SW8260D	
Chlorobenzene	ND		5.0	0.87	ug/L	2	01/09/25	HM	SW8260D	
Chloroethane	ND		5.0	1.0	ug/L	2	01/09/25	HM	SW8260D	
Chloroform	ND		5.0	1.1	ug/L	2	01/09/25	HM	SW8260D	
Chloromethane	ND		5.0	0.84	ug/L	2	01/09/25	HM	SW8260D	
cis-1,2-Dichloroethene	2.8	J	5.0	0.36	ug/L	2	01/09/25	HM	SW8260D	
cis-1,3-Dichloropropene	ND		0.4	0.4	ug/L	2	01/09/25	HM	SW8260D	
Dibromochloromethane	ND		5.0	0.69	ug/L	2	01/09/25	HM	SW8260D	
Dibromomethane	ND		5.0	0.67	ug/L	2	01/09/25	HM	SW8260D	
Dichlorodifluoromethane	ND		5.0	0.76	ug/L	2	01/09/25	HM	SW8260D	
Ethylbenzene	ND		5.0	0.95	ug/L	2	01/09/25	HM	SW8260D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachlorobutadiene	ND	0.5	0.5	ug/L	2	01/09/25	HM	SW8260D	
Isopropylbenzene	ND	5.0	0.78	ug/L	2	01/09/25	HM	SW8260D	
m&p-Xylene	ND	5.0	2.1	ug/L	2	01/09/25	HM	SW8260D	
Methyl Ethyl Ketone	ND	30	3.9	ug/L	2	01/09/25	HM	SW8260D	
Methyl t-butyl ether (MTBE)	ND	10	0.63	ug/L	2	01/09/25	HM	SW8260D	
Methylene chloride	ND	5.0	1.4	ug/L	2	01/09/25	HM	SW8260D	
Naphthalene	ND	5.0	2.2	ug/L	2	01/09/25	HM	SW8260D	
n-Butylbenzene	ND	5.0	1.4	ug/L	2	01/09/25	HM	SW8260D	
n-Propylbenzene	ND	5.0	0.82	ug/L	2	01/09/25	HM	SW8260D	
o-Xylene	ND	5.0	1.5	ug/L	2	01/09/25	HM	SW8260D	
p-Isopropyltoluene	ND	5.0	0.48	ug/L	2	01/09/25	HM	SW8260D	
sec-Butylbenzene	ND	5.0	0.54	ug/L	2	01/09/25	HM	SW8260D	
Styrene	ND	5.0	1.9	ug/L	2	01/09/25	HM	SW8260D	
tert-Butylbenzene	ND	5.0	0.48	ug/L	2	01/09/25	HM	SW8260D	
Tetrachloroethene	ND	5.0	0.76	ug/L	2	01/09/25	HM	SW8260D	
Tetrahydrofuran (THF)	ND	10	6.1	ug/L	2	01/09/25	HM	SW8260D	1
Toluene	ND	5.0	0.45	ug/L	2	01/09/25	HM	SW8260D	
Total Xylenes	ND	5.0	5.0	ug/L	2	01/09/25	HM	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.94	ug/L	2	01/09/25	HM	SW8260D	
trans-1,3-Dichloropropene	ND	0.4	0.4	ug/L	2	01/09/25	HM	SW8260D	
trans-1,4-dichloro-2-butene	ND	5	5	ug/L	2	01/09/25	HM	SW8260D	
Trichloroethene	ND	5.0	0.88	ug/L	2	01/09/25	HM	SW8260D	
Trichlorofluoromethane	ND	5.0	0.59	ug/L	2	01/09/25	HM	SW8260D	
Trichlorotrifluoroethane	ND	5.0	1.8	ug/L	2	01/09/25	HM	SW8260D	
Vinyl chloride	2.1	2.0	0.84	ug/L	2	01/09/25	HM	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4 (2x)	97			%	2	01/09/25	HM	70 - 130 %	
% Bromofluorobenzene (2x)	96			%	2	01/09/25	HM	70 - 130 %	
% Dibromofluoromethane (2x)	99			%	2	01/09/25	HM	70 - 130 %	
% Toluene-d8 (2x)	100			%	2	01/09/25	HM	70 - 130 %	
1,4-dioxane									
1,4-dioxane	ND	1.0	1.0	ug/l	1	01/13/25	AW	SW8270ESIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	79			%	1	01/13/25	AW	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	01/10/25	MR	SW8270E	
1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E	
1,2-Dichlorobenzene	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
1,2-Diphenylhydrazine	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E	
1,3-Dichlorobenzene	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
1,4-Dichlorobenzene	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dichlorophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dimethylphenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	01/10/25	MR	SW8270E	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
2-Chlorophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
2-Nitroaniline	ND	4.7	1.9	ug/L	1	01/10/25	MR	SW8270E
2-Nitrophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	01/10/25	MR	SW8270E
3-Nitroaniline	ND	4.7	1.9	ug/L	1	01/10/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
4-Chloroaniline	ND	3.3	2.2	ug/L	1	01/10/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitroaniline	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitrophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Acenaphthene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
Acetophenone	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Aniline	ND	3.3	3.3	ug/L	1	01/10/25	MR	SW8270E
Anthracene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Benzidine	ND	4.2	2.8	ug/L	1	01/10/25	MR	SW8270E
Benzoic acid	ND	24	9.4	ug/L	1	01/10/25	MR	SW8270E
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Carbazole	ND	4.7	3.6	ug/L	1	01/10/25	MR	SW8270E
Dibenzofuran	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
Diethyl phthalate	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Dimethylphthalate	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	01/10/25	MR	SW8270E
Fluoranthene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Fluorene	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
Hexachloroethane	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Isophorone	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Naphthalene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	01/10/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	01/10/25	MR	SW8270E
Phenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Pyrene	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
Pyridine	ND	9.4	1.2	ug/L	1	01/10/25	MR	SW8270E
QA/QC Surrogates								
% 2,4,6-Tribromophenol	88			%	1	01/10/25	MR	15 - 110 %
% 2-Fluorobiphenyl	74			%	1	01/10/25	MR	30 - 130 %
% 2-Fluorophenol	53			%	1	01/10/25	MR	15 - 110 %
% Nitrobenzene-d5	63			%	1	01/10/25	MR	30 - 130 %

Project ID: 60 GERRY ST.
Client ID: 23MW-4D

Phoenix I.D.: CS40380

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Phenol-d5	58			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	50			%	1	01/10/25	MR	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benz(a)anthracene	0.02	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	01/10/25	MR	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Pentachlorophenol	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Phenanthrene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	87			%	1	01/10/25	MR	15 - 110 %	
% 2-Fluorobiphenyl	71			%	1	01/10/25	MR	30 - 130 %	
% 2-Fluorophenol	55			%	1	01/10/25	MR	15 - 110 %	
% Nitrobenzene-d5	68			%	1	01/10/25	MR	30 - 130 %	
% Phenol-d5	69			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	47			%	1	01/10/25	MR	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					01/10/25	G/G	SW8270ESIM	1

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

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

*See attached

The regulatory hold time for Dissolved Oxygen is immediately. This DO was performed in the laboratory and may be considered outside of hold-time.

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Volatile Comment:
Elevated reporting limits for volatiles due to sediment in the vial.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Pesticide Comment:
Poor surrogate recovery was observed. Insufficient sample for re-extraction.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 21, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 21, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/07/25	16:00
Location Code:	TOUCHSTONE	Received by:	SR1	01/08/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS40379
Phoenix ID: CS40381

Project ID: 60 GERRY ST.
Client ID: 23MW-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum	0.279	0.020	0.01	mg/L	1	01/10/25	TH	SW6010D
Arsenic	ND	0.004	0.004	mg/L	1	01/10/25	TH	SW6010D
Barium	0.121	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Calcium	174	0.10	0.10	mg/L	10	01/10/25	CPP	SW6010D
Cadmium	ND	0.001	0.0005	mg/L	1	01/10/25	TH	SW6010D
Cobalt	0.003	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Chromium	ND	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Copper	0.001 J	0.005	0.001	mg/L	1	01/10/25	TH	SW6010D
Silver (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum (Dissolved)	0.028	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Arsenic (Dissolved)	ND	0.004	0.004	mg/L	1	01/10/25	CPP	SW6010D
Barium (Dissolved)	0.110	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Calcium (Dissolved)	171	0.11	0.11	mg/L	10	01/14/25	TH	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	01/10/25	CPP	SW6010D
Cobalt (Dissolved)	0.002	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Copper (Dissolved)	0.001 J	0.005	0.001	mg/L	1	01/10/25	CPP	SW6010D
Iron (Dissolved)	0.013	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	01/15/25	JM	SW7470A
Potassium (Dissolved)	21.8	1.1	0.11	mg/L	10	01/14/25	TH	SW6010D
Magnesium (Dissolved)	17.4	0.01	0.01	mg/L	1	01/10/25	CPP	SW6010D
Manganese (Dissolved)	1.47	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Sodium (Dissolved)	86.7	1.1	0.11	mg/L	10	01/14/25	TH	SW6010D
Nickel (Dissolved)	0.003	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Lead (Dissolved)	0.001 J	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D

Project ID: 60 GERRY ST.
Client ID: 23MW-1

Phoenix I.D.: CS40381

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	01/10/25	CPP	SW6010D	
Selenium (Dissolved)	ND	0.010	0.010	mg/L	1	01/10/25	CPP	SW6010D	
Thallium (Dissolved)	ND	0.0005	0.0005	mg/L	1	01/14/25	ZT	SW7010	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	01/10/25	MGH	SW6020B	
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D	
Zinc (Dissolved)	0.028	0.002	0.0012	mg/L	1	01/10/25	CPP	SW6010D	
Iron	3.70	0.010	0.01	mg/L	1	01/10/25	TH	SW6010D	
Mercury	ND	0.0002	0.00015	mg/L	1	01/09/25	ZT	SW7470A	
Potassium	23.7	1.0	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Magnesium	17.0	0.010	0.01	mg/L	1	01/10/25	CPP	SW6010D	
Manganese	1.50	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Sodium	93.4	1.0	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Nickel	0.004	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Lead	0.001	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Antimony	ND	0.003	0.003	mg/L	1	01/10/25	TH	SW6010D	
Selenium	ND	0.010	0.01	mg/L	1	01/10/25	TH	SW6010D	
Thallium	ND	0.0005	0.0005	mg/L	5	01/10/25	MGH	SW6020B	
Vanadium	0.001	J 0.002	0.001	mg/L	1	01/10/25	TH	SW6010D	
Zinc	0.040	0.004	0.0011	mg/L	1	01/10/25	TH	SW6010D	
Alkalinity-CaCO3	587	100		mg/L	5	01/09/25	MW	SM2320B-11	
Chloride	157	25.0	15	mg/L	5	01/09/25	DD/GD	E300.0	
Nitrate as Nitrogen	ND	0.05	0.01	mg/L	1	01/08/25 18:01	DD/GD	E300.0	
pH	7.40	1.00	1.00	pH Units	1	01/09/25 00:16	MW	SM4500-H B-11	1
Redox Potential	201			mV	1	01/09/25	MW	SM2580B-09	1
Sulfate	189	25.0	12.5	mg/L	5	01/09/25	DD/GD	E300.0	
Lab Filtration	Completed					01/09/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					01/14/25	AK/AK/GW	SW7470A	
Mercury Digestion	Completed					01/09/25	AK/AK	SW7470A	
PCB Extraction (LDL)	Completed					01/08/25	M/M	SW3510C	
Extraction for Pest (LDL)	Completed					01/08/25	M/M	SW3510C	
Semi-Volatile Extraction	Completed					01/08/25	Z/MQ	SW3520C	
Total Metals Digestion (GFAA)	Completed					01/09/25	AG	SM3113B-10	
Dissolved Metals Preparation	Completed					01/09/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					01/09/25	AG	SW3005A	
Total Metals Digestion	Completed					01/09/25	AG	SW3010A	
Total Metals Digestion MS	Completed					01/09/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed					01/13/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	7.65	1.40	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	7.77	2.07	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	7.59	1.81	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	7.69	7.59	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	5.06	2.05	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	25.3	7.42	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	25.3	9.59	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	7.57	0.709	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
ADONA	ND	7.65	0.536	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND	8.10	3.27	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C

Project ID: 60 GERRY ST.
Client ID: 23MW-1

Phoenix I.D.: CS40381

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
NEtFOSA	ND		2.02	1.82	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.02	1.04	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		20.2	4.04	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.05	2.17	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.02	1.60	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.02	0.800	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		20.2	4.04	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		1.95	1.34	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		1.93	0.921	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.02	0.891	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	3.61		1.79	0.476	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.02	0.759	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		1.96	0.941	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.02	0.891	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	8.30		2.02	0.719	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	2.27		1.85	0.688	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	12.0		2.02	0.354	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	14.5		8.10	0.334	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		1.94	0.870	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	0.723	J	2.02	0.526	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	2.29		1.88	0.830	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	27.1		2.02	0.425	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		1.90	0.769	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	12.0		4.05	0.233	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.02	0.698	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.02	0.749	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.02	1.14	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.60	0.506	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.05	0.374	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.05	0.253	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	82.3				%	1	01/15/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	92.9				%	1	01/15/25	AM	25 - 150 %	C
% d7-N-MeFOSE	122				%	1	01/15/25	AM	25 - 150 %	C
% d9-N-EtFOSE	98.7				%	1	01/15/25	AM	25 - 150 %	C
% d-N-EtFOSA	41.7				%	1	01/15/25	AM	25 - 150 %	C
% d-N-MeFOSA	48.1				%	1	01/15/25	AM	25 - 150 %	C
% M2-4:2 FTS	101				%	1	01/15/25	AM	25 - 150 %	C
% M2-6:2 FTS	52.9				%	1	01/15/25	AM	25 - 200 %	C
% M2-8:2 FTS	44.5				%	1	01/15/25	AM	25 - 200 %	C
% M2PFTEDA	66.8				%	1	01/15/25	AM	10 - 150 %	C
% M3HFPO-DA	57.5				%	1	01/15/25	AM	25 - 150 %	C
% M3PFBS	135				%	1	01/15/25	AM	25 - 150 %	C
% M3PFHxS	129				%	1	01/15/25	AM	25 - 150 %	C
% M4PFHpA	117				%	1	01/15/25	AM	25 - 150 %	C
% M5PFHxA	111				%	1	01/15/25	AM	25 - 150 %	C
% M5PFPEA	116				%	1	01/15/25	AM	25 - 150 %	C
% M6PFDA	121				%	1	01/15/25	AM	25 - 150 %	C
% M7PFUDA	112				%	1	01/15/25	AM	25 - 150 %	C

Project ID: 60 GERRY ST.
Client ID: 23MW-1

Phoenix I.D.: CS40381

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M8FOSA	88.1			%	1	01/15/25	AM	10 - 150 %	C
% M8PFOA	119			%	1	01/15/25	AM	25 - 150 %	C
% M8PFOS	116			%	1	01/15/25	AM	25 - 150 %	C
% M9PFNA	122			%	1	01/15/25	AM	25 - 150 %	C
% MPFBA	38.9			%	1	01/15/25	AM	25 - 150 %	C
% MPFDOA	86.3			%	1	01/15/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Alachlor	ND	0.073	0.073	ug/L	1	01/09/25	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	01/09/25	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
Chlordane	ND	0.049	0.049	ug/L	1	01/09/25	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
Dieldrin	ND	0.004	0.004	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Methoxychlor	ND	0.097	0.097	ug/L	1	01/09/25	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	01/09/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	43			%	1	01/09/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	47			%	1	01/09/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	58			%	1	01/09/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	68			%	1	01/09/25	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1221	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1232	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1242	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1248	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1254	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1260	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1262	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1268	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	62			%	1	01/09/25	SC	30 - 150 %	
% DCBP (Confirmation)	45			%	1	01/09/25	SC	30 - 150 %	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% TCMX	65				%	1	01/09/25	SC	30 - 150 %	
% TCMX (Confirmation)	67				%	1	01/09/25	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		5.0	1.2	ug/L	1	01/08/25	HM	SW8260D	
1,1,1-Trichloroethane	ND		5.0	0.75	ug/L	1	01/08/25	HM	SW8260D	
1,1,2,2-Tetrachloroethane	ND		5.0	0.60	ug/L	1	01/08/25	HM	SW8260D	
1,1,2-Trichloroethane	ND		1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethane	4.6	J	5.0	0.92	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethene	ND		5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloropropene	ND		5.0	0.85	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichlorobenzene	ND		5.0	4.9	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichloropropane	ND		2.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trichlorobenzene	ND		5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trimethylbenzene	ND		5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromo-3-chloropropane	ND		1.7	1.7	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromoethane	ND		1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichlorobenzene	ND		4.7	0.56	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloroethane	ND		0.60	0.49	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloropropane	ND		1.0	0.55	ug/L	1	01/08/25	HM	SW8260D	
1,3,5-Trimethylbenzene	ND		5.0	0.58	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichlorobenzene	ND		3.0	0.17	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichloropropane	ND		5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	
1,4-Dichlorobenzene	ND		5.0	0.79	ug/L	1	01/08/25	HM	SW8260D	
2,2-Dichloropropane	ND		5.0	0.74	ug/L	1	01/08/25	HM	SW8260D	
2-Chlorotoluene	ND		5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
2-Hexanone	ND		25	2.5	ug/L	1	01/08/25	HM	SW8260D	
2-Isopropyltoluene	ND		5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	1
4-Chlorotoluene	ND		5.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
4-Methyl-2-pentanone	ND		25	2.0	ug/L	1	01/08/25	HM	SW8260D	
Acetone	ND		50	5.6	ug/L	1	01/08/25	HM	SW8260D	
Acrylonitrile	ND		5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
Benzene	0.54	J	0.70	0.51	ug/L	1	01/08/25	HM	SW8260D	
Bromobenzene	ND		5.0	0.89	ug/L	1	01/08/25	HM	SW8260D	
Bromochloromethane	ND		5.0	1.3	ug/L	1	01/08/25	HM	SW8260D	
Bromodichloromethane	ND		5.0	0.49	ug/L	1	01/08/25	HM	SW8260D	
Bromoform	ND		5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Bromomethane	ND		5.0	4.2	ug/L	1	01/08/25	HM	SW8260D	
Carbon Disulfide	ND		5.0	0.39	ug/L	1	01/08/25	HM	SW8260D	
Carbon tetrachloride	ND		5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chlorobenzene	ND		5.0	0.87	ug/L	1	01/08/25	HM	SW8260D	
Chloroethane	ND		5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chloroform	ND		5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Chloromethane	ND		5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
cis-1,2-Dichloroethene	17		5.0	0.36	ug/L	1	01/08/25	HM	SW8260D	
cis-1,3-Dichloropropene	ND		0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
Dibromochloromethane	ND		5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
Dibromomethane	ND		5.0	0.67	ug/L	1	01/08/25	HM	SW8260D	
Dichlorodifluoromethane	ND		5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Ethylbenzene	ND		5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	

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Hexachlorobutadiene	ND		0.5	0.5	ug/L	1	01/08/25	HM	SW8260D	
Isopropylbenzene	ND		5.0	0.78	ug/L	1	01/08/25	HM	SW8260D	
m&p-Xylene	ND		5.0	2.1	ug/L	1	01/08/25	HM	SW8260D	
Methyl Ethyl Ketone	ND		30	3.9	ug/L	1	01/08/25	HM	SW8260D	
Methyl t-butyl ether (MTBE)	0.86	J	10	0.63	ug/L	1	01/08/25	HM	SW8260D	
Methylene chloride	ND		5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
Naphthalene	ND		5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
n-Butylbenzene	ND		5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
n-Propylbenzene	ND		5.0	0.82	ug/L	1	01/08/25	HM	SW8260D	
o-Xylene	ND		5.0	1.5	ug/L	1	01/08/25	HM	SW8260D	
p-Isopropyltoluene	ND		5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
sec-Butylbenzene	ND		5.0	0.54	ug/L	1	01/08/25	HM	SW8260D	
Styrene	ND		5.0	1.9	ug/L	1	01/08/25	HM	SW8260D	
tert-Butylbenzene	ND		5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
Tetrachloroethene	0.94	J	5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Tetrahydrofuran (THF)	ND		10	6.1	ug/L	1	01/08/25	HM	SW8260D	1
Toluene	ND		5.0	0.45	ug/L	1	01/08/25	HM	SW8260D	
Total Xylenes	ND		5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
trans-1,2-Dichloroethene	ND		5.0	0.94	ug/L	1	01/08/25	HM	SW8260D	
trans-1,3-Dichloropropene	ND		0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
trans-1,4-dichloro-2-butene	ND		5	5	ug/L	1	01/08/25	HM	SW8260D	
Trichloroethene	3.2	J	5.0	0.88	ug/L	1	01/08/25	HM	SW8260D	
Trichlorofluoromethane	ND		5.0	0.59	ug/L	1	01/08/25	HM	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.8	ug/L	1	01/08/25	HM	SW8260D	
Vinyl chloride	16		5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	01/08/25	HM	70 - 130 %	
% Bromofluorobenzene	94				%	1	01/08/25	HM	70 - 130 %	
% Dibromofluoromethane	100				%	1	01/08/25	HM	70 - 130 %	
% Toluene-d8	100				%	1	01/08/25	HM	70 - 130 %	
1,4-dioxane										
1,4-dioxane	20		0.50	0.50	ug/l	1	01/13/25	AW	SW8270ESIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	80				%	1	01/13/25	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.4	3.4	ug/L	1	01/10/25	MR	SW8270E	
1,2,4-Trichlorobenzene	ND		4.8	1.4	ug/L	1	01/10/25	MR	SW8270E	
1,2-Dichlorobenzene	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
1,2-Diphenylhydrazine	ND		4.8	1.6	ug/L	1	01/10/25	MR	SW8270E	
1,3-Dichlorobenzene	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
1,4-Dichlorobenzene	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND		4.8	1.3	ug/L	1	01/10/25	MR	SW8270E	1
2,4,5-Trichlorophenol	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dichlorophenol	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dimethylphenol	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrophenol	ND		0.96	0.96	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrotoluene	ND		4.8	1.9	ug/L	1	01/10/25	MR	SW8270E	

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2,6-Dinitrotoluene	ND	4.8	1.5	ug/L	1	01/10/25	MR	SW8270E
2-Chloronaphthalene	ND	4.8	1.4	ug/L	1	01/10/25	MR	SW8270E
2-Chlorophenol	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
2-Methylnaphthalene	ND	4.8	1.4	ug/L	1	01/10/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
2-Nitroaniline	ND	4.8	1.9	ug/L	1	01/10/25	MR	SW8270E
2-Nitrophenol	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.8	2.3	ug/L	1	01/10/25	MR	SW8270E
3-Nitroaniline	ND	4.8	1.9	ug/L	1	01/10/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.8	1.4	ug/L	1	01/10/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
4-Chloroaniline	ND	3.4	2.2	ug/L	1	01/10/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	4.8	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitroaniline	ND	4.8	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitrophenol	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
Acenaphthene	ND	4.8	1.5	ug/L	1	01/10/25	MR	SW8270E
Acetophenone	ND	4.8	1.5	ug/L	1	01/10/25	MR	SW8270E
Aniline	ND	3.4	3.4	ug/L	1	01/10/25	MR	SW8270E
Anthracene	ND	4.8	1.6	ug/L	1	01/10/25	MR	SW8270E
Benzidine	ND	4.3	2.8	ug/L	1	01/10/25	MR	SW8270E
Benzoic acid	ND	24	9.6	ug/L	1	01/10/25	MR	SW8270E
Benzyl butyl phthalate	ND	4.8	1.2	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.8	1.3	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
Carbazole	ND	4.8	3.6	ug/L	1	01/10/25	MR	SW8270E
Dibenzofuran	ND	4.8	1.4	ug/L	1	01/10/25	MR	SW8270E
Diethyl phthalate	ND	4.8	1.5	ug/L	1	01/10/25	MR	SW8270E
Dimethylphthalate	ND	4.8	1.5	ug/L	1	01/10/25	MR	SW8270E
Di-n-butylphthalate	ND	4.8	1.3	ug/L	1	01/10/25	MR	SW8270E
Di-n-octylphthalate	ND	4.8	1.2	ug/L	1	01/10/25	MR	SW8270E
Fluoranthene	ND	4.8	1.6	ug/L	1	01/10/25	MR	SW8270E
Fluorene	ND	4.8	1.6	ug/L	1	01/10/25	MR	SW8270E
Hexachloroethane	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
Isophorone	ND	4.8	1.3	ug/L	1	01/10/25	MR	SW8270E
Naphthalene	ND	4.8	1.4	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.8	1.6	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.8	1.8	ug/L	1	01/10/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	01/10/25	MR	SW8270E
Phenol	ND	0.96	0.96	ug/L	1	01/10/25	MR	SW8270E
Pyrene	ND	4.8	1.7	ug/L	1	01/10/25	MR	SW8270E
Pyridine	ND	9.6	1.2	ug/L	1	01/10/25	MR	SW8270E
QA/QC Surrogates								
% 2,4,6-Tribromophenol	83			%	1	01/10/25	MR	15 - 110 %
% 2-Fluorobiphenyl	72			%	1	01/10/25	MR	30 - 130 %
% 2-Fluorophenol	61			%	1	01/10/25	MR	15 - 110 %
% Nitrobenzene-d5	67			%	1	01/10/25	MR	30 - 130 %

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Phenol-d5	65			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	74			%	1	01/10/25	MR	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.48	0.48	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.48	0.48	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.48	0.48	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.48	0.48	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.48	0.48	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	01/10/25	MR	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Pentachlorophenol	ND	0.48	0.48	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Phenanthrene	ND	0.48	0.48	ug/L	1	01/10/25	MR	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	81			%	1	01/10/25	MR	15 - 110 %	
% 2-Fluorobiphenyl	71			%	1	01/10/25	MR	30 - 130 %	
% 2-Fluorophenol	59			%	1	01/10/25	MR	15 - 110 %	
% Nitrobenzene-d5	73			%	1	01/10/25	MR	30 - 130 %	
% Phenol-d5	74			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	70			%	1	01/10/25	MR	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					01/10/25	G/G	SW8270ESIM	1

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

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

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

Comments:

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

*See attached

The regulatory hold time for Dissolved Oxygen is immediately. This DO was performed in the laboratory and may be considered outside of hold-time.

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 21, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 21, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/07/25	17:00
Location Code:	TOUCHSTONE	Received by:	SR1	01/08/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS40379
Phoenix ID: CS40382

Project ID: 60 GERRY ST.
Client ID: 23MW-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum	87.7	0.020	0.01	mg/L	1	01/10/25	TH	SW6010D
Arsenic	0.048	0.004	0.004	mg/L	1	01/10/25	TH	SW6010D
Barium	0.728	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Beryllium	0.007	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Calcium	173	0.10	0.10	mg/L	10	01/10/25	CPP	SW6010D
Cadmium	0.004	0.001	0.0005	mg/L	1	01/10/25	TH	SW6010D
Cobalt	0.090	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D
Chromium	0.247	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D
Copper	0.240	0.005	0.001	mg/L	1	01/10/25	TH	SW6010D
Silver (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Aluminum (Dissolved)	0.014	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Arsenic (Dissolved)	ND	0.004	0.004	mg/L	1	01/10/25	CPP	SW6010D
Barium (Dissolved)	0.115	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Calcium (Dissolved)	126	0.01	0.01	mg/L	1	01/10/25	CPP	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	01/10/25	CPP	SW6010D
Cobalt (Dissolved)	0.001	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Copper (Dissolved)	0.006	0.005	0.001	mg/L	1	01/10/25	CPP	SW6010D
Iron (Dissolved)	0.012	0.011	0.01	mg/L	1	01/10/25	CPP	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	01/15/25	JM	SW7470A
Potassium (Dissolved)	23.6	1.1	0.11	mg/L	10	01/14/25	TH	SW6010D
Magnesium (Dissolved)	30.4	0.01	0.01	mg/L	1	01/10/25	CPP	SW6010D
Manganese (Dissolved)	1.47	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Sodium (Dissolved)	200	1.1	0.11	mg/L	10	01/14/25	TH	SW6010D
Nickel (Dissolved)	0.003	0.001	0.001	mg/L	1	01/10/25	CPP	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D

Project ID: 60 GERRY ST.
Client ID: 23MW-2

Phoenix I.D.: CS40382

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)	ND	0.003	0.003	mg/L	1	01/10/25	CPP	SW6010D	
Selenium (Dissolved)	ND	0.010	0.010	mg/L	1	01/10/25	CPP	SW6010D	
Thallium (Dissolved)	ND	0.0005	0.0005	mg/L	1	01/14/25	ZT	SW7010	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	01/10/25	MGH	SW6020B	
Vanadium (Dissolved)	0.005	0.002	0.001	mg/L	1	01/10/25	CPP	SW6010D	
Zinc (Dissolved)	0.002	J 0.002	0.0012	mg/L	1	01/10/25	CPP	SW6010D	
Iron	221	0.10	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Mercury	0.0018	0.0002	0.00015	mg/L	1	01/09/25	ZT	SW7470A	
Potassium	36.8	1.0	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Magnesium	59.2	0.010	0.01	mg/L	1	01/10/25	CPP	SW6010D	
Manganese	4.63	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Sodium	211	1.0	0.10	mg/L	10	01/10/25	CPP	SW6010D	
Nickel	0.224	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Lead	0.457	0.001	0.001	mg/L	1	01/10/25	TH	SW6010D	
Antimony	ND	0.003	0.003	mg/L	1	01/10/25	CPP	SW6010D	
Selenium	ND	0.010	0.01	mg/L	1	01/10/25	CPP	SW6010D	
Thallium	0.0008	0.0005	0.0005	mg/L	5	01/10/25	MGH	SW6020B	
Vanadium	0.381	0.002	0.001	mg/L	1	01/10/25	TH	SW6010D	
Zinc	0.617	0.004	0.0011	mg/L	1	01/10/25	TH	SW6010D	
Alkalinity-CaCO3	337	20.0		mg/L	1	01/10/25	KG/EG	SM2320B-11	
Chloride	309	25.0	15	mg/L	5	01/09/25	DD/GD	E300.0	
Nitrate as Nitrogen	ND	0.05	0.01	mg/L	1	01/08/25 18:10	DD/GD	E300.0	
pH	7.62	1.00	1.00	pH Units	1	01/09/25 00:16	MW	SM4500-H B-11	1
Redox Potential	217			mV	1	01/09/25	MW	SM2580B-09	1
Sulfate	116	25.0	12.5	mg/L	5	01/09/25	DD/GD	E300.0	
Lab Filtration	Completed					01/09/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					01/14/25	AK/AK/GW	SW7470A	
Mercury Digestion	Completed					01/09/25	AK/AK	SW7470A	
PCB Extraction (LDL)	Completed					01/08/25	M/M	SW3510C	
Extraction for Pest (LDL)	Completed					01/08/25	M/M	SW3510C	
Semi-Volatile Extraction	Completed					01/08/25	Z/MQ	SW3520C	
Total Metals Digestion (GFAA)	Completed					01/09/25	AG	SM3113B-10	
Dissolved Metals Preparation	Completed					01/09/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					01/09/25	AG	SW3005A	
Total Metals Digestion	Completed					01/09/25	AG	SW3010A	
Total Metals Digestion MS	Completed					01/09/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed					01/13/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	6.70	1.22	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	6.81	1.82	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	6.65	1.59	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	6.74	6.65	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	4.43	1.80	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	22.2	6.50	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	22.2	8.39	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	6.63	0.620	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
ADONA	ND	6.70	0.470	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND	7.09	2.86	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C

Project ID: 60 GERRY ST.
Client ID: 23MW-2

Phoenix I.D.: CS40382

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
NEtFOSA	ND	1.77	1.60	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND	1.77	0.913	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND	17.7	3.54	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NFDHA	ND	3.54	1.90	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND	1.77	1.40	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND	1.77	0.700	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND	17.7	3.54	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.71	1.17	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.69	0.806	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.77	0.780	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	4.27	1.57	0.417	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	1.77	0.665	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	1.72	0.824	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	1.77	0.780	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	8.92	1.77	0.629	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	2.84	1.62	0.603	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	15.0	1.77	0.310	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	18.7	7.09	0.292	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	1.70	0.762	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	2.24	1.77	0.461	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	19.3	1.65	0.727	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	24.3	1.77	0.372	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	1.67	0.674	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	16.9	3.54	0.204	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	1.77	0.611	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.77	0.656	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	1.77	1.00	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFEESA	ND	3.15	0.443	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMBA	ND	3.54	0.328	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMPA	ND	3.54	0.222	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	69.5			%	1	01/15/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	70.8			%	1	01/15/25	AM	25 - 150 %	C
% d7-N-MeFOSE	46.3			%	1	01/15/25	AM	25 - 150 %	C
% d9-N-EtFOSE	33.9			%	1	01/15/25	AM	25 - 150 %	C
% d-N-EtFOSA	18.3			%	1	01/15/25	AM	25 - 150 %	C,3
% d-N-MeFOSA	20.6			%	1	01/15/25	AM	25 - 150 %	C,3
% M2-4:2 FTS	108			%	1	01/15/25	AM	25 - 150 %	C
% M2-6:2 FTS	50.8			%	1	01/15/25	AM	25 - 200 %	C
% M2-8:2 FTS	39.6			%	1	01/15/25	AM	25 - 200 %	C
% M2PFTEDA	20.9			%	1	01/15/25	AM	10 - 150 %	C
% M3HFPO-DA	62.8			%	1	01/15/25	AM	25 - 150 %	C
% M3PFBS	125			%	1	01/15/25	AM	25 - 150 %	C
% M3PFHxS	127			%	1	01/15/25	AM	25 - 150 %	C
% M4PFHpA	108			%	1	01/15/25	AM	25 - 150 %	C
% M5PFHxA	128			%	1	01/15/25	AM	25 - 150 %	C
% M5PFPEA	118			%	1	01/15/25	AM	25 - 150 %	C
% M6PFDA	104			%	1	01/15/25	AM	25 - 150 %	C
% M7PFUDA	88.5			%	1	01/15/25	AM	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M8FOSA	94.8			%	1	01/15/25	AM	10 - 150 %	C
% M8PFOA	134			%	1	01/15/25	AM	25 - 150 %	C
% M8PFOS	123			%	1	01/15/25	AM	25 - 150 %	C
% M9PFNA	118			%	1	01/15/25	AM	25 - 150 %	C
% MPFBA	40.3			%	1	01/15/25	AM	25 - 150 %	C
% MPFDOA	49.5			%	1	01/15/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Alachlor	ND	0.073	0.073	ug/L	1	01/09/25	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	01/09/25	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
Chlordane	ND	0.049	0.049	ug/L	1	01/09/25	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
Dieldrin	ND	0.004	0.004	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	01/09/25	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	01/09/25	AW	SW8081B	
Methoxychlor	ND	0.097	0.097	ug/L	1	01/09/25	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	01/09/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	35			%	1	01/09/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	29			%	1	01/09/25	AW	30 - 150 %	3
%TCMX (Surrogate Rec)	68			%	1	01/09/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	58			%	1	01/09/25	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1221	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1232	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1242	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1248	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1254	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1260	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1262	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
PCB-1268	ND	0.049	0.049	ug/L	1	01/09/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	38			%	1	01/09/25	SC	30 - 150 %	
% DCBP (Confirmation)	31			%	1	01/09/25	SC	30 - 150 %	

Project ID: 60 GERRY ST.
Client ID: 23MW-2

Phoenix I.D.: CS40382

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% TCMX	59			%	1	01/09/25	SC	30 - 150 %	
% TCMX (Confirmation)	66			%	1	01/09/25	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.2	ug/L	1	01/08/25	HM	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.75	ug/L	1	01/08/25	HM	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.0	0.60	ug/L	1	01/08/25	HM	SW8260D	
1,1,2-Trichloroethane	ND	1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethane	ND	5.0	0.92	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethene	ND	5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloropropene	ND	5.0	0.85	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichlorobenzene	ND	5.0	4.9	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichloropropane	ND	2.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trichlorobenzene	ND	5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trimethylbenzene	ND	5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.7	1.7	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromoethane	ND	1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichlorobenzene	ND	4.7	0.56	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloroethane	ND	0.60	0.49	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloropropane	ND	1.0	0.55	ug/L	1	01/08/25	HM	SW8260D	
1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichlorobenzene	ND	3.0	0.17	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichloropropane	ND	5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	
1,4-Dichlorobenzene	ND	5.0	0.79	ug/L	1	01/08/25	HM	SW8260D	
2,2-Dichloropropane	ND	5.0	0.74	ug/L	1	01/08/25	HM	SW8260D	
2-Chlorotoluene	ND	5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
2-Hexanone	ND	25	2.5	ug/L	1	01/08/25	HM	SW8260D	
2-Isopropyltoluene	ND	5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	1
4-Chlorotoluene	ND	5.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
4-Methyl-2-pentanone	ND	25	2.0	ug/L	1	01/08/25	HM	SW8260D	
Acetone	ND	50	5.6	ug/L	1	01/08/25	HM	SW8260D	
Acrylonitrile	ND	5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
Benzene	1.8	0.70	0.51	ug/L	1	01/08/25	HM	SW8260D	
Bromobenzene	ND	5.0	0.89	ug/L	1	01/08/25	HM	SW8260D	
Bromochloromethane	ND	5.0	1.3	ug/L	1	01/08/25	HM	SW8260D	
Bromodichloromethane	ND	5.0	0.49	ug/L	1	01/08/25	HM	SW8260D	
Bromoform	ND	5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Bromomethane	ND	5.0	4.2	ug/L	1	01/08/25	HM	SW8260D	
Carbon Disulfide	ND	5.0	0.39	ug/L	1	01/08/25	HM	SW8260D	
Carbon tetrachloride	ND	5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chlorobenzene	ND	5.0	0.87	ug/L	1	01/08/25	HM	SW8260D	
Chloroethane	ND	5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chloroform	ND	5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Chloromethane	ND	5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
cis-1,2-Dichloroethene	42	5.0	0.36	ug/L	1	01/08/25	HM	SW8260D	
cis-1,3-Dichloropropene	ND	0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
Dibromochloromethane	ND	5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
Dibromomethane	ND	5.0	0.67	ug/L	1	01/08/25	HM	SW8260D	
Dichlorodifluoromethane	ND	5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Ethylbenzene	ND	5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachlorobutadiene	ND		0.5	0.5	ug/L	1	01/08/25	HM	SW8260D	
Isopropylbenzene	ND		5.0	0.78	ug/L	1	01/08/25	HM	SW8260D	
m&p-Xylene	ND		5.0	2.1	ug/L	1	01/08/25	HM	SW8260D	
Methyl Ethyl Ketone	ND		30	3.9	ug/L	1	01/08/25	HM	SW8260D	
Methyl t-butyl ether (MTBE)	2.8	J	10	0.63	ug/L	1	01/08/25	HM	SW8260D	
Methylene chloride	ND		5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
Naphthalene	ND		5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
n-Butylbenzene	ND		5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
n-Propylbenzene	ND		5.0	0.82	ug/L	1	01/08/25	HM	SW8260D	
o-Xylene	ND		5.0	1.5	ug/L	1	01/08/25	HM	SW8260D	
p-Isopropyltoluene	ND		5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
sec-Butylbenzene	ND		5.0	0.54	ug/L	1	01/08/25	HM	SW8260D	
Styrene	ND		5.0	1.9	ug/L	1	01/08/25	HM	SW8260D	
tert-Butylbenzene	ND		5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
Tetrachloroethene	150		5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Tetrahydrofuran (THF)	ND		10	6.1	ug/L	1	01/08/25	HM	SW8260D	1
Toluene	ND		5.0	0.45	ug/L	1	01/08/25	HM	SW8260D	
Total Xylenes	ND		5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
trans-1,2-Dichloroethene	ND		5.0	0.94	ug/L	1	01/08/25	HM	SW8260D	
trans-1,3-Dichloropropene	ND		0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
trans-1,4-dichloro-2-butene	ND		5	5	ug/L	1	01/08/25	HM	SW8260D	
Trichloroethene	19		5.0	0.88	ug/L	1	01/08/25	HM	SW8260D	
Trichlorofluoromethane	ND		5.0	0.59	ug/L	1	01/08/25	HM	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.8	ug/L	1	01/08/25	HM	SW8260D	
Vinyl chloride	1.1	J	2.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	01/08/25	HM	70 - 130 %	
% Bromofluorobenzene	95				%	1	01/08/25	HM	70 - 130 %	
% Dibromofluoromethane	99				%	1	01/08/25	HM	70 - 130 %	
% Toluene-d8	100				%	1	01/08/25	HM	70 - 130 %	
1,4-dioxane										
1,4-dioxane	2.0		0.50	0.50	ug/l	1	01/13/25	AW	SW8270ESIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	80				%	1	01/13/25	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.3	3.3	ug/L	1	01/10/25	MR	SW8270E	
1,2,4-Trichlorobenzene	ND		4.7	1.4	ug/L	1	01/10/25	MR	SW8270E	
1,2-Dichlorobenzene	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
1,2-Diphenylhydrazine	ND		4.7	1.5	ug/L	1	01/10/25	MR	SW8270E	
1,3-Dichlorobenzene	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
1,4-Dichlorobenzene	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND		4.7	1.3	ug/L	1	01/10/25	MR	SW8270E	1
2,4,5-Trichlorophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dichlorophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dimethylphenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrophenol	ND		0.94	0.94	ug/L	1	01/10/25	MR	SW8270E	
2,4-Dinitrotoluene	ND		4.7	1.9	ug/L	1	01/10/25	MR	SW8270E	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
2-Chlorophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
2-Methylnaphthalene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
2-Nitroaniline	ND	4.7	1.9	ug/L	1	01/10/25	MR	SW8270E
2-Nitrophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	01/10/25	MR	SW8270E
3-Nitroaniline	ND	4.7	1.9	ug/L	1	01/10/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
4-Chloroaniline	ND	3.3	2.2	ug/L	1	01/10/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitroaniline	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
4-Nitrophenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Acenaphthene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
Acetophenone	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Aniline	ND	3.3	3.3	ug/L	1	01/10/25	MR	SW8270E
Anthracene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Benzidine	ND	4.2	2.8	ug/L	1	01/10/25	MR	SW8270E
Benzoic acid	ND	24	9.4	ug/L	1	01/10/25	MR	SW8270E
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Carbazole	ND	4.7	3.6	ug/L	1	01/10/25	MR	SW8270E
Dibenzofuran	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
Diethyl phthalate	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Dimethylphthalate	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	01/10/25	MR	SW8270E
Fluoranthene	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
Fluorene	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
Hexachloroethane	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Isophorone	ND	4.7	1.3	ug/L	1	01/10/25	MR	SW8270E
Naphthalene	ND	4.7	1.4	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	01/10/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	01/10/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	01/10/25	MR	SW8270E
Phenol	ND	0.94	0.94	ug/L	1	01/10/25	MR	SW8270E
Pyrene	ND	4.7	1.6	ug/L	1	01/10/25	MR	SW8270E
Pyridine	ND	9.4	1.2	ug/L	1	01/10/25	MR	SW8270E
QA/QC Surrogates								
% 2,4,6-Tribromophenol	88			%	1	01/10/25	MR	15 - 110 %
% 2-Fluorobiphenyl	76			%	1	01/10/25	MR	30 - 130 %
% 2-Fluorophenol	56			%	1	01/10/25	MR	15 - 110 %
% Nitrobenzene-d5	68			%	1	01/10/25	MR	30 - 130 %

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Client ID: 23MW-2

Phoenix I.D.: CS40382

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Phenol-d5	62			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	24			%	1	01/10/25	MR	30 - 130 %	3
Semivolatiles									
Acenaphthylene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benz(a)anthracene	0.07	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(a)pyrene	0.06	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(b)fluoranthene	0.06	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Benzo(k)fluoranthene	0.05	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Chrysene	0.07	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	0.04	0.02	0.02	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	01/10/25	MR	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.09	0.09	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Pentachlorophenol	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
Phenanthrene	ND	0.47	0.47	ug/L	1	01/10/25	MR	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	88			%	1	01/10/25	MR	15 - 110 %	
% 2-Fluorobiphenyl	71			%	1	01/10/25	MR	30 - 130 %	
% 2-Fluorophenol	55			%	1	01/10/25	MR	15 - 110 %	
% Nitrobenzene-d5	74			%	1	01/10/25	MR	30 - 130 %	
% Phenol-d5	72			%	1	01/10/25	MR	15 - 110 %	
% Terphenyl-d14	23			%	1	01/10/25	MR	30 - 130 %	3
Extraction for 1,4-Dioxane	Completed					01/10/25	G/G	SW8270ESIM	1

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

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

*See attached

The regulatory hold time for Dissolved Oxygen is immediately. This DO was performed in the laboratory and may be considered outside of hold-time.

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

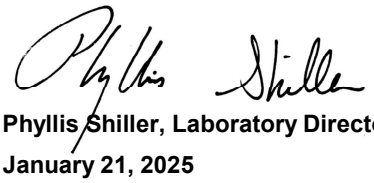
Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
January 21, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 21, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/07/25	
Location Code:	TOUCHSTONE	Received by:	SR1	01/08/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS40379
Phoenix ID: CS40383

Project ID: 60 GERRY ST.
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.2	ug/L	1	01/08/25	HM	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.75	ug/L	1	01/08/25	HM	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.0	0.60	ug/L	1	01/08/25	HM	SW8260D	
1,1,2-Trichloroethane	ND	1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethane	ND	5.0	0.92	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethene	ND	5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloropropene	ND	5.0	0.85	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichlorobenzene	ND	5.0	4.9	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichloropropane	ND	2.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trichlorobenzene	ND	5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trimethylbenzene	ND	5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.7	1.7	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromoethane	ND	1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichlorobenzene	ND	4.7	0.56	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloroethane	ND	0.60	0.49	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloropropane	ND	1.0	0.55	ug/L	1	01/08/25	HM	SW8260D	
1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichlorobenzene	ND	3.0	0.17	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichloropropane	ND	5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	
1,4-Dichlorobenzene	ND	5.0	0.79	ug/L	1	01/08/25	HM	SW8260D	
2,2-Dichloropropane	ND	5.0	0.74	ug/L	1	01/08/25	HM	SW8260D	
2-Chlorotoluene	ND	5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
2-Hexanone	ND	25	2.5	ug/L	1	01/08/25	HM	SW8260D	
2-Isopropyltoluene	ND	5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	1
4-Chlorotoluene	ND	5.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
4-Methyl-2-pentanone	ND	25	2.0	ug/L	1	01/08/25	HM	SW8260D	

Project ID: 60 GERRY ST.
Client ID: TRIP BLANK

Phoenix I.D.: CS40383

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	50	5.6	ug/L	1	01/08/25	HM	SW8260D	
Acrylonitrile	ND	5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
Benzene	ND	0.70	0.51	ug/L	1	01/08/25	HM	SW8260D	
Bromobenzene	ND	5.0	0.89	ug/L	1	01/08/25	HM	SW8260D	
Bromochloromethane	ND	5.0	1.3	ug/L	1	01/08/25	HM	SW8260D	
Bromodichloromethane	ND	5.0	0.49	ug/L	1	01/08/25	HM	SW8260D	
Bromoform	ND	5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Bromomethane	ND	5.0	4.2	ug/L	1	01/08/25	HM	SW8260D	
Carbon Disulfide	ND	5.0	0.39	ug/L	1	01/08/25	HM	SW8260D	
Carbon tetrachloride	ND	5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chlorobenzene	ND	5.0	0.87	ug/L	1	01/08/25	HM	SW8260D	
Chloroethane	ND	5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chloroform	ND	5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Chloromethane	ND	5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
cis-1,2-Dichloroethene	ND	5.0	0.36	ug/L	1	01/08/25	HM	SW8260D	
cis-1,3-Dichloropropene	ND	0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
Dibromochloromethane	ND	5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
Dibromomethane	ND	5.0	0.67	ug/L	1	01/08/25	HM	SW8260D	
Dichlorodifluoromethane	ND	5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Ethylbenzene	ND	5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	
Hexachlorobutadiene	ND	0.5	0.5	ug/L	1	01/08/25	HM	SW8260D	
Isopropylbenzene	ND	5.0	0.78	ug/L	1	01/08/25	HM	SW8260D	
m&p-Xylene	ND	5.0	2.1	ug/L	1	01/08/25	HM	SW8260D	
Methyl Ethyl Ketone	ND	30	3.9	ug/L	1	01/08/25	HM	SW8260D	
Methyl t-butyl ether (MTBE)	ND	10	0.63	ug/L	1	01/08/25	HM	SW8260D	
Methylene chloride	ND	5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
Naphthalene	ND	5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
n-Butylbenzene	ND	5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
n-Propylbenzene	ND	5.0	0.82	ug/L	1	01/08/25	HM	SW8260D	
o-Xylene	ND	5.0	1.5	ug/L	1	01/08/25	HM	SW8260D	
p-Isopropyltoluene	ND	5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
sec-Butylbenzene	ND	5.0	0.54	ug/L	1	01/08/25	HM	SW8260D	
Styrene	ND	5.0	1.9	ug/L	1	01/08/25	HM	SW8260D	
tert-Butylbenzene	ND	5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
Tetrachloroethene	ND	5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Tetrahydrofuran (THF)	ND	10	6.1	ug/L	1	01/08/25	HM	SW8260D	1
Toluene	ND	5.0	0.45	ug/L	1	01/08/25	HM	SW8260D	
Total Xylenes	ND	5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.94	ug/L	1	01/08/25	HM	SW8260D	
trans-1,3-Dichloropropene	ND	0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
trans-1,4-dichloro-2-butene	ND	5	5	ug/L	1	01/08/25	HM	SW8260D	
Trichloroethene	ND	5.0	0.88	ug/L	1	01/08/25	HM	SW8260D	
Trichlorofluoromethane	ND	5.0	0.59	ug/L	1	01/08/25	HM	SW8260D	
Trichlorotrifluoroethane	ND	5.0	1.8	ug/L	1	01/08/25	HM	SW8260D	
Vinyl chloride	ND	2.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	97			%	1	01/08/25	HM	70 - 130 %	
% Bromofluorobenzene	95			%	1	01/08/25	HM	70 - 130 %	
% Dibromofluoromethane	101			%	1	01/08/25	HM	70 - 130 %	

Ver 1

Project ID: 60 GERRY ST.
Client ID: TRIP BLANK

Phoenix I.D.: CS40383

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100			%	1	01/08/25	HM	70 - 130 %

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

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

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 21, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 21, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/07/25	
Location Code:	TOUCHSTONE	Received by:	SR1	01/08/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS40379
Phoenix ID: CS40384

Project ID: 60 GERRY ST.
Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	5.0	1.2	ug/L	1	01/08/25	HM	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.75	ug/L	1	01/08/25	HM	SW8260D	
1,1,2,2-Tetrachloroethane	ND	5.0	0.60	ug/L	1	01/08/25	HM	SW8260D	
1,1,2-Trichloroethane	ND	1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethane	ND	5.0	0.92	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloroethene	ND	5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
1,1-Dichloropropene	ND	5.0	0.85	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichlorobenzene	ND	5.0	4.9	ug/L	1	01/08/25	HM	SW8260D	
1,2,3-Trichloropropane	ND	2.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trichlorobenzene	ND	5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
1,2,4-Trimethylbenzene	ND	5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.7	1.7	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dibromoethane	ND	1.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichlorobenzene	ND	4.7	0.56	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloroethane	ND	0.60	0.49	ug/L	1	01/08/25	HM	SW8260D	
1,2-Dichloropropane	ND	1.0	0.55	ug/L	1	01/08/25	HM	SW8260D	
1,3,5-Trimethylbenzene	ND	5.0	0.58	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichlorobenzene	ND	3.0	0.17	ug/L	1	01/08/25	HM	SW8260D	
1,3-Dichloropropane	ND	5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	
1,4-Dichlorobenzene	ND	5.0	0.79	ug/L	1	01/08/25	HM	SW8260D	
2,2-Dichloropropane	ND	5.0	0.74	ug/L	1	01/08/25	HM	SW8260D	
2-Chlorotoluene	ND	5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
2-Hexanone	ND	25	2.5	ug/L	1	01/08/25	HM	SW8260D	
2-Isopropyltoluene	ND	5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	1
4-Chlorotoluene	ND	5.0	2.0	ug/L	1	01/08/25	HM	SW8260D	
4-Methyl-2-pentanone	ND	25	2.0	ug/L	1	01/08/25	HM	SW8260D	

Project ID: 60 GERRY ST.
Client ID: FIELD BLANK

Phoenix I.D.: CS40384

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		50	5.6	ug/L	1	01/08/25	HM	SW8260D	
Acrylonitrile	ND		5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
Benzene	ND		0.70	0.51	ug/L	1	01/08/25	HM	SW8260D	
Bromobenzene	ND		5.0	0.89	ug/L	1	01/08/25	HM	SW8260D	
Bromochloromethane	ND		5.0	1.3	ug/L	1	01/08/25	HM	SW8260D	
Bromodichloromethane	ND		5.0	0.49	ug/L	1	01/08/25	HM	SW8260D	
Bromoform	ND		5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Bromomethane	ND		5.0	4.2	ug/L	1	01/08/25	HM	SW8260D	
Carbon Disulfide	ND		5.0	0.39	ug/L	1	01/08/25	HM	SW8260D	
Carbon tetrachloride	ND		5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chlorobenzene	ND		5.0	0.87	ug/L	1	01/08/25	HM	SW8260D	
Chloroethane	ND		5.0	1.0	ug/L	1	01/08/25	HM	SW8260D	
Chloroform	ND		5.0	1.1	ug/L	1	01/08/25	HM	SW8260D	
Chloromethane	ND		5.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
cis-1,2-Dichloroethene	ND		5.0	0.36	ug/L	1	01/08/25	HM	SW8260D	
cis-1,3-Dichloropropene	ND		0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
Dibromochloromethane	ND		5.0	0.69	ug/L	1	01/08/25	HM	SW8260D	
Dibromomethane	ND		5.0	0.67	ug/L	1	01/08/25	HM	SW8260D	
Dichlorodifluoromethane	ND		5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Ethylbenzene	ND		5.0	0.95	ug/L	1	01/08/25	HM	SW8260D	
Hexachlorobutadiene	ND		0.5	0.5	ug/L	1	01/08/25	HM	SW8260D	
Isopropylbenzene	ND		5.0	0.78	ug/L	1	01/08/25	HM	SW8260D	
m&p-Xylene	ND		5.0	2.1	ug/L	1	01/08/25	HM	SW8260D	
Methyl Ethyl Ketone	ND		30	3.9	ug/L	1	01/08/25	HM	SW8260D	
Methyl t-butyl ether (MTBE)	ND		10	0.63	ug/L	1	01/08/25	HM	SW8260D	
Methylene chloride	1.9	JS	5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
Naphthalene	ND		5.0	2.2	ug/L	1	01/08/25	HM	SW8260D	
n-Butylbenzene	ND		5.0	1.4	ug/L	1	01/08/25	HM	SW8260D	
n-Propylbenzene	ND		5.0	0.82	ug/L	1	01/08/25	HM	SW8260D	
o-Xylene	ND		5.0	1.5	ug/L	1	01/08/25	HM	SW8260D	
p-Isopropyltoluene	ND		5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
sec-Butylbenzene	ND		5.0	0.54	ug/L	1	01/08/25	HM	SW8260D	
Styrene	ND		5.0	1.9	ug/L	1	01/08/25	HM	SW8260D	
tert-Butylbenzene	ND		5.0	0.48	ug/L	1	01/08/25	HM	SW8260D	
Tetrachloroethene	ND		5.0	0.76	ug/L	1	01/08/25	HM	SW8260D	
Tetrahydrofuran (THF)	ND		10	6.1	ug/L	1	01/08/25	HM	SW8260D	1
Toluene	ND		5.0	0.45	ug/L	1	01/08/25	HM	SW8260D	
Total Xylenes	ND		5.0	5.0	ug/L	1	01/08/25	HM	SW8260D	
trans-1,2-Dichloroethene	ND		5.0	0.94	ug/L	1	01/08/25	HM	SW8260D	
trans-1,3-Dichloropropene	ND		0.4	0.4	ug/L	1	01/08/25	HM	SW8260D	
trans-1,4-dichloro-2-butene	ND		5	5	ug/L	1	01/08/25	HM	SW8260D	
Trichloroethene	ND		5.0	0.88	ug/L	1	01/08/25	HM	SW8260D	
Trichlorofluoromethane	ND		5.0	0.59	ug/L	1	01/08/25	HM	SW8260D	
Trichlorotrifluoroethane	ND		5.0	1.8	ug/L	1	01/08/25	HM	SW8260D	
Vinyl chloride	ND		2.0	0.84	ug/L	1	01/08/25	HM	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	98				%	1	01/08/25	HM	70 - 130 %	
% Bromofluorobenzene	96				%	1	01/08/25	HM	70 - 130 %	
% Dibromofluoromethane	99				%	1	01/08/25	HM	70 - 130 %	

Ver 1

Project ID: 60 GERRY ST.
Client ID: FIELD BLANK

Phoenix I.D.: CS40384

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100			%	1	01/08/25	HM	70 - 130 %

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

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

Comments:

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 21, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 21, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/07/25	
Location Code:	TOUCHSTONE	Received by:	SR1	01/08/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS40379
Phoenix ID: CS40385

Project ID: 60 GERRY ST.
Client ID: PFAS FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					01/13/25	AM	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	7.12	1.30	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	7.23	1.93	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	7.06	1.69	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	7.16	7.06	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	4.71	1.91	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	23.5	6.90	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	23.5	8.92	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	7.05	0.659	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
ADONA	ND	7.12	0.499	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND	7.54	3.04	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND	1.88	1.70	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND	1.88	0.970	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND	18.8	3.76	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NFDHA	ND	3.77	2.02	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND	1.88	1.49	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND	1.88	0.744	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND	18.8	3.76	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.82	1.24	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.80	0.857	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.88	0.829	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	1.67	0.443	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	1.88	0.706	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	1.83	0.876	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	1.88	0.829	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	1.88	0.669	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C

Project ID: 60 GERRY ST.
Client ID: PFAS FIELD BLANK

Phoenix I.D.: CS40385

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.72	0.641	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	1.88	0.330	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	7.54	0.311	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	1.81	0.810	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	1.88	0.490	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	ND	1.75	0.772	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	1.88	0.396	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	1.77	0.716	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	3.77	0.217	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	1.88	0.650	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.88	0.697	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	1.88	1.06	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFEESA	ND	3.35	0.471	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMBA	ND	3.77	0.349	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
PFMPA	ND	3.77	0.235	ng/L	1	01/15/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	110			%	1	01/15/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	131			%	1	01/15/25	AM	25 - 150 %	C
% d7-N-MeFOSE	186			%	1	01/15/25	AM	25 - 150 %	C,3
% d9-N-EtFOSE	151			%	1	01/15/25	AM	25 - 150 %	C,3
% d-N-EtFOSA	76.7			%	1	01/15/25	AM	25 - 150 %	C
% d-N-MeFOSA	82.2			%	1	01/15/25	AM	25 - 150 %	C
% M2-4:2 FTS	34.0			%	1	01/15/25	AM	25 - 150 %	C
% M2-6:2 FTS	38.6			%	1	01/15/25	AM	25 - 200 %	C
% M2-8:2 FTS	50.8			%	1	01/15/25	AM	25 - 200 %	C
% M2PFTEDA	73.5			%	1	01/15/25	AM	10 - 150 %	C
% M3HFPO-DA	75.6			%	1	01/15/25	AM	25 - 150 %	C
% M3PFBS	135			%	1	01/15/25	AM	25 - 150 %	C
% M3PFHxS	140			%	1	01/15/25	AM	25 - 150 %	C
% M4PFHpA	132			%	1	01/15/25	AM	25 - 150 %	C
% M5PFHxA	126			%	1	01/15/25	AM	25 - 150 %	C
% M5PFPEA	93.9			%	1	01/15/25	AM	25 - 150 %	C
% M6PFDA	121			%	1	01/15/25	AM	25 - 150 %	C
% M7PFUDA	129			%	1	01/15/25	AM	25 - 150 %	C
% M8FOSA	129			%	1	01/15/25	AM	10 - 150 %	C
% M8PFOA	132			%	1	01/15/25	AM	25 - 150 %	C
% M8PFOS	133			%	1	01/15/25	AM	25 - 150 %	C
% M9PFNA	144			%	1	01/15/25	AM	25 - 150 %	C
% MPFBA	4.01			%	1	01/15/25	AM	25 - 150 %	C,3
% MPFDOA	112			%	1	01/15/25	AM	25 - 150 %	C

Project ID: 60 GERRY ST.
Client ID: PFAS FIELD BLANK

Phoenix I.D.: CS40385

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

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 21, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 21, 2025

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 765977 (mg/L), QC Sample No: CS40459 (CS40379, CS40380, CS40381, CS40382)													
Thallium (Dissolved)	BRL	0.002	<0.0005	<0.002	NC	91.4			84.7			75 - 125	20
QA/QC Batch 765669 (mg/L), QC Sample No: CS40856 (CS40379, CS40381, CS40382)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	108			105	103	1.9	75 - 125	20
QA/QC Batch 766105 (mg/L), QC Sample No: CS41543 (CS40380)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	106			103	108	4.7	75 - 125	20
QA/QC Batch 766359 (mg/L), QC Sample No: CS41593 (CS40379, CS40380, CS40381, CS40382)													
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0002	NC	99.2			100			75 - 125	20
QA/QC Batch 765768 (mg/L), QC Sample No: CS40401 (CS40379, CS40380, CS40381, CS40382)													
ICP Metals - Aqueous													
Aluminum	BRL	0.020	<0.020	<0.020	NC	102	96.3	5.7	97.8			80 - 120	20
Antimony	BRL	0.005	<0.005	<0.005	NC	103	97.4	5.6	98.6			70 - 130	30
Arsenic	BRL	0.004	<0.004	<0.004	NC	105	99.8	5.1	101			80 - 120	20
Barium	BRL	0.002	0.013	0.013	0	105	99.4	5.5	102			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	107	102	4.8	103			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	106	101	4.8	102			80 - 120	20
Calcium	BRL	0.010	8.13	7.95	2.20	105	98.2	6.7	NC			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	104	99.0	4.9	101			80 - 120	20
Cobalt	BRL	0.002	<0.002	<0.002	NC	106	101	4.8	102			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	106	101	4.8	103			80 - 120	20
Iron	BRL	0.010	0.064	0.066	3.10	105	99.2	5.7	101			80 - 120	20
Lead	BRL	0.001	0.002	0.002	NC	105	100	4.9	101			80 - 120	20
Magnesium	BRL	0.010	2.03	1.97	3.00	106	101	4.8	86.2			80 - 120	20
Manganese	BRL	0.001	0.029	0.029	0	103	97.6	5.4	99.9			80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	107	101	5.8	103			80 - 120	20
Potassium	BRL	0.1	0.7	0.7	0	101	97.7	3.3	97.7			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	103	97.6	5.4	97.0			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	105	102	2.9	101			70 - 130	30
Sodium	BRL	0.10	11.6	11.2	3.50	109	103	5.7	NC			80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	105	99.6	5.3	101			80 - 120	20
Zinc	BRL	0.004	0.005	0.005	NC	106	100	5.8	101			80 - 120	20
QA/QC Batch 765805 (mg/L), QC Sample No: CS41180 (CS40379, CS40380, CS40381, CS40382)													
ICP Metals - Dissolved													
Aluminum	BRL	0.011	<0.011	<0.011	NC	89.0	88.6	0.5	89.1	88.9	0.2	80 - 120	20
Antimony	BRL	0.005	<0.005	<0.005	NC	88.7	88.4	0.3	88.7	87.3	1.6	70 - 130	30
Arsenic	BRL	0.004	<0.004	<0.004	NC	91.2	90.8	0.4	91.9	91.6	0.3	80 - 120	20
Barium	BRL	0.002	0.073	0.074	1.40	92.2	91.2	1.1	91.2	90.5	0.8	80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	92.8	92.5	0.3	93.1	92.2	1.0	80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	91.8	91.8	0.0	89.4	89.3	0.1	80 - 120	20
Calcium	BRL	0.01	101	104	2.90	92.4	92.3	0.1	NC	NC	NC	80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	90.9	90.6	0.3	90.1	90.0	0.1	80 - 120	20
Cobalt	BRL	0.001	0.002	0.002	NC	90.9	90.6	0.3	89.3	89.1	0.2	80 - 120	20

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Copper	BRL	0.005	<0.005	<0.005	NC	91.6	90.7	1.0	92.2	91.6	0.7	80 - 120	20
Iron	BRL	0.011	0.663	0.679	2.40	91.7	91.4	0.3	90.3	93.7	3.7	80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	91.9	91.7	0.2	90.2	89.4	0.9	80 - 120	20
Magnesium	BRL	0.01	14.1	14.4	2.10	92.6	92.0	0.7	NC	NC	NC	80 - 120	20
Manganese	BRL	0.001	1.18	1.21	2.50	92.6	92.2	0.4	92.0	91.9	0.1	80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	90.7	90.5	0.2	88.5	88.0	0.6	80 - 120	20
Potassium	BRL	0.1	4.8	4.8	0	89.1	87.2	2.2	89.7	90.4	0.8	80 - 120	20
Selenium	BRL	0.011	<0.011	<0.011	NC	89.7	89.7	0.0	93.0	91.8	1.3	80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	91.1	90.5	0.7	91.4	91.0	0.4	70 - 130	30
Sodium	BRL	0.11	52.9	52.9	0	91.2	88.8	2.7	NC	NC	NC	80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	92.0	91.4	0.7	91.4	91.1	0.3	80 - 120	20
Zinc	BRL	0.002	0.003	<0.002	NC	90.0	89.6	0.4	88.9	88.5	0.5	80 - 120	20
QA/QC Batch 765770 (mg/L), QC Sample No: CS40560 5X (CS40379, CS40380, CS40381, CS40382)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	107	107	0.0	99.6			80 - 120	20
QA/QC Batch 765807 (mg/L), QC Sample No: CS41594 2X (CS40379, CS40380, CS40381, CS40382)													
ICP Metals MS - Dissolved													
Thallium	BRL	0.0006	<0.0006	<0.0006	NC	86.4	88.2	2.1	77.8			80 - 120	20

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

QA/QC Report

January 21, 2025

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 765611 (PH), QC Sample No: CS40019 (CS40379, CS40380, CS40381, CS40382)													
pH			6.68	6.67	0.10	100						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 765612 (mV), QC Sample No: CS40019 (CS40379, CS40380, CS40381, CS40382)													
Redox Potential			267	253	NC	99.2						75 - 125	30
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 765781 (mg/L), QC Sample No: CS40228 (CS40379, CS40380, CS40381, CS40382)													
Alkalinity-CaCO3	BRL	5.00	31	31	NC	90.8						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 765730 (mg/L), QC Sample No: CS39948 (CS40379, CS40380, CS40381, CS40382)													
Chloride	BRL	5.0	<5.0	<5.0	NC	93.2			90.1			90 - 110	20
Nitrate as Nitrogen	BRL	0.05	<0.01	<0.05	NC	99.6			98.1			90 - 110	20
Sulfate	BRL	5.0	<5.0	<5.0	NC	95.1			91.1			90 - 110	20
QA/QC Batch 765732 (mg/L), QC Sample No: CS40440 (CS40379, CS40380, CS40381, CS40382)													
Chloride	BRL	5.0	12.1	9.8	NC	91.3			93.4			90 - 110	20
Nitrate as Nitrogen	BRL	0.05	0.20	0.20	NC	102			101			90 - 110	20
Sulfate	BRL	5.0	4.0	<5.0	NC	92.6			94.1			90 - 110	20

Environmental Laboratories, Inc.
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NY # 11301

QA/QC Report

January 21, 2025

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 766961 (ng/L), QC Sample No: CS40379 (CS40379, CS40380, CS40381, CS40382, CS40385)											
PFOA & PFOS											
11Cl-PF3OUdS	ND	7.56	224	180					50 - 150		I
3:3FTCA	ND	5.00	51.5	50.2					50 - 150		
4:2FTS	ND	7.50	103	105					50 - 150		
5:3FTCA	ND	25.0	71.4	65.0					50 - 150		
6:2FTS	ND	7.60	92.3	93.2					50 - 150		
7:3FTCA	ND	25.0	79.2	73.0					50 - 150		
8:2FTS	ND	7.68	98.4	90.2					50 - 150		
9Cl-PF3ONS	ND	7.48	228	213					50 - 150		I
ADONA	ND	7.56	273	244					50 - 150		I
FOSA	ND	2.00	101	95.6					50 - 150		
HFPO-DA	ND	8.00	122	159					50 - 150		I
NEtFOSA	ND	2.00	62.6	63.9					50 - 150		
NEtFOSAA	ND	2.00	103	111					50 - 150		
NEtFOSE	ND	20.0	91.2	102					50 - 150		
NFDHA	ND	4.00	91.5	71.3					50 - 150		
NMeFOSA	ND	2.00	96.4	124					50 - 150		
NMeFOSAA	ND	2.00	105	99.1					50 - 150		
NMeFOSE	ND	20.0	107	121					50 - 150		
PFBA	ND	8.00	85.0	85.5					50 - 150		
PFBS	ND	1.77	105	105					50 - 150		
PFDA	ND	2.00	92.8	101					50 - 150		
PFDoA	ND	2.00	99.0	96.2					50 - 150		
PFDoDS	ND	1.94	83.3	72.3					50 - 150		
PFDS	ND	1.93	103	90.1					50 - 150		
PFEESA	ND	3.56	77.5	73.8					50 - 150		
PFHpA	ND	2.00	87.5	93.7					50 - 150		
PFHpS	ND	1.91	83.1	85.7					50 - 150		
PFHxA	ND	2.00	97.5	102					50 - 150		
PFHxS	ND	1.83	95.5	120					50 - 150		
PFMBA	ND	4.00	148	110					50 - 150		
PFMPA	ND	4.00	18.3	17.0					50 - 150		I
PFNA	ND	2.00	109	76.2					50 - 150		
PFNS	ND	1.92	116	110					50 - 150		
PFOA	ND	2.00	90.8	85.0					50 - 150		
PFOS	ND	1.86	83.4	80.9					50 - 150		
PFPeA	ND	4.00	111	97.8					50 - 150		
PFPeS	ND	1.88	97.6	112					50 - 150		
PFTA	ND	2.00	93.4	96.7					50 - 150		
PFTrDA	ND	2.00	124	151					50 - 150		I
PFUnA	ND	2.00	100	96.7					50 - 150		
% d3-N-MeFOSAA	98.9		101	93.0					25 - 150		

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% d5-N-EtFOSAA	110		117	103					25 - 150		
% M2-4:2 FTS	32.6		38.9	28.5					25 - 150		
% M2-6:2 FTS	33.0		43.9	30.3					25 - 200		
% M2-8:2 FTS	46.8		60.9	44.1					25 - 200		
% M2PFTEDA	70.4		84.5	71.3					10 - 150		
% M3HFPO-DA	50.9		47.1	49.6					25 - 150		
% M3PFBS	130		128	114					25 - 150		
% M3PFHxS	125		145	120					25 - 150		
% M4PFHpA	122		124	117					25 - 150		
% M5PFHxA	115		111	112					25 - 150		
% M5PFPEA	77.3		62.2	90.8					25 - 150		
% M6PFDA	93.6		113	105					25 - 150		
% M7PFUDA	113		123	112					25 - 150		
% M8FOSA	105		104	101					10 - 150		
% M8PFOA	114		118	124					25 - 150		
% M8PFOS	111		113	109					25 - 150		
% M9PFNA	116		101	127					25 - 150		
% MPFBA	3.05		2.23	3.29					25 - 150		l,s
% MPFDOA	101		108	116					25 - 150		
Comment:											
LCS/LCSD are spiked per method at different levels, no RPD is provided.											
QA/QC Batch 765911 (ug/l), QC Sample No: CS40723 (CS40379, CS40380, CS40381, CS40382)											
1,4dioxane - Ground Water											
1,4-dioxane (ISO)	ND	0.20	115	113	1.8				70 - 130	20	
% 1,4-dioxane-d8 (ISO)	85	%	71	89	22.5				70 - 130	20	r
QA/QC Batch 765517 (ug/L), QC Sample No: CS39537 (CS40381, CS40382)											
Polychlorinated Biphenyls - Ground Water											
PCB-1016	ND	0.050	84	87	3.5	87	95	8.8	40 - 140	20	
PCB-1221	ND	0.050							40 - 140	20	
PCB-1232	ND	0.050							40 - 140	20	
PCB-1242	ND	0.050							40 - 140	20	
PCB-1248	ND	0.050							40 - 140	20	
PCB-1254	ND	0.050							40 - 140	20	
PCB-1260	ND	0.050	94	95	1.1	96	104	8.0	40 - 140	20	
PCB-1262	ND	0.050							40 - 140	20	
PCB-1268	ND	0.050							40 - 140	20	
% DCBP (Surrogate Rec)	51	%	91	84	8.0	95	90	5.4	30 - 150	20	
% DCBP (Surrogate Rec) (Confirm	47	%	82	74	10.3	85	77	9.9	30 - 150	20	
% TCMX (Surrogate Rec)	62	%	69	66	4.4	74	78	5.3	30 - 150	20	
% TCMX (Surrogate Rec) (Confirm	65	%	69	65	6.0	78	78	0.0	30 - 150	20	
QA/QC Batch 765951 (ug/L), QC Sample No: CS40379 (CS40379, CS40380)											
Polychlorinated Biphenyls - Ground Water											
PCB-1016	ND	0.050	87	81	7.1				40 - 140	20	
PCB-1221	ND	0.050							40 - 140	20	
PCB-1232	ND	0.050							40 - 140	20	
PCB-1242	ND	0.050							40 - 140	20	
PCB-1248	ND	0.050							40 - 140	20	
PCB-1254	ND	0.050							40 - 140	20	
PCB-1260	ND	0.050	90	84	6.9				40 - 140	20	
PCB-1262	ND	0.050							40 - 140	20	
PCB-1268	ND	0.050							40 - 140	20	

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% DCBP (Surrogate Rec)	90	%		90	81	10.5				30 - 150	20	
% DCBP (Surrogate Rec) (Confirm	86	%		83	80	3.7				30 - 150	20	
% TCMX (Surrogate Rec)	72	%		80	91	12.9				30 - 150	20	
% TCMX (Surrogate Rec) (Confirm	73	%		81	84	3.6				30 - 150	20	

Comment:

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

QA/QC Batch 765550 (ug/L), QC Sample No: CS40379 (CS40380, CS40381, CS40382)

Pesticides - Ground Water

4,4' -DDD	ND	0.003		67	81	18.9				40 - 140	20	
4,4' -DDE	ND	0.003		75	90	18.2				40 - 140	20	
4,4' -DDT	ND	0.003		70	85	19.4				40 - 140	20	
a-BHC	ND	0.002		66	81	20.4				40 - 140	20	
a-Chlordane	ND	0.005		64	80	22.2				40 - 140	20	r
Alachlor	ND	0.005		NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002		54	64	16.9				40 - 140	20	
b-BHC	ND	0.002		68	82	18.7				40 - 140	20	
Chlordane	ND	0.050		63	70	10.5				40 - 140	20	
d-BHC	ND	0.005		52	57	9.2				40 - 140	20	
Dieldrin	ND	0.002		72	85	16.6				40 - 140	20	
Endosulfan I	ND	0.005		63	68	7.6				40 - 140	20	
Endosulfan II	ND	0.005		75	92	20.4				40 - 140	20	
Endosulfan sulfate	ND	0.005		62	74	17.6				40 - 140	20	
Endrin	ND	0.005		71	83	15.6				40 - 140	20	
Endrin aldehyde	ND	0.005		64	78	19.7				40 - 140	20	
Endrin ketone	ND	0.005		79	100	23.5				40 - 140	20	r
g-BHC	ND	0.002		66	80	19.2				40 - 140	20	
g-Chlordane	ND	0.005		63	70	10.5				40 - 140	20	
Heptachlor	ND	0.005		64	77	18.4				40 - 140	20	
Heptachlor epoxide	ND	0.005		68	80	16.2				40 - 140	20	
Methoxychlor	ND	0.005		69	77	11.0				40 - 140	20	
Toxaphene	ND	0.20		NA	NA	NC				40 - 140	20	
% DCBP	83	%		63	74	16.1				30 - 150	20	
% DCBP (Confirmation)	85	%		50	56	11.3				30 - 150	20	
% TCMX	73	%		55	66	18.2				30 - 150	20	
% TCMX (Confirmation)	71	%		56	65	14.9				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 765952 (ug/L), QC Sample No: CS40379 (CS40379)

Pesticides - Ground Water

4,4' -DDD	ND	0.003		67	81	18.9				40 - 140	20	
4,4' -DDE	ND	0.003		75	90	18.2				40 - 140	20	
4,4' -DDT	ND	0.003		70	85	19.4				40 - 140	20	
a-BHC	ND	0.002		66	81	20.4				40 - 140	20	
a-Chlordane	ND	0.005		64	80	22.2				40 - 140	20	r
Alachlor	ND	0.005		NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002		54	64	16.9				40 - 140	20	
b-BHC	ND	0.002		68	82	18.7				40 - 140	20	
Chlordane	ND	0.050		63	70	10.5				40 - 140	20	
d-BHC	ND	0.005		52	57	9.2				40 - 140	20	
Dieldrin	ND	0.002		72	85	16.6				40 - 140	20	
Endosulfan I	ND	0.005		63	68	7.6				40 - 140	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Endosulfan II	ND	0.005	75	92	20.4				40 - 140	20	
Endosulfan sulfate	ND	0.005	62	74	17.6				40 - 140	20	
Endrin	ND	0.005	71	83	15.6				40 - 140	20	
Endrin aldehyde	ND	0.005	64	78	19.7				40 - 140	20	
Endrin ketone	ND	0.005	79	100	23.5				40 - 140	20	r
g-BHC	ND	0.002	66	80	19.2				40 - 140	20	
g-Chlordane	ND	0.005	63	70	10.5				40 - 140	20	
Heptachlor	ND	0.005	64	77	18.4				40 - 140	20	
Heptachlor epoxide	ND	0.005	68	80	16.2				40 - 140	20	
Methoxychlor	ND	0.005	69	77	11.0				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	83	%	63	74	16.1				30 - 150	20	
% DCBP (Confirmation)	85	%	50	56	11.3				30 - 150	20	
% TCMX	73	%	55	66	18.2				30 - 150	20	
% TCMX (Confirmation)	71	%	56	65	14.9				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 765561 (ug/L), QC Sample No: CS40379 (CS40379, CS40380, CS40381, CS40382)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	88	86	2.3				30 - 130	20	
1,2,4-Trichlorobenzene	ND	3.5	85	84	1.2				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	78	78	0.0				30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	85	82	3.6				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	75	76	1.3				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	74	75	1.3				30 - 130	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	70	67	4.4				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	103	101	2.0				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	107	103	3.8				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	102	100	2.0				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	103	96	7.0				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	100	102	2.0				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	105	102	2.9				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	102	99	3.0				30 - 130	20	
2-Chloronaphthalene	ND	3.5	89	88	1.1				30 - 130	20	
2-Chlorophenol	ND	1.0	86	82	4.8				30 - 130	20	
2-Methylnaphthalene	ND	3.5	91	88	3.4				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	85	81	4.8				30 - 130	20	
2-Nitroaniline	ND	3.5	138	134	2.9				30 - 130	20	l
2-Nitrophenol	ND	1.0	95	94	1.1				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	94	87	7.7				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	79	74	6.5				30 - 130	20	
3-Nitroaniline	ND	5.0	103	92	11.3				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	109	106	2.8				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	95	93	2.1				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	108	103	4.7				30 - 130	20	
4-Chloroaniline	ND	3.5	75	67	11.3				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	91	89	2.2				30 - 130	20	
4-Nitroaniline	ND	5.0	103	101	2.0				30 - 130	20	
4-Nitrophenol	ND	1.0	120	118	1.7				30 - 130	20	
Acenaphthene	ND	1.5	90	88	2.2				30 - 130	20	
Acetophenone	ND	3.5	79	76	3.9				30 - 130	20	

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Aniline	ND	3.5	67	57	16.1				30 - 130	20
Anthracene	ND	1.5	90	88	2.2				30 - 130	20
Benzidine	ND	4.5	73	63	14.7				30 - 130	20
Benzoic acid	ND	10	81	86	6.0				30 - 130	20
Benzyl butyl phthalate	ND	1.5	102	98	4.0				30 - 130	20
Bis(2-chloroethoxy)methane	ND	3.5	89	86	3.4				30 - 130	20
Bis(2-chloroethyl)ether	ND	1.0	78	76	2.6				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	1.5	99	96	3.1				30 - 130	20
Carbazole	ND	5.0	98	95	3.1				30 - 130	20
Dibenzofuran	ND	3.5	92	91	1.1				30 - 130	20
Diethyl phthalate	ND	5.0	101	98	3.0				30 - 130	20
Dimethylphthalate	ND	1.5	97	95	2.1				30 - 130	20
Di-n-butylphthalate	ND	1.5	97	95	2.1				30 - 130	20
Di-n-octylphthalate	ND	1.5	103	98	5.0				30 - 130	20
Fluoranthene	ND	1.5	97	95	2.1				30 - 130	20
Fluorene	ND	1.5	91	91	0.0				30 - 130	20
Hexachloroethane	ND	3.5	74	75	1.3				30 - 130	20
Isophorone	ND	3.5	82	80	2.5				30 - 130	20
Naphthalene	ND	1.5	80	80	0.0				30 - 130	20
N-Nitrosodi-n-propylamine	ND	3.5	79	74	6.5				30 - 130	20
N-Nitrosodiphenylamine	ND	3.5	88	85	3.5				30 - 130	20
Pentachloronitrobenzene	ND	5.0	96	92	4.3				30 - 130	20
Phenol	ND	1.0	87	81	7.1				30 - 130	20
Pyrene	ND	1.5	95	94	1.1				30 - 130	20
Pyridine	ND	5.0	53	51	3.8				30 - 130	20
% 2,4,6-Tribromophenol	78	%	95	91	4.3				15 - 110	20
% 2-Fluorobiphenyl	79	%	85	85	0.0				30 - 130	20
% 2-Fluorophenol	62	%	73	69	5.6				15 - 110	20
% Nitrobenzene-d5	71	%	82	78	5.0				30 - 130	20
% Phenol-d5	67	%	79	75	5.2				15 - 110	20
% Terphenyl-d14	85	%	93	91	2.2				30 - 130	20

Comment:

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

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

QA/QC Batch 765561 (ug/L), QC Sample No: CS40379 (CS40379, CS40380, CS40381, CS40382)

Semivolatiles (SIM) - Ground Water

Acenaphthylene	ND	0.50	73	67	8.6				30 - 130	20
Benz(a)anthracene	ND	0.50	79	75	5.2				30 - 130	20
Benzo(a)pyrene	ND	0.50	78	75	3.9				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	101	99	2.0				30 - 130	20
Benzo(ghi)perylene	ND	0.50	77	73	5.3				30 - 130	20
Benzo(k)fluoranthene	ND	0.50	85	81	4.8				30 - 130	20
Chrysene	ND	0.50	79	76	3.9				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	82	77	6.3				30 - 130	20
Hexachlorobenzene	ND	0.50	82	80	2.5				30 - 130	20
Hexachlorobutadiene	ND	0.50	67	65	3.0				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50	39	36	8.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	79	75	5.2				30 - 130	20
Nitrobenzene	ND	0.50	74	73	1.4				30 - 130	20
N-Nitrosodimethylamine	ND	0.05	69	68	1.5				30 - 130	20
Pentachlorophenol	ND	0.50	92	91	1.1				30 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenanthrene	ND	0.50	80	76	5.1				30 - 130	20
% 2,4,6-Tribromophenol	78	%	85	82	3.6				15 - 110	20
% 2-Fluorobiphenyl	73	%	73	69	5.6				30 - 130	20
% 2-Fluorophenol	61	%	63	60	4.9				15 - 110	20
% Nitrobenzene-d5	75	%	71	70	1.4				30 - 130	20
% Phenol-d5	76	%	78	75	3.9				15 - 110	20
% Terphenyl-d14	84	%	80	78	2.5				30 - 130	20

Comment:

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

QA/QC Batch 765925 (ug/L), QC Sample No: CS40482 (CS40379, CS40380 (2X))

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	5.0	116	113	2.6	109	113	3.6	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	92	88	4.4	100	103	3.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	5.0	97	95	2.1	101	102	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	103	101	2.0	108	113	4.5	70 - 130	30
1,1-Dichloroethane	ND	5.0	90	85	5.7	98	98	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	94	91	3.2	107	108	0.9	70 - 130	30
1,1-Dichloropropene	ND	5.0	95	92	3.2	103	106	2.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	115	113	1.8	103	107	3.8	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	97	96	1.0	100	102	2.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	120	117	2.5	106	110	3.7	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	100	2.0	109	109	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	124	121	2.4	115	126	9.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	107	103	3.8	111	112	0.9	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	104	102	1.9	96	98	2.1	70 - 130	30
1,2-Dichloroethane	ND	0.60	93	92	1.1	99	101	2.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	96	94	2.1	103	105	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	101	98	3.0	98	98	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	108	104	3.8	99	99	0.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	101	97	4.0	105	106	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	103	100	3.0	95	95	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	92	87	5.6	93	95	2.1	70 - 130	30
2-Chlorotoluene	ND	5.0	103	102	1.0	97	98	1.0	70 - 130	30
2-Hexanone	ND	5.0	91	88	3.4	108	112	3.6	70 - 130	30
2-Isopropyltoluene	ND	5.0	105	102	2.9	98	98	0.0	70 - 130	30
4-Chlorotoluene	ND	5.0	103	102	1.0	96	96	0.0	70 - 130	30
4-Methyl-2-pentanone	ND	5.0	88	86	2.3	103	106	2.9	70 - 130	30
Acetone	ND	10	84	80	4.9	91	99	8.4	70 - 130	30
Acrylonitrile	ND	5.0	84	83	1.2	92	93	1.1	70 - 130	30
Benzene	ND	0.70	99	95	4.1	106	107	0.9	70 - 130	30
Bromobenzene	ND	5.0	106	105	0.9	103	104	1.0	70 - 130	30
Bromochloromethane	ND	5.0	99	96	3.1	105	106	0.9	70 - 130	30
Bromodichloromethane	ND	5.0	101	100	1.0	102	107	4.8	70 - 130	30
Bromoform	ND	5.0	130	127	2.3	115	129	11.5	70 - 130	30
Bromomethane	ND	5.0	111	106	4.6	95	111	15.5	70 - 130	30
Carbon Disulfide	ND	5.0	95	90	5.4	105	107	1.9	70 - 130	30
Carbon tetrachloride	ND	5.0	101	93	8.2	100	104	3.9	70 - 130	30
Chlorobenzene	ND	1.0	106	102	3.8	107	107	0.0	70 - 130	30
Chloroethane	ND	5.0	100	92	8.3	112	111	0.9	70 - 130	30
Chloroform	ND	5.0	92	89	3.3	99	101	2.0	70 - 130	30
Chloromethane	ND	5.0	91	86	5.6	105	104	1.0	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	98	94	4.2	101	106	4.8	70 - 130	30

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	5.0	103	98	5.0	102	105	2.9	70 - 130	30
Dibromochloromethane	ND	5.0	119	115	3.4	115	118	2.6	70 - 130	30
Dibromomethane	ND	5.0	103	100	3.0	107	110	2.8	70 - 130	30
Dichlorodifluoromethane	ND	5.0	92	87	5.6	106	110	3.7	70 - 130	30
Ethylbenzene	ND	1.0	106	102	3.8	122	123	0.8	70 - 130	30
Hexachlorobutadiene	ND	5.0	117	114	2.6	110	115	4.4	70 - 130	30
Isopropylbenzene	ND	1.0	105	101	3.9	101	101	0.0	70 - 130	30
m&p-Xylene	ND	1.0	104	101	2.9	108	109	0.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	76	76	0.0	87	90	3.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	97	13.2	93	94	1.1	70 - 130	30
Methylene chloride	ND	5.0	94	89	5.5	102	102	0.0	70 - 130	30
Naphthalene	ND	1.0	109	108	0.9	NR	NR	NC	70 - 130	30
n-Butylbenzene	ND	1.0	103	99	4.0	96	96	0.0	70 - 130	30
n-Propylbenzene	ND	1.0	103	101	2.0	99	100	1.0	70 - 130	30
o-Xylene	ND	1.0	107	104	2.8	114	114	0.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	105	102	2.9	101	100	1.0	70 - 130	30
sec-Butylbenzene	ND	1.0	100	97	3.0	95	95	0.0	70 - 130	30
Styrene	ND	1.0	108	105	2.8	109	107	1.9	70 - 130	30
tert-Butylbenzene	ND	1.0	103	99	4.0	97	98	1.0	70 - 130	30
Tetrachloroethene	ND	1.0	110	104	5.6	108	110	1.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	81	78	3.8	86	90	4.5	70 - 130	30
Toluene	ND	1.0	102	99	3.0	110	111	0.9	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	98	96	2.1	108	109	0.9	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	102	99	3.0	102	107	4.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	101	2.0	93	100	7.3	70 - 130	30
Trichloroethene	ND	5.0	107	103	3.8	112	115	2.6	70 - 130	30
Trichlorofluoromethane	ND	5.0	90	87	3.4	102	105	2.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	98	93	5.2	103	106	2.9	70 - 130	30
Vinyl chloride	ND	5.0	91	87	4.5	112	112	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	98	99	1.0	98	100	2.0	70 - 130	30
% Bromofluorobenzene	95	%	97	98	1.0	99	98	1.0	70 - 130	30
% Dibromofluoromethane	99	%	98	103	5.0	99	102	3.0	70 - 130	30
% Toluene-d8	100	%	101	101	0.0	101	101	0.0	70 - 130	30
QA/QC Batch 765872 (ug/L), QC Sample No: CS40816 (CS40381, CS40382, CS40383, CS40384)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	5.0	113	112	0.9				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	89	89	0.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	5.0	98	95	3.1				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	101	101	0.0				70 - 130	30
1,1-Dichloroethane	ND	5.0	88	86	2.3				70 - 130	30
1,1-Dichloroethene	ND	5.0	89	89	0.0				70 - 130	30
1,1-Dichloropropene	ND	5.0	91	90	1.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	113	110	2.7				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	98	93	5.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	118	115	2.6				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	101	98	3.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	127	120	5.7				70 - 130	30
1,2-Dibromoethane	ND	5.0	106	105	0.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	101	98	3.0				70 - 130	30
1,2-Dichloroethane	ND	0.60	92	91	1.1				70 - 130	30
1,2-Dichloropropane	ND	5.0	95	93	2.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	99	96	3.1				70 - 130	30

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3-Dichlorobenzene	ND	1.0	105	102	2.9				70 - 130	30
1,3-Dichloropropane	ND	5.0	98	98	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	101	99	2.0				70 - 130	30
2,2-Dichloropropane	ND	5.0	90	88	2.2				70 - 130	30
2-Chlorotoluene	ND	5.0	102	98	4.0				70 - 130	30
2-Hexanone	ND	5.0	93	90	3.3				70 - 130	30
2-Isopropyltoluene	ND	5.0	103	99	4.0				70 - 130	30
4-Chlorotoluene	ND	5.0	102	99	3.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	87	88	1.1				70 - 130	30
Acetone	ND	10	85	82	3.6				70 - 130	30
Acrylonitrile	ND	5.0	87	86	1.2				70 - 130	30
Benzene	ND	0.70	95	94	1.1				70 - 130	30
Bromobenzene	ND	5.0	105	102	2.9				70 - 130	30
Bromochloromethane	ND	5.0	96	96	0.0				70 - 130	30
Bromodichloromethane	ND	5.0	100	98	2.0				70 - 130	30
Bromoform	ND	5.0	132	130	1.5				70 - 130	30
Bromomethane	ND	5.0	106	103	2.9				70 - 130	30
Carbon Disulfide	ND	5.0	92	91	1.1				70 - 130	30
Carbon tetrachloride	ND	5.0	113	111	1.8				70 - 130	30
Chlorobenzene	ND	1.0	103	102	1.0				70 - 130	30
Chloroethane	ND	5.0	95	94	1.1				70 - 130	30
Chloroform	ND	5.0	89	88	1.1				70 - 130	30
Chloromethane	ND	5.0	89	87	2.3				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	91	90	1.1				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	101	99	2.0				70 - 130	30
Dibromochloromethane	ND	5.0	117	117	0.0				70 - 130	30
Dibromomethane	ND	5.0	100	99	1.0				70 - 130	30
Dichlorodifluoromethane	ND	5.0	92	90	2.2				70 - 130	30
Ethylbenzene	ND	1.0	102	101	1.0				70 - 130	30
Hexachlorobutadiene	ND	5.0	113	108	4.5				70 - 130	30
Isopropylbenzene	ND	1.0	102	98	4.0				70 - 130	30
m&p-Xylene	ND	1.0	100	99	1.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	81	80	1.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	86	9.9				70 - 130	30
Methylene chloride	ND	5.0	90	90	0.0				70 - 130	30
Naphthalene	ND	1.0	109	106	2.8				70 - 130	30
n-Butylbenzene	ND	1.0	100	96	4.1				70 - 130	30
n-Propylbenzene	ND	1.0	102	98	4.0				70 - 130	30
o-Xylene	ND	1.0	104	105	1.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	103	98	5.0				70 - 130	30
sec-Butylbenzene	ND	1.0	98	93	5.2				70 - 130	30
Styrene	ND	1.0	105	104	1.0				70 - 130	30
tert-Butylbenzene	ND	1.0	100	96	4.1				70 - 130	30
Tetrachloroethene	ND	1.0	105	104	1.0				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	82	81	1.2				70 - 130	30
Toluene	ND	1.0	97	97	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	96	95	1.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	100	100	0.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	108	105	2.8				70 - 130	30
Trichloroethene	ND	5.0	102	102	0.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	88	87	1.1				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	94	93	1.1				70 - 130	30
Vinyl chloride	ND	5.0	89	88	1.1				70 - 130	30

QA/QC Data

SDG I.D.: GCS40379

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 1,2-dichlorobenzene-d4	97	%		99	98	1.0				70 - 130	30
% Bromofluorobenzene	96	%		99	98	1.0				70 - 130	30
% Dibromofluoromethane	98	%		100	101	1.0				70 - 130	30
% Toluene-d8	101	%		100	100	0.0				70 - 130	30

Comment:

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
January 21, 2025

Tuesday, January 21, 2025

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCS40379 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS40379	$8260WMDPR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	160	5.0	2	2	ug/L
CS40379	$8260WMDPR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	160	5.0	2	2	ug/L
CS40379	$8260WMDPR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	150	5.0	5	5	ug/L
CS40379	$8260WMDPR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
CS40379	$8260WMDPR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	ug/L
CS40379	$8260WMDPR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.7	0.04	0.04	ug/L
CS40379	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.03	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.03	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.03	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.02	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.03	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.03	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.02	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.03	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.03	0.02	0.002	0.002	ug/L
CS40379	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40379	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CS40379	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	11.0	0.020	0.1	0.1	mg/L
CS40379	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	2.46	0.001	0.3	0.3	mg/L
CS40379	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	77.0	1.1	20	20	mg/L
CS40379	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	67.5	0.010	0.3	0.3	mg/L
CS40379	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	2.94	0.001	0.3	0.3	mg/L
CS40379	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	82.8	1.0	20	20	mg/L
CS40379	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.164	0.001	0.025	0.025	mg/L
CS40379	SO4-IC	Sulfate	NY / TOGS - Water Quality / GA Criteria	757	125	250	250	mg/L
CS40380	$8260WMDPR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	2.1	2.0	2	2	ug/L
CS40380	$8260WMDPR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	2.1	2.0	2	2	ug/L
CS40380	$8260WMDPR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
CS40380	$8260WMDPR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	ug/L
CS40380	$8260WMDPR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.7	0.04	0.04	ug/L
CS40380	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.02	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.02	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40380	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L

Tuesday, January 21, 2025

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCS40379 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS40380	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40380	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CS40380	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	359	2.0	0.1	0.1	mg/L
CS40380	AS-WM	Arsenic	NY / TOGS - Water Quality / GA Criteria	0.146	0.004	0.025	0.025	mg/L
CS40380	BA-WM	Barium	NY / TOGS - Water Quality / GA Criteria	3.52	0.002	1	1	mg/L
CS40380	BE-WM	Beryllium	NY / TOGS - Water Quality / GA Criteria	0.018	0.001	0.003	0.003	mg/L
CS40380	CD-WM	Cadmium	NY / TOGS - Water Quality / GA Criteria	0.014	0.001	0.005	0.005	mg/L
CS40380	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.901	0.001	0.05	0.05	mg/L
CS40380	CU-WM	Copper	NY / TOGS - Water Quality / GA Criteria	0.882	0.005	0.2	0.2	mg/L
CS40380	D-MG	Magnesium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	110	0.11	35	35	mg/L
CS40380	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.33	0.001	0.3	0.3	mg/L
CS40380	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	664	11	20	20	mg/L
CS40380	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	1010	0.10	0.3	0.3	mg/L
CS40380	HG-WM	Mercury	NY / TOGS - Water Quality / GA Criteria	0.0112	0.0002	0.0007	0.0007	mg/L
CS40380	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	344	0.10	35	35	mg/L
CS40380	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	15.8	0.001	0.3	0.3	mg/L
CS40380	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	835	10	20	20	mg/L
CS40380	NI-WM	Nickel	NY / TOGS - Water Quality / GA Criteria	0.776	0.001	0.1	0.1	mg/L
CS40380	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	1.41	0.001	0.025	0.025	mg/L
CS40380	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	0.021	0.003	0.003	0.003	mg/L
CS40380	SO4-IC	Sulfate	NY / TOGS - Water Quality / GA Criteria	1250	125	250	250	mg/L
CS40380	TL-WM-MS	Thallium	NY / TOGS - Water Quality / GA Criteria	0.0041	0.0005	0.0005	0.0005	mg/L
CS40381	$8260WMDPR	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	16	5.0	2	2	ug/L
CS40381	$8260WMDPR	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	16	5.0	2	2	ug/L
CS40381	$8260WMDPR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	17	5.0	5	5	ug/L
CS40381	$8260WMDPR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
CS40381	$8260WMDPR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	ug/L
CS40381	$8260WMDPR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.7	0.04	0.04	ug/L
CS40381	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40381	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS40381	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CS40381	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.279	0.020	0.1	0.1	mg/L

Tuesday, January 21, 2025

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCS40379 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS40381	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.47	0.001	0.3	0.3	mg/L
CS40381	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	86.7	1.1	20	20	mg/L
CS40381	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	3.70	0.010	0.3	0.3	mg/L
CS40381	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	1.50	0.001	0.3	0.3	mg/L
CS40381	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	93.4	1.0	20	20	mg/L
CS40382	$8260WMDPR	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	42	5.0	5	5	ug/L
CS40382	$8260WMDPR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	1.8	0.70	0.7	0.7	ug/L
CS40382	$8260WMDPR	Benzene	NY / TOGS - Water Quality / GA Criteria	1.8	0.70	1	1	ug/L
CS40382	$8260WMDPR	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	19	5.0	5	5	ug/L
CS40382	$8260WMDPR	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	19	5.0	5	5	ug/L
CS40382	$8260WMDPR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
CS40382	$8260WMDPR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	150	5.0	5	5	ug/L
CS40382	$8260WMDPR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	150	5.0	5	5	ug/L
CS40382	$8260WMDPR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	ug/L
CS40382	$8260WMDPR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.7	0.04	0.04	ug/L
CS40382	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.05	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.04	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.06	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.06	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.05	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.07	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.07	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.04	0.02	0.002	0.002	ug/L
CS40382	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.06	0.02	0.002	0.002	ug/L
CS40382	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CS40382	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	87.7	0.020	0.1	0.1	mg/L
CS40382	AS-WM	Arsenic	NY / TOGS - Water Quality / GA Criteria	0.048	0.004	0.025	0.025	mg/L
CS40382	BE-WM	Beryllium	NY / TOGS - Water Quality / GA Criteria	0.007	0.001	0.003	0.003	mg/L
CS40382	CLD-IC	Chloride	NY / TOGS - Water Quality / GA Criteria	309	25.0	250	250	mg/L
CS40382	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.247	0.001	0.05	0.05	mg/L
CS40382	CU-WM	Copper	NY / TOGS - Water Quality / GA Criteria	0.240	0.005	0.2	0.2	mg/L
CS40382	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.47	0.001	0.3	0.3	mg/L
CS40382	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	200	1.1	20	20	mg/L
CS40382	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	221	0.10	0.3	0.3	mg/L
CS40382	HG-WM	Mercury	NY / TOGS - Water Quality / GA Criteria	0.0018	0.0002	0.0007	0.0007	mg/L
CS40382	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	59.2	0.010	35	35	mg/L
CS40382	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	4.63	0.001	0.3	0.3	mg/L
CS40382	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	211	1.0	20	20	mg/L
CS40382	NI-WM	Nickel	NY / TOGS - Water Quality / GA Criteria	0.224	0.001	0.1	0.1	mg/L

Tuesday, January 21, 2025

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCS40379 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS40382	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.457	0.001	0.025	0.025	mg/L
CS40382	TL-WM-MS	Thallium	NY / TOGS - Water Quality / GA Criteria	0.0008	0.0005	0.0005	0.0005	mg/L
CS40383	$8260WMDPR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
CS40383	$8260WMDPR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	ug/L
CS40383	$8260WMDPR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.7	0.04	0.04	ug/L
CS40384	$8260WMDPR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
CS40384	$8260WMDPR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.0	0.04	0.04	ug/L
CS40384	$8260WMDPR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.7	0.04	0.04	ug/L

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

January 21, 2025

SDG I.D.: GCS40379

The samples in this delivery group were received at 2.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Temp 2.1 °C Coolant: IPK ☒ ICE ☐ Cooler: Yes ☒ No ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Pg of

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: Touchstone Environmental
Address:
Project: 60 Gerry St.
Report to:
Invoice to:
QUOTE # :
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Date: 1/7/25

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	See attached VOCs + TICs + PFAS list	GL Amber 8 oz. [ ] w/H3PO4 [ ] NAHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NAOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is	PFAS plastic 300 ml.
40379	23MW-45	GW	1/7/25	12:15	X				3	3	1			1				2	
40380	23MW-40 *	GW		12:45	X				3	3	1			1				2	
40381	23MW-1 *	GW		16:00	X				3	3	1			1				2	
40382	23MW-2 *	GW		17:00	X				3	3	1			1				2	
40383	23MW-Trip Blank					X			2										
40384	Field Blank					X			2										
40385	PFAS Field Blank						X												1

Relinquished by:	Accepted by:	Date:	Time:
		1/8/25	0915
		1/8/25	15:20

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
☒ Standard
* SURCHARGE APPLIES

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

NY
☒ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? ☐

Comments, Special Requirements or Regulations:
* Methane/Ethane/Ethene
CO2 Vials not
Receive (AL)

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

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

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

60-66 Gilroy Street 40379

- VOCs via EPA Method 8260C,
- SVOCs via EPA Method 8270,
- Pesticides via EPA Method 8081,
- PCBs via EPA Method 8082,
- TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010,
- PFAS compounds via EPA Method 1633,
- 1,4-Dioxane via EPA Method 8270 SIM
- pH,
- Dissolved Oxygen (DO),
- Oxidation Reduction Potential (ORP),
- Total Fe, Dissolved Fe,
- Total Mn, Dissolved Mn,
- Sulfate,
- Sulfide,
- Nitrate,
- Total Organic Carbon (TOC),
- Alkalinity,
- Chloride,
- Methane,
- Ethane,
- Ethene
- CO2.

Andria Lachowicz

From: Andria Lachowicz
Sent: Wednesday, January 8, 2025 7:00 PM
To: Rachel Ataman
Cc: Lori Bailey; Sam Runyon
Subject: RE: 60 Gerry St.- vials needed

Okay, just to confirm, you would like us to remove the methane/ethane/ethene, CO2 and Dissolved Oxygen analyses?

From: Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Sent: Wednesday, January 8, 2025 6:50 PM
To: Andria Lachowicz <Andria@phoenixlabs.com>
Cc: Lori Bailey <lori@phoenixlabs.com>; Sam Runyon <samr@phoenixlabs.com>
Subject: Re: 60 Gerry St.- vials needed

We only need the vocs. We did the other stuff in the field.

Rachel Ataman, PG
Touchstone Environmental Geology, PC
President

Phone Office: 631-315-2734
Cell Phone: 631-672-3530
email: rachelataman@touchstoneenvironmental.com

1919 Middle Country Road
Suite 205
Centereach, New York 11720

Check out our New Website: touchstone-environmental.com

On Wed, Jan 8, 2025 at 6:40 PM Andria Lachowicz <Andria@phoenixlabs.com> wrote:

I apologize, it looks like we also did not receive the necessary dissolved oxygen bottles for the dissolved oxygen analysis.

We would also need this, as well as the vials, as stated in my previous email, in order to perform all requested analyses.

Thank you!

From: Andria Lachowicz
Sent: Wednesday, January 8, 2025 5:38 PM
To: rachelataman@touchstoneenvironmental.com
Cc: Lori Bailey <lori@phoenixlabs.com>
Subject: 60 Gerry St.- vials needed
Importance: High

Good evening,

For the attached chain of custody, we did not receive the necessary 20ml vials for the methane/ethane/ethene and CO2 analyses.

The only vials received are the 40ml HCL vials needed for the VOC analysis.

Would you still like these analyses ran and if so, how would you like to proceed?

Thank you!

Andria Lachowicz

Sample Receiving Technician

Phoenix Environmental Laboratories

587 East Middle Tpke.

Manchester, CT 06040

Andria@phoenixlabs.com

PH: 860-645-1102 ext. 365

FX: 860-645-0823

GCS 40379

Andria Lachowicz

From: Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Sent: Wednesday, January 8, 2025 8:04 PM
To: Andria Lachowicz
Cc: Lori Bailey; Sam Runyon
Subject: Re: 60 Gerry St.- vials needed

Yes

Rachel Ataman, PG
Touchstone Environmental Geology, PC
President

Phone Office: 631-315-2734
Cell Phone: 631-672-3530
email: rachelataman@touchstoneenvironmental.com

1919 Middle Country Road
Suite 205
Centereach, New York 11720

Check out our New Website: touchstone-environmental.com

On Wed, Jan 8, 2025 at 7:00 PM Andria Lachowicz <Andria@phoenixlabs.com> wrote:

Okay, just to confirm, you would like us to remove the methane/ethane/ethene, CO2 and Dissolved Oxygen analyses?

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To: Andria Lachowicz <Andria@phoenixlabs.com>
Cc: Lori Bailey <lori@phoenixlabs.com>; Sam Runyon <samr@phoenixlabs.com>
Subject: Re: 60 Gerry St.- vials needed

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email: rachelataman@touchstoneenvironmental.com

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Suite 205

Centereach, New York 11720

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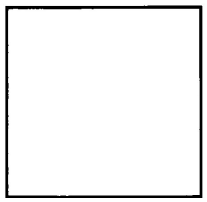

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Thank you!

From: Andria Lachowicz
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To: rachelataman@touchstoneenvironmental.com
Cc: Lori Bailey <lori@phoenixlabs.com>
Subject: 60 Gerry St.- vials needed
Importance: High

Good evening,

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The only vials received are the 40ml HCL vials needed for the VOC analysis.

Would you still like these analyses ran and if so, how would you like to proceed?

Thank you!

Andria Lachowicz

Sample Receiving Technician

Phoenix Environmental Laboratories

587 East Middle Tpke.

Manchester, CT 06040

Andria@phoenixlabs.com

PH: 860-645-1102 ext. 365

FX: 860-645-0823

Bobbi Aloisa

From: Bobbi Aloisa
Sent: Thursday, January 09, 2025 5:20 PM
To: Rachel Ataman; Bobbi Aloisa
Cc: Michael Lapman
Subject: TOC **no bottles received**
Attachments: GCS40379-ChainofCustody-1.pdf

Good afternoon Rachel ~

Happy New Year~

On the attached chain, we did not receive bottles for the TOC (Total organic Carbon) testing on any of the samples. We will not be able to run this test.

Please let me know if you have any questions 😊

Wishing you the best

Bobbi

Bobbi Aloisa
Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com

Temp 2.1 °C Coolant: Cooler: IPK Yes ICE No No

NY/NJ/PA CHAIN OF CUSTODY RECORD

Pg of

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: Touchstone Environmental
Address:
Project: 60 Gerry St.
Report to:
Invoice to:
QUOTE # :
Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Date: 1/7/25

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	Src Chlorinated VOCs EPA 8260D	PFAS EPA 537.1 Modified	GL Amber 8 oz. [ ] w/H3PO4 [ ] NaHSO4	Soil VOA Vials [ ] w/H3PO4 [ ] methanol [ ] H2O	GL Soil container ( ) oz.	GL Soil container ( ) oz.	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] HCl	PL As is [ ] H2SO4 [ ] 250ml	PL H2SO4 [ ] 500ml [ ] 1000ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is	
40379	23MW-45	GW	1/7/25	12:15		X						3	3	1			1			2
40380	23MW-40 *	GW		12:45		X						3	3	1			1			2
40381	23MW-1	GW		16:00		X						3	3	1			1			2
40382	23MW-2 *	GW		17:00		X						3	3	1			1			2
40383	23MW-Trip Blank						X					2								
40384	Field Blank						X					2								
40385	PFAS Field Blank		↓					X												1

PFAS plastic 500 ml.

Relinquished by:	Accepted by:	Date:	Time:
		1/8/25	0915
		1/8/25	15:22

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
☒ Standard
* SURCHARGE APPLIES

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

NY
☒ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? ☐

Comments, Special Requirements or Regulations:
* Methane/Ethane/Ethene
CO2 Vials not
Receive (AL)

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

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

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

- VOCs via EPA Method 8260C,
- SVOCs via EPA Method 8270,
- Pesticides via EPA Method 8081,
- PCBs via EPA Method 8082,
- TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010,
- PFAS compounds via EPA Method 1633,
- 1,4-Dioxane via EPA Method 8270 SIM
- pH,
- Dissolved Oxygen (DO),
- Oxidation Reduction Potential (ORP),
- Total Fe, Dissolved Fe,
- Total Mn, Dissolved Mn,
- Sulfate,
- Sulfide,
- Nitrate,
- Total Organic Carbon (TOC),
- Alkalinity,
- Chloride,
- Methane,
- Ethane,
- Ethene
- CO2.

60-66 China Street

40374

Andria Lachowicz

From: Andria Lachowicz
Sent: Wednesday, January 8, 2025 7:00 PM
To: Rachel Ataman
Cc: Lori Bailey; Sam Runyon
Subject: RE: 60 Gerry St.- vials needed

Okay, just to confirm, you would like us to remove the methane/ethane/ethene, CO2 and Dissolved Oxygen analyses?

From: Rachel Ataman <rachelataman@touchstoneenvironmental.com>
Sent: Wednesday, January 8, 2025 6:50 PM
To: Andria Lachowicz <Andria@phoenixlabs.com>
Cc: Lori Bailey <lori@phoenixlabs.com>; Sam Runyon <samr@phoenixlabs.com>
Subject: Re: 60 Gerry St.- vials needed

We only need the vocs. We did the other stuff in the field.

Rachel Ataman, PG
Touchstone Environmental Geology, PC
President

Phone Office: 631-315-2734
Cell Phone: 631-672-3530
email: rachelataman@touchstoneenvironmental.com

1919 Middle Country Road
Suite 205
Centereach, New York 11720

Check out our New Website: touchstone-environmental.com

On Wed, Jan 8, 2025 at 6:40 PM Andria Lachowicz <Andria@phoenixlabs.com> wrote:

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Thank you!

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To: rachelataman@touchstoneenvironmental.com
Cc: Lori Bailey <lori@phoenixlabs.com>
Subject: 60 Gerry St.- vials needed
Importance: High

Good evening,

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Would you still like these analyses ran and if so, how would you like to proceed?

Thank you!

Andria Lachowicz

Sample Receiving Technician

Phoenix Environmental Laboratories

587 East Middle Tpke.

Manchester, CT 06040

Andria@phoenixlabs.com

PH: 860-645-1102 ext. 365

FX: 860-645-0823

OCS40379

Tara Banning

From: Michael Lapman
Sent: Tuesday, January 14, 2025 2:01 PM
To: Tara Banning
Subject: Re: Touchstone Sulfide

No, do not run. Thank you!

Regards,
Michael Lapman
Sent from my iPhone

On Jan 14, 2025, at 1:59 PM, Tara Banning <tara@phoenixlabs.com> wrote:

Hello,

For the attached COC we did not receive a bottle to run the sulfide from. We can run it from the AS IS but just need confirmation the client would like it run this way. Samples go out of hold today, please let me know.

Thank you,

Tara Banning
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
860-645-1102
www.phoenixlabs.com
<image001.jpg>

<20250114135702.pdf>

Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 01/16/2025
Client Project ID: GCS40379
York Project (SDG) No.: 25A0556

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 01/16/2025
Client Project ID: GCS40379
York Project (SDG) No.: 25A0556

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 10, 2025 and listed below. The project was identified as your project: **GCS40379**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25A0556-01	23MW-4S	Water	01/07/2025	01/10/2025
25A0556-02	23MW-4D	Water	01/07/2025	01/10/2025
25A0556-03	23MW-1	Water	01/07/2025	01/10/2025
25A0556-04	23MW-2	Water	01/07/2025	01/10/2025
25A0556-05	PFAS FIELD BLANK	Water	01/07/2025	01/10/2025

General Notes for York Project (SDG) No.: 25A0556

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Date: 01/16/2025

Cassie L. Mosher
Laboratory Manager

[TOC_1]Sample Results[TOC]

Sample Information

[TOC_2]23MW-4S[TOC]

Client Sample ID: 23MW-4S

York Sample ID: 25A0556-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 12:15 pm	01/10/2025

[TOC_3]PFAS Target compounds by LC/MS-MS[TOC]

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**4.64**		ng/L	0.503	1.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**13.5**		ng/L	0.374	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**7.22**		ng/L	0.759	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.54**		ng/L	0.727	1.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**17.3**		ng/L	0.449	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.917**	J	ng/L	0.877	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.556	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.802	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.21	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.941	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.791	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.738	2.14	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.845	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.10	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**13.8**		ng/L	0.246	4.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.941	2.14	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.973	2.04	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.41	2.06	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	8.02	8.13	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.19	8.21	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**14.3**		ng/L	0.353	8.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.535	3.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:21	AM

Sample Information

Client Sample ID: 23MW-4S **York Sample ID:** 25A0556-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 12:15 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.29	4.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:21	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.267	4.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:21	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.396	4.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:21	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.813	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.91	8.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.45	8.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.48	8.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.749	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
919005-14-4	ADONA	ND		ng/L	0.567	8.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.995	2.07	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.920	2.05	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:21	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.17	5.35	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.84	26.7	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	10.1	26.7	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.27	21.4	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.69	2.14	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.27	21.4	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.93	2.14	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:21	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*141 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*121 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*117 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*127 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*119 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*107 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*95.6 %*	*25-150*

Sample Information

Client Sample ID: 23MW-4S **York Sample ID:** 25A0556-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 12:15 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*68.5 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*34.0 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*69.0 %*			*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*114 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*131 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*113 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*86.0 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*94.2 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*34.5 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*42.0 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*127 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*38.7 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*41.0 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*25.1 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*58.1 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*60.7 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*95.9 %*			*25-150*						

Sample Information

[TOC_2]23MW-4D[TOC]

Client Sample ID: 23MW-4D **York Sample ID:** 25A0556-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 2:45 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**1.24**	J	ng/L	0.488	1.84	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:37	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**8.46**		ng/L	0.364	2.08	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:37	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**4.71**		ng/L	0.738	2.08	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:37	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.84**	J	ng/L	0.707	1.90	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:37	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: 23MW-4D **York Sample ID:** 25A0556-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 2:45 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	**Perfluorooctanoic acid (PFOA)**	**8.79**		ng/L	0.436	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.852	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.540	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.779	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.17	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.915	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.769	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.717	2.08	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.821	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.07	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**7.60**		ng/L	0.239	4.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.915	2.08	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.946	1.99	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.37	2.01	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
27619-97-2	**1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**12.6**		ng/L	7.79	7.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.13	7.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.343	8.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.520	3.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:37	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.22	4.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:37	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.260	4.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:37	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.385	4.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:37	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.790	1.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.86	7.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM

Sample Information

Client Sample ID: 23MW-4D **York Sample ID:** 25A0556-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 2:45 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.36	8.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.43	7.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.727	7.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
919005-14-4	ADONA	ND		ng/L	0.551	7.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.967	2.02	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.894	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:37	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.11	5.20	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.62	26.0	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.84	26.0	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.15	20.8	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.64	2.08	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.15	20.8	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.87	2.08	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:37	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*145 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*103 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*102 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*116 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*120 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*78.3 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*65.3 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*37.5 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*16.6 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*32.3 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*86.4 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*108 %*	*25-150*

Sample Information

Client Sample ID: 23MW-4D **York Sample ID:** 25A0556-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 2:45 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*73.0 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*56.2 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*52.3 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*34.7 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*32.2 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*94.8 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*35.6 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*15.6 %*	PFSu-L		*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*14.5 %*	PFSu-L		*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*56.2 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*30.9 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*45.5 %*			*25-150*						

Sample Information

[TOC_2]23MW-1[TOC]

Client Sample ID: 23MW-1 **York Sample ID:** 25A0556-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 4:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.61**		ng/L	0.476	1.79	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**12.0**		ng/L	0.354	2.02	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**8.30**		ng/L	0.719	2.02	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.27**		ng/L	0.688	1.85	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-67-1	**Perfluorooctanoic acid (PFOA)**	**27.1**		ng/L	0.425	2.02	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**2.29**		ng/L	0.830	1.88	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.723**	J	ng/L	0.526	2.02	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.759	2.02	1	EPA 1633 Draft 3	01/13/2025 12:30	01/15/2025 20:53	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: 23MW-1 **York Sample ID:** 25A0556-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 4:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.14	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.891	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.749	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.698	2.02	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.800	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.04	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**12.0**		ng/L	0.233	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.891	2.02	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.921	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.34	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.59	7.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.07	7.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**14.5**		ng/L	0.334	8.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.506	3.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:53	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.17	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:53	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.253	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:53	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.374	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 20:53	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.769	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.81	7.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.27	8.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.40	7.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.709	7.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
919005-14-4	ADONA	ND		ng/L	0.536	7.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM

Sample Information

Client Sample ID: 23MW-1 **York Sample ID:** 25A0556-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 4:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.941	1.96	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.870	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 20:53	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.05	5.06	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.42	25.3	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.59	25.3	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.04	20.2	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.60	2.02	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.04	20.2	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.82	2.02	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 20:53	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*135 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*111 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*117 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*129 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*119 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*121 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*112 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*86.3 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*66.8 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*38.9 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*116 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*116 %*	*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*88.1 %*	*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*82.3 %*	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*92.9 %*	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*52.9 %*	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*44.5 %*	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*122 %*	*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*101 %*	*25-150*

Sample Information

Client Sample ID: 23MW-1 **York Sample ID:** 25A0556-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 4:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
936109-37-4	*Surrogate: d-N-MeFOSA*	*48.1 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*41.7 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*57.5 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*98.7 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*122 %*			*25-150*						

Sample Information

[TOC_2]23MW-2[TOC]

Client Sample ID: 23MW-2 **York Sample ID:** 25A0556-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 5:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**4.27**		ng/L	0.417	1.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**15.0**		ng/L	0.310	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**8.92**		ng/L	0.629	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.84**		ng/L	0.603	1.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**24.3**		ng/L	0.372	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**19.3**		ng/L	0.727	1.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**2.24**		ng/L	0.461	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.665	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.00	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.780	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.656	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.611	1.77	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.700	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM

Sample Information

Client Sample ID: 23MW-2 **York Sample ID:** 25A0556-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 5:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	N-EtFOSAA	ND		ng/L	0.913	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**16.9**		ng/L	0.204	3.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.780	1.77	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.806	1.69	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.17	1.71	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.65	6.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.82	6.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**18.7**		ng/L	0.292	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.443	3.15	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:09	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.90	3.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:09	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.222	3.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:09	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.328	3.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:09	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.674	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.59	6.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.86	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.22	6.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.620	6.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
919005-14-4	ADONA	ND		ng/L	0.470	6.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.824	1.72	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.762	1.70	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:09	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.80	4.43	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.50	22.2	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.39	22.2	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM

Sample Information

Client Sample ID: 23MW-2 **York Sample ID:** 25A0556-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 5:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ng/L	3.54	17.7	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.40	1.77	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.54	17.7	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.60	1.77	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:09	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*125 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*128 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*108 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*127 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*134 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*104 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*88.5 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*49.5 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*20.9 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*40.3 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*123 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*118 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*94.8 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*69.5 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*70.8 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*50.8 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*39.6 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*118 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*108 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*20.6 %*	PFSu-L	*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*18.3 %*	PFSu-L	*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*62.8 %*		*25-150*
D9-NETPFOSA1	*Surrogate: d9-N-EtFOSE*	*33.9 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*46.3 %*		*25-150*

Sample Information

[OC_2]PFAS FIELD BLANK[TOC]

Client Sample ID: PFAS FIELD BLANK **York Sample ID:** 25A0556-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 3:00 pm	01/10/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.443	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.330	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.669	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.641	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.396	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.772	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.490	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.706	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.06	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.829	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.697	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.650	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.744	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.970	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.217	3.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.829	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.857	1.80	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.24	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.06	7.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.93	7.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.311	7.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.471	3.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:25	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.02	3.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:25	AM

Sample Information

Client Sample ID: PFAS FIELD BLANK **York Sample ID:** 25A0556-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 3:00 pm	01/10/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.235	3.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:25	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.349	3.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/13/2025 12:30	01/15/2025 21:25	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.716	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.69	7.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.04	7.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.30	7.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.659	7.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
919005-14-4	ADONA	ND		ng/L	0.499	7.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.876	1.83	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.810	1.81	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/13/2025 12:30	01/15/2025 21:25	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.91	4.71	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.90	23.5	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.92	23.5	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.76	18.8	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.49	1.88	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.76	18.8	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.70	1.88	1	EPA 1633 Draft 3 Certifications:	01/13/2025 12:30	01/15/2025 21:25	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*135 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*126 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*132 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*140 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*132 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*121 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*129 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*112 %*	*25-150*

Sample Information

Client Sample ID: PFAS FIELD BLANK **York Sample ID:** 25A0556-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0556	GCS40379	Water	January 7, 2025 3:00 pm	01/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C2PFTEDA	*Surrogate: M2PFTeDA*	*73.5 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*4.01 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*133 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*93.9 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*129 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*110 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*131 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*38.6 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*50.8 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*144 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*34.0 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*82.2 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*76.7 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*75.6 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*151 %*	PFSu-H		*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*186 %*	PFSu-H		*25-150*						

Analytical Batch Summary

_1]Quality Batch Summary[TOC]

Batch ID: BA50704 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

YORK Sample ID	Client Sample ID	Preparation Date
25A0556-01	23MW-4S	01/13/25
25A0556-02	23MW-4D	01/13/25
25A0556-03	23MW-1	01/13/25
25A0556-04	23MW-2	01/13/25
25A0556-05	PFAS FIELD BLANK	01/13/25
BA50704-BLK1	Blank	01/13/25
BA50704-BLK2	Blank	01/13/25
BA50704-BS1	LCS	01/13/25
BA50704-BS2	LCS	01/13/25

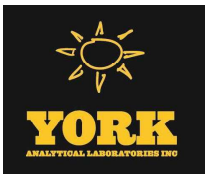
PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA50704 - EPA 1633 Prep											
Blank (BA50704-BLK1)									Prepared: 01/13/2025 Analyzed: 01/15/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*30.3*		*"*	*23.3*		*130*	*25-150*				
Surrogate: M5PFHxA	*28.8*		*"*	*25.0*		*115*	*25-150*				
Surrogate: M4PFHpA	*30.5*		*"*	*25.0*		*122*	*25-150*				
Surrogate: M3PFHxS	*29.6*		*"*	*23.7*		*125*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*28.4*		*"*	*25.0*		*114*	*25-150*				
Surrogate: M6PFDA	*11.7*		*"*	*12.5*		*93.6*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA50704 - EPA 1633 Prep											
Blank (BA50704-BLK1)									Prepared: 01/13/2025 Analyzed: 01/15/2025		
Surrogate: M7PFUdA	*14.1*		*ng/L*	*12.5*		*113*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.6*		*"*	*12.5*		*101*	*25-150*				
Surrogate: M2PFTeDA	*8.80*		*"*	*12.5*		*70.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.05*		*"*	*100*		*3.05*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*26.6*		*"*	*24.0*		*111*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*38.7*		*"*	*50.0*		*77.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*26.3*		*"*	*25.0*		*105*	*10-150*				
Surrogate: d3-N-MeFOSAA	*49.5*		*"*	*50.0*		*98.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*55.2*		*"*	*50.0*		*110*	*25-150*				
Surrogate: M2-6:2 FTS	*15.7*		*"*	*47.6*		*33.0*	*25-200*				
Surrogate: M2-8:2 FTS	*22.5*		*"*	*48.0*		*46.8*	*25-200*				
Surrogate: M9PFNA	*14.4*		*"*	*12.5*		*116*	*25-150*				
Surrogate: M2-4:2 FTS	*15.3*		*"*	*46.9*		*32.6*	*25-150*				
Surrogate: d-N-MeFOSA	*14.0*		*"*	*25.0*		*55.9*	*25-150*				
Surrogate: d-N-EtFOSA	*14.6*		*"*	*25.0*		*58.2*	*25-150*				
Surrogate: M3HFPO-DA	*50.9*		*"*	*100*		*50.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*306*		*"*	*250*		*123*	*25-150*				
Surrogate: d7-N-MeFOSE	*322*		*"*	*250*		*129*	*25-150*				
Blank (BA50704-BLK2)									Prepared: 01/13/2025 Analyzed: 01/15/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.69	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	1.91	"								
Perfluoroheptanoic acid (PFHpA)	ND	1.91	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.75	"								
Perfluorooctanoic acid (PFOA)	ND	1.91	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.78	"								
Perfluorononanoic acid (PFNA)	ND	1.91	"								
Perfluorodecanoic acid (PFDA)	ND	1.91	"								
Perfluoroundecanoic acid (PFUnA)	ND	1.91	"								
Perfluorododecanoic acid (PFDoA)	ND	1.91	"								
Perfluorotridecanoic acid (PFTrDA)	ND	1.91	"								
Perfluorotetradecanoic acid (PFTA)	ND	1.91	"								
N-MeFOSAA	ND	1.91	"								
N-EtFOSAA	ND	1.91	"								
Perfluoropentanoic acid (PFPeA)	ND	3.83	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.91	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.83	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.85	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.28	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.35	"								
Perfluoro-n-butanoic acid (PFBA)	ND	7.66	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.41	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.83	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.83	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	3.83	"								

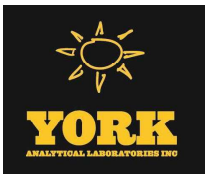
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA50704 - EPA 1633 Prep											
Blank (BA50704-BLK2)								Prepared: 01/13/2025 Analyzed: 01/15/2025			
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.80	ng/L								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.18	"								
HFPO-DA (Gen-X)	ND	7.66	"								
11CL-PF3OUdS	ND	7.24	"								
9CL-PF3ONS	ND	7.16	"								
ADONA	ND	7.24	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.86	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	4.79	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	23.9	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	23.9	"								
N-MeFOSE	ND	19.1	"								
N-MeFOSA	ND	1.91	"								
N-EtFOSE	ND	19.1	"								
N-EtFOSA	ND	1.91	"								
Surrogate: M3PFBS	*26.0*		"	*22.3*		*117*	*25-150*				
Surrogate: M5PFHxA	*27.1*		"	*23.9*		*113*	*25-150*				
Surrogate: M4PFHpA	*28.1*		"	*23.9*		*118*	*25-150*				
Surrogate: M3PFHxS	*28.4*		"	*22.7*		*125*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*27.2*		"	*23.9*		*114*	*25-150*				
Surrogate: M6PFDA	*13.7*		"	*12.0*		*115*	*25-150*				
Surrogate: M7PFUdA	*13.8*		"	*12.0*		*115*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.4*		"	*12.0*		*103*	*25-150*				
Surrogate: M2PFTeDA	*9.67*		"	*12.0*		*80.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.75*		"	*95.7*		*6.00*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*27.0*		"	*22.9*		*118*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*50.2*		"	*47.9*		*105*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*25.1*		"	*23.9*		*105*	*10-150*				
Surrogate: d3-N-MeFOSAA	*48.1*		"	*47.9*		*100*	*25-150*				
Surrogate: d5-N-EtFOSAA	*54.2*		"	*47.9*		*113*	*25-150*				
Surrogate: M2-6:2 FTS	*16.1*		"	*45.5*		*35.3*	*25-200*				
Surrogate: M2-8:2 FTS	*19.0*		"	*46.0*		*41.4*	*25-200*				
Surrogate: M9PFNA	*14.0*		"	*12.0*		*117*	*25-150*				
Surrogate: M2-4:2 FTS	*13.2*		"	*44.9*		*29.4*	*25-150*				
Surrogate: d-N-MeFOSA	*12.7*		"	*23.9*		*53.1*	*25-150*				
Surrogate: d-N-EtFOSA	*10.3*		"	*23.9*		*42.9*	*25-150*				
Surrogate: M3HFPO-DA	*46.9*		"	*95.7*		*49.0*	*25-150*				
Surrogate: d9-N-EtFOSE	*306*		"	*239*		*128*	*25-150*				
Surrogate: d7-N-MeFOSE	*345*		"	*239*		*144*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

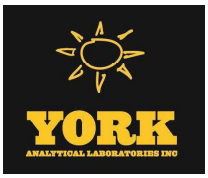
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA50704 - EPA 1633 Prep											
LCS (BA50704-BS1)								Prepared: 01/13/2025 Analyzed: 01/15/2025			
Perfluorobutanesulfonic acid (PFBS)	37.0	1.77	ng/L	35.4		105	50-150				
Perfluorohexanoic acid (PFHxA)	39.0	2.00	"	40.0		97.5	50-150				
Perfluoroheptanoic acid (PFHpA)	35.0	2.00	"	40.0		87.5	50-150				
Perfluorohexanesulfonic acid (PFHxS)	35.0	1.83	"	36.6		95.5	50-150				
Perfluorooctanoic acid (PFOA)	36.3	2.00	"	40.0		90.8	50-150				
Perfluorooctanesulfonic acid (PFOS)	31.0	1.86	"	37.2		83.4	50-150				
Perfluorononanoic acid (PFNA)	43.5	2.00	"	40.0		109	50-150				
Perfluorodecanoic acid (PFDA)	37.1	2.00	"	40.0		92.8	50-150				
Perfluoroundecanoic acid (PFUnA)	40.1	2.00	"	40.0		100	50-150				
Perfluorododecanoic acid (PFDoA)	39.6	2.00	"	40.0		99.0	50-150				
Perfluorotridecanoic acid (PFTrDA)	49.5	2.00	"	40.0		124	50-150				
Perfluorotetradecanoic acid (PFTA)	37.4	2.00	"	40.0		93.4	50-150				
N-MeFOSAA	41.8	2.00	"	40.0		105	50-150				
N-EtFOSAA	41.2	2.00	"	40.0		103	50-150				
Perfluoropentanoic acid (PFPeA)	89.0	4.00	"	80.0		111	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	40.5	2.00	"	40.0		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	31.7	1.91	"	38.2		83.1	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	39.8	1.93	"	38.6		103	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	140	7.60	"	152		92.3	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	151	7.68	"	154		98.4	50-150				
Perfluoro-n-butanoic acid (PFBA)	136	8.00	"	160		85.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	55.2	3.56	"	71.2		77.5	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	73.2	4.00	"	80.0		91.5	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	14.6	4.00	"	80.0		18.3	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	119	4.00	"	80.0		148	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	36.7	1.88	"	37.6		97.6	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	154	7.50	"	150		103	50-150				
HFPO-DA (Gen-X)	97.8	8.00	"	80.0		122	50-150				
11CL-PF3OUdS	170	7.56	"	75.6		224	50-150	High Bias			
9CL-PF3ONS	171	7.48	"	74.8		228	50-150	High Bias			
ADONA	206	7.56	"	75.6		273	50-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	32.3	1.94	"	38.8		83.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	44.4	1.92	"	38.4		116	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	82.3	5.00	"	160		51.5	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	571	25.0	"	800		71.4	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	634	25.0	"	800		79.2	50-150				
N-MeFOSE	429	20.0	"	400		107	50-150				
N-MeFOSA	38.6	2.00	"	40.0		96.4	50-150				
N-EtFOSE	365	20.0	"	400		91.2	50-150				
N-EtFOSA	25.0	2.00	"	40.0		62.6	50-150				
Surrogate: M3PFBS	*29.9*		*"*	*23.3*		*128*	*25-150*				
Surrogate: M5PFHxA	*27.7*		*"*	*25.0*		*111*	*25-150*				
Surrogate: M4PFHpA	*31.1*		*"*	*25.0*		*124*	*25-150*				
Surrogate: M3PFHxS	*34.5*		*"*	*23.7*		*145*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*29.4*		*"*	*25.0*		*118*	*25-150*				
Surrogate: M6PFDA	*14.1*		*"*	*12.5*		*113*	*25-150*				
Surrogate: M7PFUdA	*15.3*		*"*	*12.5*		*123*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

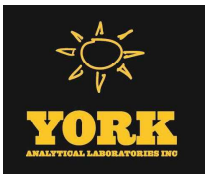
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA50704 - EPA 1633 Prep											
LCS (BA50704-BS1)								Prepared: 01/13/2025 Analyzed: 01/15/2025			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*13.5*		*ng/L*	*12.5*		*108*	*25-150*				
Surrogate: M2PFTeDA	*10.6*		*"*	*12.5*		*84.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.23*		*"*	*100*		*2.23*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*27.0*		*"*	*24.0*		*113*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*31.1*		*"*	*50.0*		*62.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*26.0*		*"*	*25.0*		*104*	*10-150*				
Surrogate: d3-N-MeFOSAA	*50.3*		*"*	*50.0*		*101*	*25-150*				
Surrogate: d5-N-EtFOSAA	*58.3*		*"*	*50.0*		*117*	*25-150*				
Surrogate: M2-6:2 FTS	*20.9*		*"*	*47.6*		*43.9*	*25-200*				
Surrogate: M2-8:2 FTS	*29.2*		*"*	*48.0*		*60.9*	*25-200*				
Surrogate: M9PFNA	*12.6*		*"*	*12.5*		*101*	*25-150*				
Surrogate: M2-4:2 FTS	*18.2*		*"*	*46.9*		*38.9*	*25-150*				
Surrogate: d-N-MeFOSA	*14.5*		*"*	*25.0*		*57.8*	*25-150*				
Surrogate: d-N-EtFOSA	*15.3*		*"*	*25.0*		*61.0*	*25-150*				
Surrogate: M3HFPO-DA	*47.1*		*"*	*100*		*47.1*	*25-150*				
Surrogate: d9-N-EtFOSE	*318*		*"*	*250*		*127*	*25-150*				
Surrogate: d7-N-MeFOSE	*345*		*"*	*250*		*138*	*25-150*				
LCS (BA50704-BS2)								Prepared: 01/13/2025 Analyzed: 01/15/2025			
Perfluorobutanesulfonic acid (PFBS)	3.71	1.77	ng/L	3.54		105	50-150				
Perfluorohexanoic acid (PFHxA)	4.09	2.00	"	4.00		102	50-150				
Perfluoroheptanoic acid (PFHpA)	3.75	2.00	"	4.00		93.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.38	1.83	"	3.66		120	50-150				
Perfluorooctanoic acid (PFOA)	3.40	2.00	"	4.00		85.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.01	1.86	"	3.72		80.9	50-150				
Perfluorononanoic acid (PFNA)	3.05	2.00	"	4.00		76.2	50-150				
Perfluorodecanoic acid (PFDA)	4.04	2.00	"	4.00		101	50-150				
Perfluoroundecanoic acid (PFUnA)	3.87	2.00	"	4.00		96.7	50-150				
Perfluorododecanoic acid (PFDoA)	3.85	2.00	"	4.00		96.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	6.04	2.00	"	4.00		151	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	3.87	2.00	"	4.00		96.7	50-150				
N-MeFOSAA	3.97	2.00	"	4.00		99.1	50-150				
N-EtFOSAA	4.44	2.00	"	4.00		111	50-150				
Perfluoropentanoic acid (PFPeA)	7.82	4.00	"	8.00		97.8	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.82	2.00	"	4.00		95.6	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.28	1.91	"	3.82		85.7	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.48	1.93	"	3.86		90.1	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	14.2	7.60	"	15.2		93.2	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	13.9	7.68	"	15.4		90.2	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.7	8.00	"	16.0		85.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.25	3.56	"	7.12		73.8	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.70	4.00	"	8.00		71.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.36	4.00	"	8.00		17.0	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.79	4.00	"	8.00		110	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.22	1.88	"	3.76		112	50-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA50704 - EPA 1633 Prep											
LCS (BA50704-BS2)								Prepared: 01/13/2025 Analyzed: 01/15/2025			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	15.8	7.50	ng/L	15.0		105	50-150				
HFPO-DA (Gen-X)	12.7	8.00	"	8.00		159	50-150	High Bias			
11CL-PF3OUdS	13.6	7.56	"	7.56		180	50-150	High Bias			
9CL-PF3ONS	15.9	7.48	"	7.48		213	50-150	High Bias			
ADONA	18.5	7.56	"	7.56		244	50-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	2.80	1.94	"	3.88		72.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.23	1.92	"	3.84		110	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	8.03	5.00	"	16.0		50.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	52.0	25.0	"	80.0		65.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	58.4	25.0	"	80.0		73.0	50-150				
N-MeFOSE	48.5	20.0	"	40.0		121	50-150				
N-MeFOSA	4.97	2.00	"	4.00		124	50-150				
N-EtFOSE	40.7	20.0	"	40.0		102	50-150				
N-EtFOSA	2.56	2.00	"	4.00		63.9	50-150				
Surrogate: M3PFBS	*26.5*		"	*23.3*		*114*	*25-150*				
Surrogate: M5PFHxA	*28.0*		"	*25.0*		*112*	*25-150*				
Surrogate: M4PFHpA	*29.2*		"	*25.0*		*117*	*25-150*				
Surrogate: M3PFHxS	*28.3*		"	*23.7*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*30.9*		"	*25.0*		*124*	*25-150*				
Surrogate: M6PFDA	*13.2*		"	*12.5*		*105*	*25-150*				
Surrogate: M7PFUdA	*14.1*		"	*12.5*		*112*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*14.5*		"	*12.5*		*116*	*25-150*				
Surrogate: M2PFTeDA	*8.92*		"	*12.5*		*71.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.29*		"	*100*		*3.29*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*26.1*		"	*24.0*		*109*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*45.4*		"	*50.0*		*90.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*25.3*		"	*25.0*		*101*	*10-150*				
Surrogate: d3-N-MeFOSAA	*46.5*		"	*50.0*		*93.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*51.5*		"	*50.0*		*103*	*25-150*				
Surrogate: M2-6:2 FTS	*14.4*		"	*47.6*		*30.3*	*25-200*				
Surrogate: M2-8:2 FTS	*21.2*		"	*48.0*		*44.1*	*25-200*				
Surrogate: M9PFNA	*15.9*		"	*12.5*		*127*	*25-150*				
Surrogate: M2-4:2 FTS	*13.4*		"	*46.9*		*28.5*	*25-150*				
Surrogate: d-N-MeFOSA	*13.0*		"	*25.0*		*52.0*	*25-150*				
Surrogate: d-N-EtFOSA	*13.6*		"	*25.0*		*54.4*	*25-150*				
Surrogate: M3HFPO-DA	*49.6*		"	*100*		*49.6*	*25-150*				
Surrogate: d9-N-EtFOSE	*292*		"	*250*		*117*	*25-150*				
Surrogate: d7-N-MeFOSE	*318*		"	*250*		*127*	*25-150*				


YORK
ANALYTICAL LABORATORIES INC

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

25A0556

Cooler: Yes [v] No [ ]
Coolant: IPK [ ] ICE [v] No [ ]
Temp 2.6 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 1
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax: 860-645-0823
[ ] Phone: 800-827-5426
[ ] Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories, Inc.
Address: 132-02 89th Avenue
Richmond Hill, NY

Project #: GCS40379
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCS40379

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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

Analysis Request

Phoenix Sample ID	Sample Matrix	Date Sampled	Time Sampled	PFAS (40) by EPA 1633 EPA 1633 (draft)	500ml HDPE Plastic As Is
22MW-4S	GW	1/7/2025	12:15 PM	x	2
22MW-4D	GW	1/7/2025	2:45 PM	x	2
22MW-1	GW	1/7/2025	4:00 PM	x	2
22MW-2	GW	1/7/2025	5:00 PM	x	2
PFAS FIELD BLANK	WTR	1/7/2025	---	x	2

Relinquished by:	Accepted by:	Date:	Time:
		1-10-25	0725
	North Coast	1/10/25	0930
North Coast	AMi	1/10/25	20:45

Comments, Special Requirements or Regulations:

AMi 1/10/25 22:20 V 1/13/25 8:00 1.8

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

Turnaround:
[ ] 1 Day
[ ] 2 Days
[ ] 3 Days
[ ] 5 Days
[ ] 10 Days
[X] Standard
[ ] Other_____

Report Type:
[X] Standard PDF
[ ] Full Data Package
[ ] NJ Reduced Deliverable
[ ] NJ Full Deliverable
[X] NY ASP B

What State were samples collected?
NY

EDD Format:
[ ] Excel
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other:_____

State Criteria:
NY: TAGM/TOGS GW

25A0556

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

Temp °C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 1
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories, Inc.
Address: 132-02 89th Avenue
Richmond Hill, NY

Project #: GCS40379
Report to: HelenG@PhoenixLabs.com ; Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCS40379

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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

	Phoenix Sample ID	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: PFAS (40) by EPA 1633 EPA 1633 (draft)	500ml HDPE Plastic As Is
	23MW-4S	GW	1/7/2025	12:15 PM	x	2
	23MW-4D	GW	1/7/2025	2:45 PM	x	2
	23MW-1	GW	1/7/2025	4:00 PM	x	2
	23MW-2	GW	1/7/2025	5:00 PM	x	2
	PFAS FIELD BLANK	WTR	1/7/2025	—	x	2

Relinquished by:	Accepted by:	Date:	Time:
Rob Bailey		1-10-25	

Turnaround:
☐ 1 Day
☐ 2 Days
☐ 3 Days
☐ 5 Days
☐ 10 Days
☒ Standard
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☒ NY ASP B

EDD Format:
☐ Excel
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:
NY: TAGM/TOGS GW

What State were samples collected?
NY

Comments, Special Requirements or Regulations:
Revised COC EZ 1/13/25 8:00 LS

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

PHOENIX
Environmental Laboratories, Inc.

Friday, January 24, 2025

Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Project ID:
SDG ID: GCS41678
Sample ID#s: CS41678 - CS41682

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

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

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

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

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

NY # 11301

SDG Comments

January 24, 2025

SDG I.D.: GCS41678

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

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

The regulatory hold time for Filtration is 24 hours. Filtration was performed in the laboratory and may be considered outside of hold-time.

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

NY # 11301

Sample Id Cross Reference

January 24, 2025

SDG I.D.: GCS41678

Project ID:

Client Id	Lab Id	Matrix	Col Date
23MW-3	CS41678	GROUND WATER	01/08/25 12:45
23MW-6	CS41679	GROUND WATER	01/08/25 11:50
23MW-5	CS41680	GROUND WATER	01/08/25 14:15
PFAS FIELD BLANK	CS41681	WATER	01/08/25 0:00
FIELD BLANK	CS41682	GROUND WATER	01/08/25 0:00

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 24, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/08/25	12:45
Location Code:	TOUCHSTONE	Received by:	B	01/09/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS41678
Phoenix ID: CS41678

Project ID:
Client ID: 23MW-3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D
Aluminum	0.445	0.020	0.01	mg/L	1	01/14/25	TH	SW6010D
Arsenic	0.007	0.004	0.004	mg/L	1	01/14/25	TH	SW6010D
Barium	0.126	0.002	0.001	mg/L	1	01/14/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D
Calcium	171	0.10	0.10	mg/L	10	01/14/25	CPP	SW6010D
Cadmium	ND	0.001	0.0005	mg/L	1	01/14/25	TH	SW6010D
Cobalt	ND	0.002	0.001	mg/L	1	01/14/25	TH	SW6010D
Chromium	0.003	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D
Copper	0.010	0.005	0.001	mg/L	1	01/14/25	TH	SW6010D
Silver (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Aluminum (Dissolved)	ND	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D
Arsenic (Dissolved)	0.008	0.004	0.004	mg/L	1	01/13/25	TH	SW6010D
Barium (Dissolved)	0.115	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Calcium (Dissolved)	160	0.01	0.01	mg/L	1	01/13/25	TH	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	01/13/25	TH	SW6010D
Cobalt (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Copper (Dissolved)	0.008	0.005	0.001	mg/L	1	01/13/25	TH	SW6010D
Iron (Dissolved)	0.018	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	01/17/25	ZT	SW7470A
Potassium (Dissolved)	53.2	1.1	0.11	mg/L	10	01/14/25	CPP	SW6010D
Magnesium (Dissolved)	17.1	0.01	0.01	mg/L	1	01/13/25	TH	SW6010D
Manganese (Dissolved)	0.015	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Sodium (Dissolved)	72.8	1.1	0.11	mg/L	10	01/14/25	CPP	SW6010D
Nickel (Dissolved)	0.003	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D

Project ID:

Client ID: 23MW-3

Phoenix I.D.: CS41678

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)	ND	0.005	0.01	mg/L	1	01/13/25	TH	SW6010D	
Selenium (Dissolved)	0.027	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D	
Thallium (Dissolved)	ND	0.002	0.001	mg/L	1	01/14/25	ZT	SW7010	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	01/14/25	MGH	SW6020B	
Vanadium (Dissolved)	0.016	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D	
Zinc (Dissolved)	ND	0.002	0.0012	mg/L	1	01/13/25	TH	SW6010D	
Iron	1.02	0.010	0.01	mg/L	1	01/14/25	TH	SW6010D	
Mercury	ND	0.0002	0.00015	mg/L	1	01/14/25	ZT	SW7470A	
Potassium	51.1	1.0	0.10	mg/L	10	01/14/25	CPP	SW6010D	
Magnesium	17.9	0.010	0.01	mg/L	1	01/14/25	TH	SW6010D	
Manganese	0.032	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D	
Sodium	71.4	1.0	0.10	mg/L	10	01/14/25	CPP	SW6010D	
Nickel	0.004	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D	
Lead	0.006	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D	
Antimony	0.008	0.005	0.01	mg/L	1	01/14/25	TH	SW6010D	
Selenium	0.026	0.010	0.01	mg/L	1	01/14/25	TH	SW6010D	
Thallium	ND	0.0005	0.0005	mg/L	5	01/10/25	MGH	SW6020B	
Vanadium	0.017	0.002	0.001	mg/L	1	01/14/25	TH	SW6010D	
Zinc	0.006	0.004	0.0011	mg/L	1	01/14/25	TH	SW6010D	
Alkalinity-CaCO3	214	20.0		mg/L	1	01/10/25	KG/EG	SM2320B-11	
Chloride	44.0	5.0	3	mg/L	1	01/09/25	DD/GD	E300.0	
Nitrate as Nitrogen	1.48	0.05	0.01	mg/L	1	01/09/25 19:28	DD/GD	E300.0	
pH	8.03	1.00	1.00	pH Units	1	01/10/25 00:53	JM/ER	SM4500-H B-11	1
Redox Potential	113			mV	1	01/10/25	JM/ER	SM2580B-09	1
Sulfate	375	50.0	25.0	mg/L	10	01/11/25	DD/GD	E300.0	
Sulfide	ND	0.05	0.05	mg/L	1	01/14/25	GD	SM4500S-D-11	
Lab Filtration	Completed					01/10/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					01/17/25	MQ/GW	SW7470A	
Mercury Digestion	Completed					01/12/25	GW/AK	SW7470A	
PCB Extraction (LDL)	Completed					01/10/25	A/A	SW3510C	
Extraction for Pest (LDL)	Completed					01/10/25	A/A	SW3510C	
Semi-Volatile Extraction	Completed					01/09/25	Z/MQ	SW3520C	
Total Metals Digestion (GFAA)	Completed					01/13/25	AG	SM3113B-10	
Dissolved Metals Preparation	Completed					01/10/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					01/13/25	AG	SW3005A	
Total Metals Digestion	Completed					01/13/25	AG	SW3010A	
Total Metals Digestion MS	Completed					01/09/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed					01/17/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	7.34	1.34	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	7.45	1.99	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	7.28	1.74	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	7.38	7.28	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	4.85	1.97	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	24.3	7.11	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	24.3	9.19	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	7.26	0.679	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
ADONA	ND	7.34	0.514	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C

Ver 1

Project ID:

Phoenix I.D.: CS41678

Client ID: 23MW-3

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
HFPO-DA	ND		7.76	3.13	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND		1.94	1.75	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		1.94	1.00	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		19.4	3.87	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		3.88	2.08	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		1.94	1.53	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		1.94	0.767	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		19.4	3.87	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		1.87	1.28	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		1.85	0.883	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		1.94	0.854	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	3.83		1.72	0.456	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		1.94	0.728	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		1.88	0.903	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		1.94	0.854	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	8.54		1.94	0.689	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	2.43		1.78	0.660	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	13.4		1.94	0.340	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND		7.76	0.320	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		1.86	0.835	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	0.992	J	1.94	0.505	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	6.80		1.81	0.796	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	19.2		1.94	0.408	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		1.82	0.738	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	13.8		3.88	0.223	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		1.94	0.670	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		1.94	0.718	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		1.94	1.10	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.45	0.485	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		3.88	0.359	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		3.88	0.243	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	87.8				%	1	01/20/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	92.6				%	1	01/20/25	AM	25 - 150 %	C
% d7-N-MeFOSE	63.0				%	1	01/20/25	AM	25 - 150 %	C
% d9-N-EtFOSE	63.9				%	1	01/20/25	AM	25 - 150 %	C
% d-N-EtFOSA	44.8				%	1	01/20/25	AM	25 - 150 %	C
% d-N-MeFOSA	67.7				%	1	01/20/25	AM	25 - 150 %	C
% M2-4:2 FTS	211				%	1	01/20/25	AM	25 - 150 %	C,3
% M2-6:2 FTS	186				%	1	01/20/25	AM	25 - 200 %	C
% M2-8:2 FTS	97.9				%	1	01/20/25	AM	25 - 200 %	C
% M2PFTEDA	48.1				%	1	01/20/25	AM	10 - 150 %	C
% M3HFPO-DA	69.4				%	1	01/20/25	AM	25 - 150 %	C
% M3PFBS	99.2				%	1	01/20/25	AM	25 - 150 %	C
% M3PFHxS	109				%	1	01/20/25	AM	25 - 150 %	C
% M4PFHpA	93.8				%	1	01/20/25	AM	25 - 150 %	C
% M5PFHxA	105				%	1	01/20/25	AM	25 - 150 %	C
% M5PFPEA	85.9				%	1	01/20/25	AM	25 - 150 %	C
% M6PFDA	111				%	1	01/20/25	AM	25 - 150 %	C

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% M7PFUDA	81.7			%	1	01/20/25	AM	25 - 150 %	C
% M8FOSA	100			%	1	01/20/25	AM	10 - 150 %	C
% M8PFOA	125			%	1	01/20/25	AM	25 - 150 %	C
% M8PFOS	107			%	1	01/20/25	AM	25 - 150 %	C
% M9PFNA	94.1			%	1	01/20/25	AM	25 - 150 %	C
% MPFBA	7.07			%	1	01/20/25	AM	25 - 150 %	C,3
% MPFDOA	67.1			%	1	01/20/25	AM	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1221	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1232	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1242	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1248	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1254	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1260	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1262	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
PCB-1268	ND	0.060	0.060	ug/L	1	01/14/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	81			%	1	01/14/25	SC	30 - 150 %	
% DCBP (Confirmation)	80			%	1	01/14/25	SC	30 - 150 %	
% TCMX	82			%	1	01/14/25	SC	30 - 150 %	
% TCMX (Confirmation)	88			%	1	01/14/25	SC	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
4,4' -DDE	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
4,4' -DDT	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
a-BHC	ND	0.030	0.030	ug/L	1	01/14/25	AW	SW8081B	
Alachlor	ND	0.089	0.089	ug/L	1	01/14/25	AW	SW8081B	1
Aldrin	ND	0.010	0.010	ug/L	1	01/14/25	AW	SW8081B	
b-BHC	ND	0.006	0.006	ug/L	1	01/14/25	AW	SW8081B	
Chlordane	ND	0.36	0.36	ug/L	1	01/14/25	AW	SW8081B	
d-BHC	ND	0.030	0.030	ug/L	1	01/14/25	AW	SW8081B	
Dieldrin	ND	0.002	0.002	ug/L	1	01/14/25	AW	SW8081B	
Endosulfan I	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
Endosulfan II	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
Endrin	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
Endrin Aldehyde	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
Endrin ketone	ND	0.060	0.060	ug/L	1	01/14/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.030	0.030	ug/L	1	01/14/25	AW	SW8081B	
Heptachlor	ND	0.030	0.030	ug/L	1	01/14/25	AW	SW8081B	
Heptachlor epoxide	ND	0.030	0.030	ug/L	1	01/14/25	AW	SW8081B	
Methoxychlor	ND	0.12	0.12	ug/L	1	01/14/25	AW	SW8081B	
Toxaphene	ND	1.2	1.2	ug/L	1	01/14/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	74			%	1	01/14/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	66			%	1	01/14/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	67			%	1	01/14/25	AW	30 - 150 %	

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%TCMX (Surrogate Rec) (Confirmation)	79			%	1	01/14/25	AW	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Hexanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Acetone	ND	25	2.5	ug/L	1	01/10/25	MH	SW8260D	
Acrylonitrile	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromodichloromethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromoform	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromomethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	B
Carbon Disulfide	ND	5.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroform	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromochloromethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	

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Isopropylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methylene chloride	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	2.5	ug/L	1	01/10/25	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Total Xylenes	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
trans-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	103			%	1	01/10/25	MH	70 - 130 %	
% Bromofluorobenzene	88			%	1	01/10/25	MH	70 - 130 %	
% Dibromofluoromethane	99			%	1	01/10/25	MH	70 - 130 %	
% Toluene-d8	100			%	1	01/10/25	MH	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.5	3.5	ug/L	1	01/13/25	MR	SW8270E	
1,2,4-Trichlorobenzene	ND	5.1	1.5	ug/L	1	01/13/25	MR	SW8270E	
1,2-Dichlorobenzene	ND	2.5	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,2-Diphenylhydrazine	ND	5.1	1.5	ug/L	1	01/13/25	MR	SW8270E	
1,3-Dichlorobenzene	ND	2.5	1.5	ug/L	1	01/13/25	MR	SW8270E	
1,4-Dichlorobenzene	ND	2.5	1.5	ug/L	1	01/13/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	5.1	1.4	ug/L	1	01/13/25	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dichlorophenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dimethylphenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dinitrophenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	5.1	2.0	ug/L	1	01/13/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	5.1	1.6	ug/L	1	01/13/25	MR	SW8270E	
2-Chloronaphthalene	ND	5.1	1.4	ug/L	1	01/13/25	MR	SW8270E	
2-Chlorophenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	
2-Nitroaniline	ND	5.1	2.0	ug/L	1	01/13/25	MR	SW8270E	
2-Nitrophenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E	

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3&4-Methylphenol (m&p-cresol)	ND	10	2.0	ug/L	1	01/13/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	5.1	2.4	ug/L	1	01/13/25	MR	SW8270E
3-Nitroaniline	ND	5.1	2.0	ug/L	1	01/13/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	5.1	1.5	ug/L	1	01/13/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E
4-Chloroaniline	ND	5.1	2.4	ug/L	1	01/13/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E
4-Nitroaniline	ND	5.1	2.0	ug/L	1	01/13/25	MR	SW8270E
4-Nitrophenol	ND	1.0	1.0	ug/L	1	01/13/25	MR	SW8270E
Acetophenone	ND	5.1	1.6	ug/L	1	01/13/25	MR	SW8270E
Aniline	ND	5.1	3.5	ug/L	1	01/13/25	MR	SW8270E
Benzidine	ND	5.1	3.0	ug/L	1	01/13/25	MR	SW8270E
Benzoic acid	ND	51	10	ug/L	1	01/13/25	MR	SW8270E
Benzyl butyl phthalate	ND	5.1	1.3	ug/L	1	01/13/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	5.1	1.4	ug/L	1	01/13/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	1.0	1.0	ug/L	1	01/13/25	MR	SW8270E
Carbazole	ND	5.1	3.8	ug/L	1	01/13/25	MR	SW8270E
Dibenzofuran	ND	5.1	1.5	ug/L	1	01/13/25	MR	SW8270E
Diethyl phthalate	ND	5.1	0.91	ug/L	1	01/13/25	MR	SW8270E
Dimethylphthalate	ND	5.1	1.6	ug/L	1	01/13/25	MR	SW8270E
Di-n-butylphthalate	ND	5.1	1.3	ug/L	1	01/13/25	MR	SW8270E
Di-n-octylphthalate	ND	5.1	1.3	ug/L	1	01/13/25	MR	SW8270E
Hexachloroethane	ND	1.0	1.0	ug/L	1	01/13/25	MR	SW8270E
Isophorone	ND	5.1	1.4	ug/L	1	01/13/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	5.1	1.6	ug/L	1	01/13/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	5.1	1.9	ug/L	1	01/13/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.5	2.5	ug/L	1	01/13/25	MR	SW8270E
Phenol	ND	1.0	0.91	ug/L	1	01/13/25	MR	SW8270E
QA/QC Surrogates								
% 2,4,6-Tribromophenol	75			%	1	01/13/25	MR	15 - 110 %
% 2-Fluorobiphenyl	57			%	1	01/13/25	MR	30 - 130 %
% 2-Fluorophenol	39			%	1	01/13/25	MR	15 - 110 %
% Nitrobenzene-d5	56			%	1	01/13/25	MR	30 - 130 %
% Phenol-d5	46			%	1	01/13/25	MR	15 - 110 %
% Terphenyl-d14	50			%	1	01/13/25	MR	30 - 130 %
Semivolatiles (SIM)								
2-Methylnaphthalene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)
Acenaphthene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)
Acenaphthylene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)
Anthracene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benz(a)anthracene	0.07	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(a)pyrene	0.06	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(b)fluoranthene	0.05	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(k)fluoranthene	0.04	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Chrysene	0.06	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Fluoranthene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Fluorene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	0.03	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Naphthalene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Nitrobenzene	ND	0.40	0.40	ug/L	1	01/13/25	AW	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pentachlorophenol	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Phenanthrene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pyrene	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pyridine	ND	0.51	0.51	ug/L	1	01/13/25	AW	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	71			%	1	01/13/25	AW	15 - 110 %	
% 2-Fluorobiphenyl	59			%	1	01/13/25	AW	30 - 130 %	
% 2-Fluorophenol	47			%	1	01/13/25	AW	15 - 110 %	
% Nitrobenzene-d5	61			%	1	01/13/25	AW	30 - 130 %	
% Phenol-d5	60			%	1	01/13/25	AW	15 - 110 %	
% Terphenyl-d14	59			%	1	01/13/25	AW	30 - 130 %	
1,4-dioxane									
1,4-dioxane	0.22	0.20	0.20	ug/l	1	01/13/25	AW	SW8270ESIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	93			%	1	01/13/25	AW	70 - 130 %	
Extraction for 1,4-Dioxane	Completed					01/10/25	G/G	SW8270ESIM	1

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

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

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

Comments:

*See attached

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The regulatory hold time for Dissolved Oxygen is immediately. This DO was performed in the laboratory and may be considered outside of hold-time.

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

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

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 24, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 24, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/08/25	11:50
Location Code:	TOUCHSTONE	Received by:	B	01/09/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS41678
Phoenix ID: CS41679

Project ID:
Client ID: 23MW-6

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D
Aluminum	12.2	0.020	0.01	mg/L	1	01/14/25	TH	SW6010D
Arsenic	0.007	0.004	0.004	mg/L	1	01/14/25	TH	SW6010D
Barium	0.719	0.002	0.001	mg/L	1	01/14/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D
Calcium	532	0.10	0.10	mg/L	10	01/14/25	CPP	SW6010D
Cadmium	0.001	0.001	0.0005	mg/L	1	01/14/25	TH	SW6010D
Cobalt	0.008	0.002	0.001	mg/L	1	01/14/25	TH	SW6010D
Chromium	0.041	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D
Copper	0.047	0.005	0.001	mg/L	1	01/14/25	TH	SW6010D
Silver (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Aluminum (Dissolved)	ND	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D
Arsenic (Dissolved)	ND	0.004	0.004	mg/L	1	01/13/25	TH	SW6010D
Barium (Dissolved)	0.073	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Calcium (Dissolved)	179	0.11	0.11	mg/L	10	01/14/25	CPP	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	01/13/25	TH	SW6010D
Cobalt (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Copper (Dissolved)	ND	0.005	0.001	mg/L	1	01/13/25	TH	SW6010D
Iron (Dissolved)	0.093	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	01/17/25	ZT	SW7470A
Potassium (Dissolved)	19.3	1.1	0.11	mg/L	10	01/14/25	CPP	SW6010D
Magnesium (Dissolved)	29.4	0.01	0.01	mg/L	1	01/13/25	TH	SW6010D
Manganese (Dissolved)	1.51	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Sodium (Dissolved)	43.1	0.11	0.01	mg/L	1	01/13/25	TH	SW6010D
Nickel (Dissolved)	0.004	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Lead (Dissolved)	0.003	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)	ND	0.005	0.01	mg/L	1	01/13/25	TH	SW6010D	
Selenium (Dissolved)	ND	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D	
Thallium (Dissolved)	ND	0.002	0.001	mg/L	1	01/14/25	ZT	SW7010	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	01/14/25	MGH	SW6020B	
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D	
Zinc (Dissolved)	0.008	0.002	0.0012	mg/L	1	01/13/25	TH	SW6010D	
Iron	19.5	0.010	0.01	mg/L	1	01/14/25	TH	SW6010D	
Mercury	0.0003	0.0002	0.00015	mg/L	1	01/14/25	ZT	SW7470A	
Potassium	15.9	1.0	0.10	mg/L	10	01/14/25	CPP	SW6010D	
Magnesium	54.2	0.010	0.01	mg/L	1	01/14/25	TH	SW6010D	
Manganese	0.980	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D	
Sodium	41.6	0.10	0.01	mg/L	1	01/14/25	TH	SW6010D	
Nickel	0.037	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D	
Lead	0.399	0.001	0.001	mg/L	1	01/14/25	TH	SW6010D	
Antimony	ND	0.005	0.01	mg/L	1	01/14/25	TH	SW6010D	
Selenium	0.094	0.010	0.01	mg/L	1	01/14/25	TH	SW6010D	
Thallium	ND	0.0005	0.0005	mg/L	5	01/10/25	MGH	SW6020B	
Vanadium	0.046	0.002	0.001	mg/L	1	01/14/25	TH	SW6010D	
Zinc	0.474	0.004	0.0011	mg/L	1	01/14/25	TH	SW6010D	
Alkalinity-CaCO3	288	20.0		mg/L	1	01/10/25	KG/EG	SM2320B-11	
Chloride	108	10.0	6	mg/L	2	01/11/25	DD/GD	E300.0	
Nitrate as Nitrogen	ND	0.05	0.01	mg/L	1	01/09/25 19:37	DD/GD	E300.0	
pH	7.05	1.00	1.00	pH Units	1	01/10/25 00:53	JM/ER	SM4500-H B-11	1
Redox Potential	173			mV	1	01/10/25	JM/ER	SM2580B-09	1
Sulfate	206	25.0	12.5	mg/L	5	01/11/25	DD/GD	E300.0	
Sulfide	0.06	0.05	0.05	mg/L	1	01/14/25	GD	SM4500S-D-11	
Lab Filtration	Completed					01/10/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					01/17/25	MQ/GW	SW7470A	
Mercury Digestion	Completed					01/12/25	GW/AK	SW7470A	
PCB Extraction (LDL)	Completed					01/10/25	A/A	SW3510C	
Extraction for Pest (LDL)	Completed					01/10/25	A/A	SW3510C	
Semi-Volatile Extraction	Completed					01/09/25	Z/MQ	SW3520C	
Total Metals Digestion (GFAA)	Completed					01/13/25	AG	SM3113B-10	
Dissolved Metals Preparation	Completed					01/10/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					01/13/25	AG	SW3005A	
Total Metals Digestion	Completed					01/13/25	AG	SW3010A	
Total Metals Digestion MS	Completed					01/09/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed					01/17/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	7.67	1.40	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	7.79	2.08	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	7.61	1.82	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	7.71	7.61	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	5.07	2.06	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	25.4	7.44	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	25.4	9.61	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	7.59	0.710	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
ADONA	ND	7.67	0.538	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
HFPO-DA	ND		8.12	3.28	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND		2.03	1.83	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.03	1.05	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		20.3	4.05	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.06	2.17	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.03	1.60	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.03	0.802	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		20.3	4.05	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		1.96	1.34	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	1.16	J	1.94	0.923	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.03	0.893	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	5.39		1.80	0.477	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.03	0.761	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		1.97	0.944	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.03	0.893	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	24.4		2.03	0.721	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	4.37		1.86	0.690	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	40.4		2.03	0.355	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	26.1		8.12	0.335	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		1.95	0.873	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND		2.03	0.528	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	3.86		1.89	0.832	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	41.8		2.03	0.426	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	0.780	J	1.91	0.771	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	45.8		4.06	0.233	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.03	0.700	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.03	0.751	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.03	1.15	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.61	0.507	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.06	0.375	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.06	0.254	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	77.8				%	1	01/20/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	76.7				%	1	01/20/25	AM	25 - 150 %	C
% d7-N-MeFOSE	39.3				%	1	01/20/25	AM	25 - 150 %	C
% d9-N-EtFOSE	30.1				%	1	01/20/25	AM	25 - 150 %	C
% d-N-EtFOSA	31.6				%	1	01/20/25	AM	25 - 150 %	C
% d-N-MeFOSA	49.4				%	1	01/20/25	AM	25 - 150 %	C
% M2-4:2 FTS	166				%	1	01/20/25	AM	25 - 150 %	C,3
% M2-6:2 FTS	124				%	1	01/20/25	AM	25 - 200 %	C
% M2-8:2 FTS	76.2				%	1	01/20/25	AM	25 - 200 %	C
% M2PFTEDA	35.0				%	1	01/20/25	AM	10 - 150 %	C
% M3HFPO-DA	76.7				%	1	01/20/25	AM	25 - 150 %	C
% M3PFBS	101				%	1	01/20/25	AM	25 - 150 %	C
% M3PFHxS	103				%	1	01/20/25	AM	25 - 150 %	C
% M4PFHpA	106				%	1	01/20/25	AM	25 - 150 %	C
% M5PFHxA	114				%	1	01/20/25	AM	25 - 150 %	C
% M5PFPEA	114				%	1	01/20/25	AM	25 - 150 %	C
% M6PFDA	104				%	1	01/20/25	AM	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M7PFUDA	87.0			%	1	01/20/25	AM	25 - 150 %	C
% M8FOSA	91.7			%	1	01/20/25	AM	10 - 150 %	C
% M8PFOA	119			%	1	01/20/25	AM	25 - 150 %	C
% M8PFOS	101			%	1	01/20/25	AM	25 - 150 %	C
% M9PFNA	99.6			%	1	01/20/25	AM	25 - 150 %	C
% MPFBA	27.8			%	1	01/20/25	AM	25 - 150 %	C
% MPFDOA	52.2			%	1	01/20/25	AM	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1221	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1232	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1242	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1248	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1254	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1260	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1262	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
PCB-1268	ND	0.055	0.055	ug/L	1	01/14/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	81			%	1	01/14/25	SC	30 - 150 %	
% DCBP (Confirmation)	75			%	1	01/14/25	SC	30 - 150 %	
% TCMX	78			%	1	01/14/25	SC	30 - 150 %	
% TCMX (Confirmation)	80			%	1	01/14/25	SC	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
4,4' -DDE	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
4,4' -DDT	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
a-BHC	ND	0.027	0.027	ug/L	1	01/13/25	AW	SW8081B	
Alachlor	ND	0.082	0.082	ug/L	1	01/13/25	AW	SW8081B	1
Aldrin	ND	0.10	0.10	ug/L	1	01/13/25	AW	SW8081B	
b-BHC	ND	0.10	0.10	ug/L	1	01/13/25	AW	SW8081B	
Chlordane	ND	0.33	0.33	ug/L	1	01/13/25	AW	SW8081B	
d-BHC	ND	0.027	0.027	ug/L	1	01/13/25	AW	SW8081B	
Dieldrin	ND	0.010	0.010	ug/L	1	01/13/25	AW	SW8081B	
Endosulfan I	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
Endosulfan II	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
Endrin	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
Endrin Aldehyde	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
Endrin ketone	ND	0.055	0.055	ug/L	1	01/13/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.027	0.027	ug/L	1	01/13/25	AW	SW8081B	
Heptachlor	ND	0.027	0.027	ug/L	1	01/13/25	AW	SW8081B	
Heptachlor epoxide	ND	0.027	0.027	ug/L	1	01/13/25	AW	SW8081B	
Methoxychlor	ND	0.11	0.11	ug/L	1	01/13/25	AW	SW8081B	
Toxaphene	ND	1.1	1.1	ug/L	1	01/13/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	Interference			%	1	01/13/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	66			%	1	01/13/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	73			%	1	01/13/25	AW	30 - 150 %	

Ver 1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
%TCMX (Surrogate Rec) (Confirmation)	98			%	1	01/13/25	AW	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Hexanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Acetone	ND	25	2.5	ug/L	1	01/10/25	MH	SW8260D	
Acrylonitrile	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromodichloromethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromoform	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromomethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	B
Carbon Disulfide	ND	5.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroform	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,2-Dichloroethene	1.5	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromochloromethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methylene chloride	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrachloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	2.5	ug/L	1	01/10/25	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Total Xylenes	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
trans-1,2-Dichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Trichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	01/10/25	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	01/10/25	MH	70 - 130 %	
% Dibromofluoromethane	96			%	1	01/10/25	MH	70 - 130 %	
% Toluene-d8	101			%	1	01/10/25	MH	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.4	3.4	ug/L	1	01/13/25	MR	SW8270E	
1,2,4-Trichlorobenzene	ND	4.8	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,2-Dichlorobenzene	ND	2.4	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,2-Diphenylhydrazine	ND	4.8	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,3-Dichlorobenzene	ND	2.4	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,4-Dichlorobenzene	ND	2.4	1.4	ug/L	1	01/13/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.8	1.3	ug/L	1	01/13/25	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dichlorophenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dimethylphenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dinitrophenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	4.8	1.9	ug/L	1	01/13/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	4.8	1.5	ug/L	1	01/13/25	MR	SW8270E	
2-Chloronaphthalene	ND	4.8	1.4	ug/L	1	01/13/25	MR	SW8270E	
2-Chlorophenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	
2-Nitroaniline	ND	4.8	1.9	ug/L	1	01/13/25	MR	SW8270E	
2-Nitrophenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
3&4-Methylphenol (m&p-cresol)	ND	9.6	1.9	ug/L	1	01/13/25	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.8	2.3	ug/L	1	01/13/25	MR	SW8270E
3-Nitroaniline	ND	4.8	1.9	ug/L	1	01/13/25	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.8	1.4	ug/L	1	01/13/25	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E
4-Chloroaniline	ND	4.8	2.2	ug/L	1	01/13/25	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E
4-Nitroaniline	ND	4.8	1.9	ug/L	1	01/13/25	MR	SW8270E
4-Nitrophenol	ND	0.96	0.96	ug/L	1	01/13/25	MR	SW8270E
Acetophenone	ND	4.8	1.5	ug/L	1	01/13/25	MR	SW8270E
Aniline	ND	4.8	3.4	ug/L	1	01/13/25	MR	SW8270E
Benzidine	ND	4.8	2.8	ug/L	1	01/13/25	MR	SW8270E
Benzoic acid	ND	48	9.6	ug/L	1	01/13/25	MR	SW8270E
Benzyl butyl phthalate	ND	4.8	1.2	ug/L	1	01/13/25	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.8	1.3	ug/L	1	01/13/25	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	0.96	0.96	ug/L	1	01/13/25	MR	SW8270E
Carbazole	ND	4.8	3.6	ug/L	1	01/13/25	MR	SW8270E
Dibenzofuran	ND	4.8	1.4	ug/L	1	01/13/25	MR	SW8270E
Diethyl phthalate	ND	4.8	0.86	ug/L	1	01/13/25	MR	SW8270E
Dimethylphthalate	ND	4.8	1.5	ug/L	1	01/13/25	MR	SW8270E
Di-n-butylphthalate	ND	4.8	1.3	ug/L	1	01/13/25	MR	SW8270E
Di-n-octylphthalate	ND	4.8	1.2	ug/L	1	01/13/25	MR	SW8270E
Hexachloroethane	ND	0.96	0.96	ug/L	1	01/13/25	MR	SW8270E
Isophorone	ND	4.8	1.3	ug/L	1	01/13/25	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.8	1.6	ug/L	1	01/13/25	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.8	1.8	ug/L	1	01/13/25	MR	SW8270E
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	01/13/25	MR	SW8270E
Phenol	ND	0.96	0.86	ug/L	1	01/13/25	MR	SW8270E
QA/QC Surrogates								
% 2,4,6-Tribromophenol	88			%	1	01/13/25	MR	15 - 110 %
% 2-Fluorobiphenyl	62			%	1	01/13/25	MR	30 - 130 %
% 2-Fluorophenol	42			%	1	01/13/25	MR	15 - 110 %
% Nitrobenzene-d5	58			%	1	01/13/25	MR	30 - 130 %
% Phenol-d5	48			%	1	01/13/25	MR	15 - 110 %
% Terphenyl-d14	50			%	1	01/13/25	MR	30 - 130 %
Semivolatiles (SIM)								
2-Methylnaphthalene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)
Acenaphthene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)
Acenaphthylene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)
Anthracene	0.79	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benz(a)anthracene	2.5	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(a)pyrene	2.3	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(b)fluoranthene	2.0	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(ghi)perylene	1.3	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)
Benzo(k)fluoranthene	1.9	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Chrysene	2.5	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Fluoranthene	5.0	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Fluorene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	1.6	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Naphthalene	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	01/13/25	AW	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pentachlorophenol	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Phenanthrene	3.6	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pyrene	4.7	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pyridine	ND	0.48	0.48	ug/L	1	01/13/25	AW	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	79			%	1	01/13/25	AW	15 - 110 %	
% 2-Fluorobiphenyl	69			%	1	01/13/25	AW	30 - 130 %	
% 2-Fluorophenol	48			%	1	01/13/25	AW	15 - 110 %	
% Nitrobenzene-d5	69			%	1	01/13/25	AW	30 - 130 %	
% Phenol-d5	66			%	1	01/13/25	AW	15 - 110 %	
% Terphenyl-d14	58			%	1	01/13/25	AW	30 - 130 %	
1,4-dioxane									
1,4-dioxane	0.64	0.20	0.20	ug/l	1	01/13/25	AW	SW8270ESIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	95			%	1	01/13/25	AW	70 - 130 %	
Extraction for 1,4-Dioxane	Completed					01/10/25	G/G	SW8270ESIM	1

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

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

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

Comments:

*See attached

The regulatory hold time for Dissolved Oxygen is immediately. This DO was performed in the laboratory and may be considered outside of hold-time.

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

Pesticide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, surrogate recoveries could not be reported.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 24, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 24, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/08/25	14:15
Location Code:	TOUCHSTONE	Received by:	B	01/09/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS41678
Phoenix ID: CS41680

Project ID:
Client ID: 23MW-5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.001	0.001	mg/L	1	01/14/25	CPP	SW6010D
Aluminum	1.39	0.20	0.10	mg/L	10	01/15/25	CPP	SW6010D
Arsenic	ND	0.004	0.004	mg/L	1	01/14/25	CPP	SW6010D
Barium	0.105	0.002	0.001	mg/L	1	01/14/25	CPP	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	01/14/25	CPP	SW6010D
Calcium	189	0.10	0.10	mg/L	10	01/15/25	CPP	SW6010D
Cadmium	ND	0.001	0.0005	mg/L	1	01/14/25	CPP	SW6010D
Cobalt	ND	0.002	0.001	mg/L	1	01/14/25	CPP	SW6010D
Chromium	0.006	0.001	0.001	mg/L	1	01/14/25	CPP	SW6010D
Copper	0.008	0.005	0.001	mg/L	1	01/14/25	CPP	SW6010D
Silver (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Aluminum (Dissolved)	ND	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D
Arsenic (Dissolved)	0.006	0.004	0.004	mg/L	1	01/13/25	TH	SW6010D
Barium (Dissolved)	0.057	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Calcium (Dissolved)	518	0.11	0.11	mg/L	10	01/14/25	CPP	SW6010D
Cadmium (Dissolved)	ND	0.001	0.0005	mg/L	1	01/13/25	TH	SW6010D
Cobalt (Dissolved)	0.002	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Copper (Dissolved)	0.005	0.005	0.001	mg/L	1	01/13/25	TH	SW6010D
Iron (Dissolved)	0.022	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	01/17/25	ZT	SW7470A
Potassium (Dissolved)	15.2	1.1	0.11	mg/L	10	01/14/25	CPP	SW6010D
Magnesium (Dissolved)	49.0	0.01	0.01	mg/L	1	01/13/25	TH	SW6010D
Manganese (Dissolved)	0.651	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Sodium (Dissolved)	41.4	0.11	0.01	mg/L	1	01/13/25	TH	SW6010D
Nickel (Dissolved)	0.018	0.001	0.001	mg/L	1	01/13/25	TH	SW6010D
Lead (Dissolved)	0.003	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)	ND	0.005	0.01	mg/L	1	01/13/25	TH	SW6010D	
Selenium (Dissolved)	0.105	0.011	0.01	mg/L	1	01/13/25	TH	SW6010D	
Thallium (Dissolved)	ND	0.011	0.005	mg/L	5	01/14/25	ZT	SW7010	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	01/14/25	MGH	SW6020B	
Vanadium (Dissolved)	ND	0.002	0.001	mg/L	1	01/13/25	TH	SW6010D	
Zinc (Dissolved)	0.096	0.002	0.0012	mg/L	1	01/13/25	TH	SW6010D	
Iron	8.26	0.010	0.01	mg/L	1	01/14/25	CPP	SW6010D	
Mercury	ND	0.0002	0.00015	mg/L	1	01/14/25	ZT	SW7470A	
Potassium	18.4	1.0	0.10	mg/L	10	01/15/25	CPP	SW6010D	
Magnesium	31.5	0.010	0.01	mg/L	1	01/14/25	CPP	SW6010D	
Manganese	1.55	0.001	0.001	mg/L	1	01/14/25	CPP	SW6010D	
Sodium	43.9	0.10	0.01	mg/L	1	01/14/25	CPP	SW6010D	
Nickel	0.009	0.001	0.001	mg/L	1	01/14/25	CPP	SW6010D	
Lead	0.065	0.001	0.001	mg/L	1	01/14/25	CPP	SW6010D	
Antimony	ND	0.005	0.01	mg/L	1	01/14/25	CPP	SW6010D	
Selenium	ND	0.010	0.01	mg/L	1	01/14/25	CPP	SW6010D	
Thallium	ND	0.0005	0.0005	mg/L	5	01/10/25	MGH	SW6020B	
Vanadium	0.009	0.002	0.001	mg/L	1	01/14/25	CPP	SW6010D	
Zinc	0.034	0.004	0.0011	mg/L	1	01/14/25	CPP	SW6010D	
Alkalinity-CaCO3	341	20.0		mg/L	1	01/10/25	KG/EG	SM2320B-11	
Chloride	38.6	5.0	3	mg/L	1	01/09/25	DD/GD	E300.0	
Nitrate as Nitrogen	0.48	0.05	0.01	mg/L	1	01/09/25 19:46	DD/GD	E300.0	
pH	7.32	1.00	1.00	pH Units	1	01/10/25 00:53	JM/ER	SM4500-H B-11	1
Redox Potential	192			mV	1	01/10/25	JM/ER	SM2580B-09	1
Sulfate	1080	125	62.5	mg/L	25	01/11/25	DD/GD	E300.0	
Sulfide	ND	0.05	0.05	mg/L	1	01/14/25	GD	SM4500S-D-11	
Lab Filtration	Completed					01/10/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					01/17/25	MQ/GW	SW7470A	
Mercury Digestion	Completed					01/12/25	GW/AK	SW7470A	
PCB Extraction (LDL)	Completed					01/10/25	A/A	SW3510C	
Extraction for Pest (LDL)	Completed					01/10/25	A/A	SW3510C	
Semi-Volatile Extraction	Completed					01/09/25	Z/MQ	SW3520C	
Total Metals Digestion (GFAA)	Completed					01/13/25	AG	SM3113B-10	
Dissolved Metals Preparation	Completed					01/10/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					01/13/25	AG	SW3005A	
Total Metals Digestion	Completed					01/13/25	AG	SW3010A	
Total Metals Digestion MS	Completed					01/09/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed					01/17/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	7.89	1.44	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	8.02	2.14	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	7.83	1.87	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	7.94	7.83	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	5.22	2.12	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	26.1	7.65	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	26.1	9.89	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	7.81	0.731	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
ADONA	ND	7.89	0.553	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C

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HFPO-DA	ND		8.35	3.37	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND		2.09	1.88	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.09	1.08	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		20.9	4.17	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.18	2.23	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.09	1.65	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.09	0.825	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		20.9	4.17	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		2.02	1.38	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		1.99	0.950	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.09	0.919	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	4.35		1.85	0.491	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.09	0.783	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	1.62	J	2.03	0.971	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.09	0.919	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	16.4		2.09	0.741	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	1.91		1.91	0.710	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	17.8		2.09	0.365	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	13.6		8.35	0.345	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		2.01	0.898	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	1.66	J	2.09	0.543	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	10.9		1.94	0.856	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	22.5		2.09	0.439	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		1.96	0.794	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	17.8		4.18	0.240	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.09	0.721	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.09	0.773	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.09	1.18	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.72	0.522	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.18	0.386	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.18	0.261	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	70.7				%	1	01/20/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	67.9				%	1	01/20/25	AM	25 - 150 %	C
% d7-N-MeFOSE	20.7				%	1	01/20/25	AM	25 - 150 %	C,3
% d9-N-EtFOSE	18.9				%	1	01/20/25	AM	25 - 150 %	C,3
% d-N-EtFOSA	9.09				%	1	01/20/25	AM	25 - 150 %	C,3
% d-N-MeFOSA	18.1				%	1	01/20/25	AM	25 - 150 %	C,3
% M2-4:2 FTS	200				%	1	01/20/25	AM	25 - 150 %	C,3
% M2-6:2 FTS	205				%	1	01/20/25	AM	25 - 200 %	C,3
% M2-8:2 FTS	97.7				%	1	01/20/25	AM	25 - 200 %	C
% M2PFTEDA	24.5				%	1	01/20/25	AM	10 - 150 %	C
% M3HFPO-DA	76.8				%	1	01/20/25	AM	25 - 150 %	C
% M3PFBS	101				%	1	01/20/25	AM	25 - 150 %	C
% M3PFHxS	101				%	1	01/20/25	AM	25 - 150 %	C
% M4PFHpA	92.7				%	1	01/20/25	AM	25 - 150 %	C
% M5PFHxA	108				%	1	01/20/25	AM	25 - 150 %	C
% M5PFPEA	94.6				%	1	01/20/25	AM	25 - 150 %	C
% M6PFDA	95.4				%	1	01/20/25	AM	25 - 150 %	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M7PFUDA	71.9			%	1	01/20/25	AM	25 - 150 %	C
% M8FOSA	76.2			%	1	01/20/25	AM	10 - 150 %	C
% M8PFOA	110			%	1	01/20/25	AM	25 - 150 %	C
% M8PFOS	104			%	1	01/20/25	AM	25 - 150 %	C
% M9PFNA	105			%	1	01/20/25	AM	25 - 150 %	C
% MPFBA	45.6			%	1	01/20/25	AM	25 - 150 %	C
% MPFDOA	44.9			%	1	01/20/25	AM	25 - 150 %	C
Polychlorinated Biphenyls									
PCB-1016	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1221	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1232	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1242	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1248	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1254	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1260	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1262	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
PCB-1268	ND	0.053	0.053	ug/L	1	01/13/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	84			%	1	01/13/25	SC	30 - 150 %	
% DCBP (Confirmation)	79			%	1	01/13/25	SC	30 - 150 %	
% TCMX	95			%	1	01/13/25	SC	30 - 150 %	
% TCMX (Confirmation)	87			%	1	01/13/25	SC	30 - 150 %	
Pesticides									
4,4' -DDD	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
4,4' -DDE	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
4,4' -DDT	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
a-BHC	ND	0.13	0.13	ug/L	5	01/13/25	AW	SW8081B	
Alachlor	ND	0.40	0.40	ug/L	5	01/13/25	AW	SW8081B	1
Aldrin	ND	0.008	0.008	ug/L	5	01/13/25	AW	SW8081B	
b-BHC	ND	0.027	0.027	ug/L	5	01/13/25	AW	SW8081B	
Chlordane	ND	1.6	1.6	ug/L	5	01/13/25	AW	SW8081B	
d-BHC	ND	0.13	0.13	ug/L	5	01/13/25	AW	SW8081B	
Dieldrin	ND	0.008	0.008	ug/L	5	01/13/25	AW	SW8081B	
Endosulfan I	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
Endosulfan II	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
Endrin	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
Endrin Aldehyde	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
Endrin ketone	ND	0.27	0.27	ug/L	5	01/13/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.13	0.13	ug/L	5	01/13/25	AW	SW8081B	
Heptachlor	ND	0.13	0.13	ug/L	5	01/13/25	AW	SW8081B	
Heptachlor epoxide	ND	0.13	0.13	ug/L	5	01/13/25	AW	SW8081B	
Methoxychlor	ND	0.53	0.53	ug/L	5	01/13/25	AW	SW8081B	
Toxaphene	ND	5.3	5.3	ug/L	5	01/13/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	Interference			%	5	01/13/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	73			%	5	01/13/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	121			%	5	01/13/25	AW	30 - 150 %	

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%TCMX (Surrogate Rec) (Confirmation)	108			%	5	01/13/25	AW	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Hexanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Acetone	ND	25	2.5	ug/L	1	01/10/25	MH	SW8260D	
Acrylonitrile	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromodichloromethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromoform	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromomethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	B
Carbon Disulfide	ND	5.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroform	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,2-Dichloroethene	76	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromochloromethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Hexachlorobutadiene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methyl ethyl ketone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methylene chloride	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrachloroethene	8.5	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND	2.5	2.5	ug/L	1	01/10/25	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Total Xylenes	ND	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
trans-1,2-Dichloroethene	1.2	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Trichloroethene	6.5	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Vinyl chloride	41	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	01/10/25	MH	70 - 130 %	
% Bromofluorobenzene	91			%	1	01/10/25	MH	70 - 130 %	
% Dibromofluoromethane	100			%	1	01/10/25	MH	70 - 130 %	
% Toluene-d8	99			%	1	01/10/25	MH	70 - 130 %	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.3	3.3	ug/L	1	01/13/25	MR	SW8270E	
1,2,4-Trichlorobenzene	ND	4.7	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,2-Dichlorobenzene	ND	2.4	1.3	ug/L	1	01/13/25	MR	SW8270E	
1,2-Diphenylhydrazine	ND	4.7	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,3-Dichlorobenzene	ND	2.4	1.4	ug/L	1	01/13/25	MR	SW8270E	
1,4-Dichlorobenzene	ND	2.4	1.4	ug/L	1	01/13/25	MR	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.7	1.3	ug/L	1	01/13/25	MR	SW8270E	1
2,4,5-Trichlorophenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
2,4,6-Trichlorophenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dichlorophenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dimethylphenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dinitrophenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
2,4-Dinitrotoluene	ND	4.7	1.9	ug/L	1	01/13/25	MR	SW8270E	
2,6-Dinitrotoluene	ND	4.7	1.5	ug/L	1	01/13/25	MR	SW8270E	
2-Chloronaphthalene	ND	4.7	1.3	ug/L	1	01/13/25	MR	SW8270E	
2-Chlorophenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
2-Methylphenol (o-cresol)	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
2-Nitroaniline	ND	4.7	1.9	ug/L	1	01/13/25	MR	SW8270E	
2-Nitrophenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3&4-Methylphenol (m&p-cresol)	ND	9.4	1.9	ug/L	1	01/13/25	MR	SW8270E	
3,3'-Dichlorobenzidine	ND	4.7	2.2	ug/L	1	01/13/25	MR	SW8270E	
3-Nitroaniline	ND	4.7	1.9	ug/L	1	01/13/25	MR	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
4-Bromophenyl phenyl ether	ND	4.7	1.4	ug/L	1	01/13/25	MR	SW8270E	
4-Chloro-3-methylphenol	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
4-Chloroaniline	ND	4.7	2.2	ug/L	1	01/13/25	MR	SW8270E	
4-Chlorophenyl phenyl ether	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
4-Nitroaniline	ND	4.7	1.9	ug/L	1	01/13/25	MR	SW8270E	
4-Nitrophenol	ND	0.94	0.94	ug/L	1	01/13/25	MR	SW8270E	
Acetophenone	ND	4.7	1.5	ug/L	1	01/13/25	MR	SW8270E	
Aniline	ND	4.7	3.3	ug/L	1	01/13/25	MR	SW8270E	
Benzidine	ND	4.7	2.8	ug/L	1	01/13/25	MR	SW8270E	
Benzoic acid	ND	47	9.4	ug/L	1	01/13/25	MR	SW8270E	
Benzyl butyl phthalate	ND	4.7	1.2	ug/L	1	01/13/25	MR	SW8270E	
Bis(2-chloroethoxy)methane	ND	4.7	1.3	ug/L	1	01/13/25	MR	SW8270E	
Bis(2-chloroethyl)ether	ND	0.94	0.85	ug/L	1	01/13/25	MR	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.94	0.94	ug/L	1	01/13/25	MR	SW8270E	
Carbazole	ND	4.7	3.6	ug/L	1	01/13/25	MR	SW8270E	
Dibenzofuran	ND	4.7	1.4	ug/L	1	01/13/25	MR	SW8270E	
Diethyl phthalate	ND	4.7	0.85	ug/L	1	01/13/25	MR	SW8270E	
Dimethylphthalate	ND	4.7	1.5	ug/L	1	01/13/25	MR	SW8270E	
Di-n-butylphthalate	ND	4.7	1.3	ug/L	1	01/13/25	MR	SW8270E	
Di-n-octylphthalate	ND	4.7	1.2	ug/L	1	01/13/25	MR	SW8270E	
Hexachloroethane	ND	0.94	0.94	ug/L	1	01/13/25	MR	SW8270E	
Isophorone	ND	4.7	1.3	ug/L	1	01/13/25	MR	SW8270E	
N-Nitrosodi-n-propylamine	ND	4.7	1.5	ug/L	1	01/13/25	MR	SW8270E	
N-Nitrosodiphenylamine	ND	4.7	1.8	ug/L	1	01/13/25	MR	SW8270E	
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	01/13/25	MR	SW8270E	
Phenol	ND	2.0	1.6	ug/L	1	01/13/25	MR	SW8270E	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	76			%	1	01/13/25	MR	15 - 110 %	
% 2-Fluorobiphenyl	49			%	1	01/13/25	MR	30 - 130 %	
% 2-Fluorophenol	42			%	1	01/13/25	MR	15 - 110 %	
% Nitrobenzene-d5	63			%	1	01/13/25	MR	30 - 130 %	
% Phenol-d5	45			%	1	01/13/25	MR	15 - 110 %	
% Terphenyl-d14	17			%	1	01/13/25	MR	30 - 130 %	3
Semivolatiles (SIM)									
2-Methylnaphthalene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Acenaphthene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Acenaphthylene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Anthracene	0.54	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Benz(a)anthracene	1.9	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Benzo(a)pyrene	2.3	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Benzo(b)fluoranthene	2.0	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Benzo(ghi)perylene	1.4	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Benzo(k)fluoranthene	1.7	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Chrysene	2.0	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Fluoranthene	4.0	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Fluorene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	1.7	0.02	0.02	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Naphthalene	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Nitrobenzene	ND	0.38	0.38	ug/L	1	01/13/25	AW	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pentachlorophenol	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Phenanthrene	2.1	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pyrene	3.8	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
Pyridine	ND	0.47	0.47	ug/L	1	01/13/25	AW	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	70			%	1	01/13/25	AW	15 - 110 %	
% 2-Fluorobiphenyl	55			%	1	01/13/25	AW	30 - 130 %	
% 2-Fluorophenol	49			%	1	01/13/25	AW	15 - 110 %	
% Nitrobenzene-d5	73			%	1	01/13/25	AW	30 - 130 %	
% Phenol-d5	59			%	1	01/13/25	AW	15 - 110 %	
% Terphenyl-d14	21			%	1	01/13/25	AW	30 - 130 %	3
1,4-dioxane									
1,4-dioxane	0.23	0.20	0.20	ug/l	1	01/13/25	AW	SW8270ESIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	86			%	1	01/13/25	AW	70 - 130 %	
Extraction for 1,4-Dioxane	Completed					01/10/25	G/G	SW8270ESIM	1

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

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

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

Comments:

*See attached

The regulatory hold time for Dissolved Oxygen is immediately. This DO was performed in the laboratory and may be considered outside of hold-time.

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

Pesticide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, surrogate recoveries could not be reported.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 24, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 24, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/08/25	
Location Code:	TOUCHSTONE	Received by:	B	01/09/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS41678
Phoenix ID: CS41681

Project ID:
Client ID: PFAS FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (40) by EPA 1633	Completed					01/17/25	AM	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633									
11Cl-PF3OUdS	ND	6.89	1.26	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	8.59	7.00	1.87	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	6.84	1.63	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	6.93	6.84	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	4.56	1.85	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	22.8	6.68	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	22.8	8.64	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	6.82	0.638	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
ADONA	ND	6.89	0.483	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND	7.30	2.95	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND	1.82	1.64	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND	1.82	0.939	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND	18.2	3.64	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NFDHA	ND	3.65	1.95	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND	1.82	1.44	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND	1.82	0.720	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND	18.2	3.64	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.76	1.20	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.74	0.830	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.82	0.802	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	ND	1.61	0.429	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND	1.82	0.684	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	1.77	0.848	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND	1.82	0.802	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	ND	1.82	0.647	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.67	0.620	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	ND	1.82	0.319	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND	7.30	0.301	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND	1.75	0.784	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND	1.82	0.474	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	ND	1.70	0.748	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	ND	1.82	0.383	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND	1.71	0.693	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	ND	3.65	0.210	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND	1.82	0.629	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND	1.82	0.675	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND	1.82	1.03	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFEESA	ND	3.25	0.456	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMBA	ND	3.65	0.337	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
PFMPA	ND	3.65	0.228	ng/L	1	01/20/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates									
% d3-N-MeFOSAA	113			%	1	01/20/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	117			%	1	01/20/25	AM	25 - 150 %	C
% d7-N-MeFOSE	82.7			%	1	01/20/25	AM	25 - 150 %	C
% d9-N-EtFOSE	71.2			%	1	01/20/25	AM	25 - 150 %	C
% d-N-EtFOSA	77.3			%	1	01/20/25	AM	25 - 150 %	C
% d-N-MeFOSA	87.8			%	1	01/20/25	AM	25 - 150 %	C
% M2-4:2 FTS	99.3			%	1	01/20/25	AM	25 - 150 %	C
% M2-6:2 FTS	101			%	1	01/20/25	AM	25 - 200 %	C
% M2-8:2 FTS	97.4			%	1	01/20/25	AM	25 - 200 %	C
% M2PFTEDA	77.0			%	1	01/20/25	AM	10 - 150 %	C
% M3HFPO-DA	90.1			%	1	01/20/25	AM	25 - 150 %	C
% M3PFBS	120			%	1	01/20/25	AM	25 - 150 %	C
% M3PFHxS	128			%	1	01/20/25	AM	25 - 150 %	C
% M4PFHpA	112			%	1	01/20/25	AM	25 - 150 %	C
% M5PFHxA	121			%	1	01/20/25	AM	25 - 150 %	C
% M5PFPEA	64.0			%	1	01/20/25	AM	25 - 150 %	C
% M6PFDA	124			%	1	01/20/25	AM	25 - 150 %	C
% M7PFUDA	119			%	1	01/20/25	AM	25 - 150 %	C
% M8FOSA	119			%	1	01/20/25	AM	10 - 150 %	C
% M8PFOA	111			%	1	01/20/25	AM	25 - 150 %	C
% M8PFOS	115			%	1	01/20/25	AM	25 - 150 %	C
% M9PFNA	114			%	1	01/20/25	AM	25 - 150 %	C
% MPFBA	3.30			%	1	01/20/25	AM	25 - 150 %	C,3
% MPFDOA	114			%	1	01/20/25	AM	25 - 150 %	C

Project ID:

Phoenix I.D.: CS41681

Client ID: PFAS FIELD BLANK

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

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

*See attached

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 24, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 24, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/08/25	
Location Code:	TOUCHSTONE	Received by:	B	01/09/25	15:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS41678
Phoenix ID: CS41682

Project ID:
Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,1-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,3-Trichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	1.0	0.50	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dibromoethane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
2-Hexanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
4-Methyl-2-pentanone	ND	5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	

Project ID:

Phoenix I.D.: CS41682

Client ID: FIELD BLANK

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND		25	2.5	ug/L	1	01/10/25	MH	SW8260D	
Acrylonitrile	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Benzene	ND		0.70	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromobenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromochloromethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromodichloromethane	ND		0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromoform	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Bromomethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	B
Carbon Disulfide	ND		5.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chlorobenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloroform	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Chloromethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromochloromethane	ND		0.50	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dibromomethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Ethylbenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Hexachlorobutadiene	ND		0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
m&p-Xylene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methyl ethyl ketone	ND		5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Methylene chloride	2.2	S	1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
Naphthalene	ND		1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
o-Xylene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Styrene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrachloroethene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND		2.5	2.5	ug/L	1	01/10/25	MH	SW8260D	1
Toluene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Total Xylenes	ND		1.0	1.0	ug/L	1	01/10/25	MH	SW8260D	
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	01/10/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		5.0	2.5	ug/L	1	01/10/25	MH	SW8260D	
Trichloroethene	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
Vinyl chloride	ND		1.0	0.25	ug/L	1	01/10/25	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	99				%	1	01/10/25	MH	70 - 130 %	
% Bromofluorobenzene	92				%	1	01/10/25	MH	70 - 130 %	
% Dibromofluoromethane	99				%	1	01/10/25	MH	70 - 130 %	

Ver 1

Project ID:

Phoenix I.D.: CS41682

Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99			%	1	01/10/25	MH	70 - 130 %

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

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

Comments:

TRIP BLANK INCLUDED.

S - Laboratory solvent, contamination is possible.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

January 24, 2025

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

NY # 11301

QA/QC Report

January 24, 2025

QA/QC Data

SDG I.D.: GCS41678

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 765977 (mg/L), QC Sample No: CS40459 (CS41678, CS41679, CS41680)													
Thallium (Dissolved)	BRL	0.002	<0.0005	<0.002	NC	91.4			84.7			75 - 125	20
QA/QC Batch 766106 (mg/L), QC Sample No: CS41651 (CS41678, CS41679, CS41680)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	103			98.2			75 - 125	20
QA/QC Batch 766921 (mg/L), QC Sample No: CS44957 (CS41678, CS41679, CS41680)													
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0002	NC	104			101			75 - 125	20
QA/QC Batch 766194 (mg/L), QC Sample No: CS41543 (CS41678, CS41679)													
ICP Metals - Aqueous													
Aluminum	BRL	0.020	<0.020	<0.020	NC	94.1	96.6	2.6	101	101	0.0	80 - 120	20
Antimony	BRL	0.005	<0.005	<0.005	NC	100	102	2.0	104	103	1.0	70 - 130	30
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.2	99.3	1.1	102	101	1.0	80 - 120	20
Barium	BRL	0.002	0.049	0.048	2.10	99.4	101	1.6	103	102	1.0	80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	100	102	2.0	104	103	1.0	80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.8	100	1.2	101	101	0.0	80 - 120	20
Calcium	BRL	0.010	40.9	39.9	2.50	99.7	101	1.3	NC	NC	NC	80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	99.4	99.9	0.5	102	101	1.0	80 - 120	20
Cobalt	BRL	0.002	<0.002	<0.002	NC	99.5	100	0.5	103	102	1.0	80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	98.0	100	2.0	105	105	0.0	80 - 120	20
Iron	BRL	0.010	<0.010	0.010	NC	99.8	101	1.2	102	102	0.0	80 - 120	20
Lead	BRL	0.002	<0.001	<0.001	NC	99.1	101	1.9	104	103	1.0	80 - 120	20
Magnesium	BRL	0.010	7.23	7.05	2.50	99.1	101	1.9	NC	NC	NC	80 - 120	20
Manganese	BRL	0.001	<0.001	<0.001	NC	101	103	2.0	105	104	1.0	80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	102	104	1.9	106	105	0.9	80 - 120	20
Potassium	BRL	0.1	6.0	6.0	0	93.6	96.8	3.4	98.8	107	8.0	80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	97.6	98.3	0.7	99.7	99.1	0.6	80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	97.2	98.8	1.6	103	102	1.0	70 - 130	30
Sodium	BRL	0.10	61.9	61.2	1.10	97.2	101	3.8	NC	NC	NC	80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	99.1	101	1.9	103	102	1.0	80 - 120	20
Zinc	BRL	0.004	0.004	0.004	NC	96.9	98.7	1.8	102	102	0.0	80 - 120	20
QA/QC Batch 765978 (mg/L), QC Sample No: CS41598 (CS41678, CS41679, CS41680)													
ICP Metals - Dissolved													
Aluminum	BRL	0.011	0.048	0.047	NC	90.4	96.9	6.9	108			80 - 120	20
Antimony	BRL	0.005	<0.005	<0.005	NC	92.8	92.3	0.5	89.7			70 - 130	30
Arsenic	BRL	0.004	<0.004	<0.004	NC	91.9	90.1	2.0	87.7			80 - 120	20
Barium	BRL	0.002	0.072	0.072	0	91.5	90.1	1.5	87.9			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	97.0	96.5	0.5	89.8			80 - 120	20
Cadmium	BRL	0.001	0.003	0.003	NC	89.8	88.6	1.3	83.9			80 - 120	20
Calcium	BRL	0.01	49.5	49.7	0.40	91.7	90.8	1.0	NC			80 - 120	20
Chromium	BRL	0.001	0.001	0.001	NC	93.3	91.8	1.6	87.8			80 - 120	20
Cobalt	BRL	0.001	<0.001	<0.001	NC	92.3	90.8	1.6	89.7			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	94.2	93.7	0.5	101			80 - 120	20
Iron	BRL	0.011	<0.011	<0.011	NC	93.1	92.7	0.4	88.4			80 - 120	20

QA/QC Data

SDG I.D.: GCS41678

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Lead	BRL	0.002	<0.002	<0.002	NC	91.4	90.0	1.5	94.7			80 - 120	20
Magnesium	BRL	0.01	9.42	9.45	0.30	92.2	90.4	2.0	NC			80 - 120	20
Manganese	BRL	0.001	0.007	0.007	0	93.5	92.4	1.2	88.8			80 - 120	20
Nickel	BRL	0.001	1.12	1.13	0.90	95.6	93.3	2.4	86.8			80 - 120	20
Potassium	BRL	0.1	28	30	6.90	89.4	89.0	0.4	NC			80 - 120	20
Selenium	BRL	0.011	<0.011	<0.011	NC	93.9	92.3	1.7	88.3			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	92.6	90.7	2.1	95.9			70 - 130	30
Sodium	BRL	0.2	893	846	5.40	104	108	3.8	NC			80 - 120	20
Vanadium	BRL	0.002	0.004	0.004	NC	92.9	91.7	1.3	87.5			80 - 120	20
Zinc	BRL	0.002	0.064	0.064	0	91.9	90.6	1.4	89.8			80 - 120	20
QA/QC Batch 766195 (mg/L), QC Sample No: CS42264 (CS41680)													
ICP Metals - Aqueous													
Aluminum	BRL	0.020	4.52	4.15	8.50	94.7	95.0	0.3	NC			80 - 120	20
Antimony	BRL	0.005	<0.005	<0.005	NC	99.2	100	0.8	100			70 - 130	30
Arsenic	BRL	0.004	<0.004	<0.004	NC	96.9	97.7	0.8	99.3			80 - 120	20
Barium	BRL	0.002	0.115	0.114	0.90	99.9	100	0.1	102			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	100	101	1.0	101			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.4	98.9	0.5	96.8			80 - 120	20
Calcium	BRL	0.010	70.3	69.8	0.70	99.9	100	0.1	NC			80 - 120	20
Chromium	BRL	0.001	0.007	0.008	13.3	98.8	99.2	0.4	98.6			80 - 120	20
Cobalt	BRL	0.002	0.006	0.006	NC	100	100	0.0	99.1			80 - 120	20
Copper	BRL	0.005	0.009	0.008	NC	99.8	100	0.2	102			80 - 120	20
Iron	BRL	0.010	10.8	10.7	0.90	102	100	2.0	NC			80 - 120	20
Lead	BRL	0.001	0.002	0.002	NC	99.3	100	0.7	99.7			80 - 120	20
Magnesium	BRL	0.010	17.1	16.9	1.20	103	104	1.0	NC			80 - 120	20
Manganese	BRL	0.001	1.51	1.50	0.70	99.8	101	1.2	98.7			80 - 120	20
Nickel	BRL	0.001	0.007	0.007	0	99.0	99.5	0.5	98.3			80 - 120	20
Potassium	BRL	0.1	5.9	5.9	0	102	101	1.0	116			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	93.0	93.9	1.0	93.6			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	97.7	98.1	0.4	99.8			70 - 130	30
Sodium	BRL	0.10	50.3	49.6	1.40	98.7	99.3	0.6	NC			80 - 120	20
Vanadium	BRL	0.002	0.011	0.012	8.70	98.7	99.0	0.3	100			80 - 120	20
Zinc	BRL	0.004	0.020	0.021	4.90	96.3	96.9	0.6	97.8			80 - 120	20
QA/QC Batch 765770 (mg/L), QC Sample No: CS40560 5X (CS41678, CS41679, CS41680)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	107	107	0.0	99.6			80 - 120	20
QA/QC Batch 766191 (mg/L), QC Sample No: CS41692 2X (CS41678, CS41679, CS41680)													
ICP Metals MS - Dissolved													
Thallium	BRL	0.0006	<0.0003	<0.0006	NC	89.2	92.3	3.4	89.0			80 - 120	20

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

NY # 11301

QA/QC Report

January 24, 2025

QA/QC Data

SDG I.D.: GCS41678

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 765860 (PH), QC Sample No: CS41212 (CS41678)													
pH			7.77	7.74	0.40	100						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 765963 (mg/L), QC Sample No: CS41315 (CS41678, CS41679, CS41680)													
Alkalinity-CaCO3	BRL	5.00	41	42	NC	92.0						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 765861 (PH), QC Sample No: CS41679 (CS41679, CS41680)													
pH			7.05	7.03	0.30	101						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 765862 (mV), QC Sample No: CS41679 (CS41679, CS41680)													
Redox Potential			173	170	NC							75 - 125	30
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 766369 (mg/L), QC Sample No: CS43530 (CS41678, CS41679, CS41680)													
Sulfide	BRL	0.05	0.05	0.06	NC	92.6			86.7			90 - 110	20
QA/QC Batch 765999 (mg/L), QC Sample No: CS41180 (CS41678, CS41679, CS41680)													
Chloride	BRL	5.0	16.7	16.4	NC	93.2			94.3			90 - 110	20
Nitrate as Nitrogen	BRL	0.05	<0.05	<0.05	NC	95.7			92.8			90 - 110	20
Sulfate	BRL	5.0	52.0	52.0	0	95.1			101			90 - 110	20
QA/QC Batch 766305 (mg/L), QC Sample No: CS42622 (CS41678, CS41679, CS41680)													
Chloride	BRL	5.0	12.3	11.2	NC	91.3			95.6			90 - 110	20
Nitrate as Nitrogen	BRL	0.05	<0.05	<0.05	NC	102			98.9			90 - 110	20
Sulfate	BRL	5.0	<3.0	<5.0	NC	91.0			99.1			90 - 110	20

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QA/QC Report

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QA/QC Data

SDG I.D.: GCS41678

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 767942 (ng/L), QC Sample No: CS41678 (CS41678, CS41679, CS41680, CS41681)											
PFOA & PFOS											
11Cl-PF3OUdS	ND	7.56	160	135					50 - 150		I
3:3FTCA	ND	5.00	97.2	131					50 - 150		
4:2FTS	ND	7.50	108	115					50 - 150		
5:3FTCA	ND	25.0	123	120					50 - 150		
6:2FTS	ND	7.60	93.7	96.8					50 - 150		
7:3FTCA	ND	25.0	127	120					50 - 150		
8:2FTS	ND	7.68	117	109					50 - 150		
9Cl-PF3ONS	ND	7.48	192	169					50 - 150		I
ADONA	ND	7.56	210	182					50 - 150		I
FOSA	ND	2.00	99.3	91.3					50 - 150		
HFPO-DA	ND	8.00	137	129					50 - 150		
NEtFOSA	ND	2.00	109	99.7					50 - 150		
NEtFOSAA	ND	2.00	116	123					50 - 150		
NEtFOSE	ND	20.0	110	123					50 - 150		
NFDHA	ND	4.00	90.8	110					50 - 150		
NMeFOSA	ND	2.00	119	111					50 - 150		
NMeFOSAA	ND	2.00	116	110					50 - 150		
NMeFOSE	ND	20.0	116	119					50 - 150		
PFBA	ND	8.00	93.5	101					50 - 150		
PFBS	ND	1.77	108	110					50 - 150		
PFDA	ND	2.00	97.3	91.1					50 - 150		
PFDoA	ND	2.00	97.3	121					50 - 150		
PFDoDS	ND	1.94	71.3	64.6					50 - 150		
PFDS	ND	1.93	96.7	98.7					50 - 150		
PFEESA	ND	3.56	110	101					50 - 150		
PFHpA	ND	2.00	131	118					50 - 150		
PFHpS	ND	1.91	96.5	95.8					50 - 150		
PFHxA	ND	2.00	109	107					50 - 150		
PFHxS	ND	1.83	110	114					50 - 150		
PFMBA	ND	4.00	130	111					50 - 150		
PFMPA	ND	4.00	19.4	28.1					50 - 150		I
PFNA	ND	2.00	91.2	81.2					50 - 150		
PFNS	ND	1.92	109	98.6					50 - 150		
PFOA	ND	2.00	94.7	88.0					50 - 150		
PFOS	ND	1.86	101	105					50 - 150		
PFPeA	ND	4.00	109	109					50 - 150		
PFPeS	ND	1.88	109	101					50 - 150		
PFTA	ND	2.00	103	95.7					50 - 150		
PFTrDA	ND	2.00	163	187					50 - 150		I
PFUnA	ND	2.00	95.2	124					50 - 150		
% d3-N-MeFOSAA	113		103	86.6					25 - 150		

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% d5-N-EtFOSAA	119		105	94.0					25 - 150		
% M2-4:2 FTS	104		93.9	86.7					25 - 150		
% M2-6:2 FTS	104		98.3	89.8					25 - 200		
% M2-8:2 FTS	96.7		90.6	86.6					25 - 200		
% M2PFTEDA	74.0		53.8	48.4					10 - 150		
% M3HFPO-DA	65.3		56.7	67.9					25 - 150		
% M3PFBS	123		109	111					25 - 150		
% M3PFHxS	126		112	108					25 - 150		
% M4PFHpA	115		87.4	102					25 - 150		
% M5PFHxA	118		98.2	107					25 - 150		
% M5PFPEA	73.0		69.9	99.4					25 - 150		
% M6PFDA	110		103	119					25 - 150		
% M7PFUDA	104		99.3	93.7					25 - 150		
% M8FOSA	114		106	94.4					10 - 150		
% M8PFOA	135		107	113					25 - 150		
% M8PFOS	117		109	95.0					25 - 150		
% M9PFNA	115		98.0	98.9					25 - 150		
% MPFBA	3.59		3.84	6.31					25 - 150		l,s
% MPFDOA	101		89.5	87.1					25 - 150		

Comment:

LCS/LCSD are spiked per method at different levels, no RPD is provided.

QA/QC Batch 765911 (ug/l), QC Sample No: CS40723 (CS41678, CS41679, CS41680)

1,4dioxane - Ground Water

1,4-dioxane (ISO)	ND	0.20	115	113	1.8				70 - 130	20	
% 1,4-dioxane-d8 (ISO)	85	%	71	89	22.5				70 - 130	20	r

QA/QC Batch 765951 (ug/L), QC Sample No: CS40379 (CS41678, CS41679, CS41680)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.050	87	81	7.1				40 - 140	20	
PCB-1221	ND	0.050							40 - 140	20	
PCB-1232	ND	0.050							40 - 140	20	
PCB-1242	ND	0.050							40 - 140	20	
PCB-1248	ND	0.050							40 - 140	20	
PCB-1254	ND	0.050							40 - 140	20	
PCB-1260	ND	0.050	90	84	6.9				40 - 140	20	
PCB-1262	ND	0.050							40 - 140	20	
PCB-1268	ND	0.050							40 - 140	20	
% DCBP (Surrogate Rec)	90	%	90	81	10.5				30 - 150	20	
% DCBP (Surrogate Rec) (Confirm	86	%	83	80	3.7				30 - 150	20	
% TCMX (Surrogate Rec)	72	%	80	91	12.9				30 - 150	20	
% TCMX (Surrogate Rec) (Confirm	73	%	81	84	3.6				30 - 150	20	

Comment:

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

QA/QC Batch 765952 (ug/L), QC Sample No: CS40379 (CS41678, CS41679, CS41680)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	67	81	18.9				40 - 140	20	
4,4' -DDE	ND	0.003	75	90	18.2				40 - 140	20	
4,4' -DDT	ND	0.003	70	85	19.4				40 - 140	20	
a-BHC	ND	0.002	66	81	20.4				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	54	64	16.9				40 - 140	20	
b-BHC	ND	0.002	68	82	18.7				40 - 140	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chlordane	ND	0.050	63	70	10.5				40 - 140	20	
d-BHC	ND	0.005	52	57	9.2				40 - 140	20	
Dieldrin	ND	0.002	72	85	16.6				40 - 140	20	
Endosulfan I	ND	0.005	63	68	7.6				40 - 140	20	
Endosulfan II	ND	0.005	75	92	20.4				40 - 140	20	
Endosulfan sulfate	ND	0.005	62	74	17.6				40 - 140	20	
Endrin	ND	0.005	71	83	15.6				40 - 140	20	
Endrin aldehyde	ND	0.005	64	78	19.7				40 - 140	20	
Endrin ketone	ND	0.005	79	100	23.5				40 - 140	20	r
g-BHC	ND	0.002	66	80	19.2				40 - 140	20	
Heptachlor	ND	0.005	64	77	18.4				40 - 140	20	
Heptachlor epoxide	ND	0.005	68	80	16.2				40 - 140	20	
Methoxychlor	ND	0.005	69	77	11.0				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	83	%	63	74	16.1				30 - 150	20	
% DCBP (Confirmation)	85	%	50	56	11.3				30 - 150	20	
% TCMX	73	%	55	66	18.2				30 - 150	20	
% TCMX (Confirmation)	71	%	56	65	14.9				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 765814 (ug/L), QC Sample No: CS40856 (CS41678, CS41679, CS41680)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	90	88	2.2				30 - 130	20	
1,2,4-Trichlorobenzene	ND	3.5	79	82	3.7				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	68	69	1.5				30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	88	84	4.7				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	65	64	1.6				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	65	64	1.6				30 - 130	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	54	57	5.4				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	96	93	3.2				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	98	91	7.4				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	96	95	1.0				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	99	99	0.0				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	98	95	3.1				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	107	102	4.8				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	103	100	3.0				30 - 130	20	
2-Chloronaphthalene	ND	3.5	86	83	3.6				30 - 130	20	
2-Chlorophenol	ND	1.0	69	71	2.9				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	82	85	3.6				30 - 130	20	
2-Nitroaniline	ND	3.5	144	137	5.0				30 - 130	20	l
2-Nitrophenol	ND	1.0	94	93	1.1				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	84	86	2.4				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	85	77	9.9				30 - 130	20	
3-Nitroaniline	ND	5.0	114	110	3.6				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	105	103	1.9				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	85	84	1.2				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	110	110	0.0				30 - 130	20	
4-Chloroaniline	ND	3.5	93	95	2.1				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	90	86	4.5				30 - 130	20	
4-Nitroaniline	ND	5.0	101	96	5.1				30 - 130	20	
4-Nitrophenol	ND	1.0	95	91	4.3				30 - 130	20	

QA/QC Data

SDG I.D.: GCS41678

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acetophenone	ND	3.5	73	75	2.7				30 - 130	20
Aniline	ND	3.5	62	64	3.2				30 - 130	20
Benzidine	ND	4.5	91	87	4.5				30 - 130	20
Benzoic acid	ND	10	98	99	1.0				30 - 130	20
Benzyl butyl phthalate	ND	1.5	101	96	5.1				30 - 130	20
Bis(2-chloroethoxy)methane	ND	3.5	84	85	1.2				30 - 130	20
Bis(2-chloroethyl)ether	ND	1.0	63	65	3.1				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	1.5	99	95	4.1				30 - 130	20
Carbazole	ND	5.0	91	90	1.1				30 - 130	20
Dibenzofuran	ND	3.5	97	92	5.3				30 - 130	20
Diethyl phthalate	ND	1.5	99	96	3.1				30 - 130	20
Dimethylphthalate	ND	1.5	98	94	4.2				30 - 130	20
Di-n-butylphthalate	ND	1.5	94	91	3.2				30 - 130	20
Di-n-octylphthalate	ND	1.5	104	99	4.9				30 - 130	20
Hexachloroethane	ND	3.5	70	70	0.0				30 - 130	20
Isophorone	ND	3.5	83	85	2.4				30 - 130	20
N-Nitrosodi-n-propylamine	ND	3.5	76	80	5.1				30 - 130	20
N-Nitrosodiphenylamine	ND	3.5	79	75	5.2				30 - 130	20
Pentachloronitrobenzene	ND	5.0	95	89	6.5				30 - 130	20
Phenol	ND	1.0	79	81	2.5				30 - 130	20
% 2,4,6-Tribromophenol	81	%	94	95	1.1				15 - 110	20
% 2-Fluorobiphenyl	70	%	82	80	2.5				30 - 130	20
% 2-Fluorophenol	57	%	63	62	1.6				15 - 110	20
% Nitrobenzene-d5	72	%	73	76	4.0				30 - 130	20
% Phenol-d5	65	%	74	75	1.3				15 - 110	20
% Terphenyl-d14	76	%	87	84	3.5				30 - 130	20

Comment:

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

QA/QC Batch 765814 (ug/L), QC Sample No: CS40856 (CS41678, CS41679, CS41680)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	75	67	11.3				30 - 130	20
Acenaphthene	ND	0.50	85	76	11.2				30 - 130	20
Acenaphthylene	ND	0.50	74	65	12.9				30 - 130	20
Anthracene	ND	0.50	84	73	14.0				30 - 130	20
Benz(a)anthracene	ND	0.50	82	71	14.4				30 - 130	20
Benzo(a)pyrene	ND	0.50	82	69	17.2				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	92	79	15.2				30 - 130	20
Benzo(ghi)perylene	ND	0.50	80	72	10.5				30 - 130	20
Benzo(k)fluoranthene	ND	0.50	91	80	12.9				30 - 130	20
Chrysene	ND	0.50	84	73	14.0				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	87	77	12.2				30 - 130	20
Fluoranthene	ND	0.50	85	75	12.5				30 - 130	20
Fluorene	ND	0.50	83	73	12.8				30 - 130	20
Hexachlorobenzene	ND	0.50	85	74	13.8				30 - 130	20
Hexachlorobutadiene	ND	0.50	66	61	7.9				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50	35	33	5.9				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	82	72	13.0				30 - 130	20
Naphthalene	ND	0.50	71	64	10.4				30 - 130	20
Nitrobenzene	ND	0.50	73	67	8.6				30 - 130	20
N-Nitrosodimethylamine	ND	0.05	69	57	19.0				30 - 130	20
Pentachlorophenol	ND	0.50	94	83	12.4				30 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenanthrene	ND	0.50	83	73	12.8				30 - 130	20
Pyrene	ND	0.50	85	75	12.5				30 - 130	20
Pyridine	ND	0.50	48	46	4.3				30 - 130	20
% 2,4,6-Tribromophenol	70	%	87	76	13.5				15 - 110	20
% 2-Fluorobiphenyl	75	%	75	68	9.8				30 - 130	20
% 2-Fluorophenol	66	%	58	53	9.0				15 - 110	20
% Nitrobenzene-d5	73	%	72	66	8.7				30 - 130	20
% Phenol-d5	80	%	78	70	10.8				15 - 110	20
% Terphenyl-d14	84	%	86	75	13.7				30 - 130	20
QA/QC Batch 765989 (ug/L), QC Sample No: CS41682 (CS41678, CS41679, CS41680, CS41682)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	99	105	5.9				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	95	92	3.2				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	103	104	1.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	98	101	3.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	103	101	2.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	101	100	1.0				70 - 130	30
1,1-Dichloropropene	ND	1.0	89	94	5.5				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	99	102	3.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	94	95	1.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	97	104	7.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	99	104	4.9				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	104	108	3.8				70 - 130	30
1,2-Dibromoethane	ND	1.0	99	101	2.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	98	101	3.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	96	101	5.1				70 - 130	30
1,2-Dichloropropane	ND	1.0	97	102	5.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	97	101	4.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	98	102	4.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	100	103	3.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	99	104	4.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	92	92	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	97	102	5.0				70 - 130	30
2-Hexanone	ND	5.0	92	93	1.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	98	103	5.0				70 - 130	30
4-Chlorotoluene	ND	1.0	102	105	2.9				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	96	94	2.1				70 - 130	30
Acetone	ND	5.0	106	103	2.9				70 - 130	30
Acrylonitrile	ND	5.0	101	99	2.0				70 - 130	30
Benzene	ND	0.70	96	100	4.1				70 - 130	30
Bromobenzene	ND	1.0	98	104	5.9				70 - 130	30
Bromochloromethane	ND	1.0	104	105	1.0				70 - 130	30
Bromodichloromethane	ND	0.50	96	101	5.1				70 - 130	30
Bromoform	ND	1.0	101	101	0.0				70 - 130	30
Bromomethane	0.82 J	1.0	104	107	2.8				70 - 130	30
Carbon Disulfide	ND	1.0	98	96	2.1				70 - 130	30
Carbon tetrachloride	ND	1.0	90	84	6.9				70 - 130	30
Chlorobenzene	ND	1.0	99	101	2.0				70 - 130	30
Chloroethane	ND	1.0	96	97	1.0				70 - 130	30
Chloroform	ND	1.0	102	104	1.9				70 - 130	30
Chloromethane	ND	1.0	103	102	1.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	98	98	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCS41678

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	0.40	97	99	2.0				70 - 130	30
Dibromochloromethane	ND	0.50	100	103	3.0				70 - 130	30
Dibromomethane	ND	1.0	94	99	5.2				70 - 130	30
Dichlorodifluoromethane	ND	1.0	80	79	1.3				70 - 130	30
Ethylbenzene	ND	1.0	99	101	2.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	84	93	10.2				70 - 130	30
Isopropylbenzene	ND	1.0	96	103	7.0				70 - 130	30
m&p-Xylene	ND	1.0	100	102	2.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	95	98	3.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	94	2.1				70 - 130	30
Methylene chloride	ND	1.0	100	101	1.0				70 - 130	30
Naphthalene	ND	1.0	112	114	1.8				70 - 130	30
n-Butylbenzene	ND	1.0	97	102	5.0				70 - 130	30
n-Propylbenzene	ND	1.0	97	100	3.0				70 - 130	30
o-Xylene	ND	1.0	101	104	2.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	97	102	5.0				70 - 130	30
sec-Butylbenzene	ND	1.0	96	101	5.1				70 - 130	30
Styrene	ND	1.0	103	107	3.8				70 - 130	30
tert-Butylbenzene	ND	1.0	96	100	4.1				70 - 130	30
Tetrachloroethene	ND	1.0	94	96	2.1				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	94	92	2.2				70 - 130	30
Toluene	ND	1.0	96	100	4.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	98	101	3.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	98	102	4.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	104	1.0				70 - 130	30
Trichloroethene	ND	1.0	92	99	7.3				70 - 130	30
Trichlorofluoromethane	ND	1.0	95	97	2.1				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	93	97	4.2				70 - 130	30
Vinyl chloride	ND	1.0	96	96	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	99	101	2.0				70 - 130	30
% Bromofluorobenzene	91	%	99	97	2.0				70 - 130	30
% Dibromofluoromethane	97	%	96	93	3.2				70 - 130	30
% Toluene-d8	102	%	96	97	1.0				70 - 130	30

Comment:

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
January 24, 2025

Friday, January 24, 2025

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCS41678 - TOUCHSTONE

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

*** No Data to Display ***

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

January 24, 2025

SDG I.D.: GCS41678

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

Temp 2.8 WCUP Cooler: Yes ☐ No ☐ Coolant: IPK ☐ ICE ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Pg of

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: Touchstone Environmental.
Address:
Project:
Report to:
Invoice to:
QUOTE # :
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Date: 1/8/25

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Client Sample Information - Identification: Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	GL Amber 8 oz. [ ] w/H3PO4 [ ] NAHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL NAOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is	
41678	23MW-3	GW	1/8/25	12:45					3	3	1			1			2
41679	23MW-6	↓	↓	11:50					3	3	1			1			2
41680	23MW-5	↓	↓	14:15					3	3	1			1			2
41681	PFAS Field Blank																1
41682	Field Blank								3								

Attached to COC

PFAS sealed plastic.

Relinquished by:	Accepted by:	Date:	Time:
		1/9/25	0915
		1/9/25	1522

Comments, Special Requirements or Regulations:

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

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

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
✓ Standard
* SURCHARGE APPLIES

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

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

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? ☐

60-66 Gcm GCS446678

- VOCs via EPA Method 8260C,
- SVOCs via EPA Method 8270,
- Pesticides via EPA Method 8081,
- PCBs via EPA Method 8082,
- TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010,
- PFAS compounds via EPA Method 1633,
- 1,4-Dioxane via EPA Method 8270 SIM
- pH,
- Dissolved Oxygen (DO),
- Oxidation Reduction Potential (ORP),
- Total Fe, Dissolved Fe,
- Total Mn, Dissolved Mn,
- Sulfate,
- Sulfide,
- Nitrate,
- Total Organic Carbon (TOC),
- Alkalinity,
- Chloride,
- Methane,
- Ethane,
- Ethene
- CO2.

GCS 41678

Krystal Delgado

From: Michael Lapman
Sent: Thursday, January 9, 2025 5:15 PM
To: Krystal Delgado
Cc: Lori Bailey
Subject: Re: Listed Analysis

Ok. Thank you.

Regards,
Michael Lapman
Sent from my iPhone

On Jan 9, 2025, at 5:12 PM, Krystal Delgado <KrystalD@phoenixlabs.com> wrote:

Hi Michael,

We did not receive bottles for Dissolved Oxygen, Methane, Ethane, Ethene, and CO2 that are listed on the attachment.

Thank you

Krystal Delgado
Sample Receiving- Second Shift Lead
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102 ext:369
FX: 860-645-0823
<image001.jpg>

<SKM_450i25011006000.pdf>

Sarah Bell

Subject: GCS41678

From: Michael Lapman <michael@phoenixlabs.com>
Sent: Wednesday, January 22, 2025 4:27 PM
To: Sarah Bell <sarah@phoenixlabs.com>
Subject: Re: They didn't ask for ASP B? GCS41678

They do need ASP B's for this one.

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
www.phoenixlabs.com

Bobbi Aloisa

From: Bobbi Aloisa
Sent: Monday, January 13, 2025 11:30 AM
To: Rachel Ataman; Michael Lapman; Bobbi Aloisa
Subject: No TOC Bottles received
Attachments: GCS41678-ChainofCustody-1.pdf

Good morning Rachel

On the attached chain, we did not receive bottles for Total Organic Carbon, and therefore can't run the test on any of these samples. If you have any questions please let me know

Thanks
Bobbi

Bobbi Aloisa
Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com

Temp 2.8 WCup Cooler: Yes ☐ No ☐ Coolant: IPK ☐ ICE ☐ No ☐

NY/NJ/PA CHAIN OF CUSTODY RECORD

Pg of

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: Touchstone Environmental. Project:
Address: Report to:
Invoice to:
QUOTE # :
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature Date: 1/8/25

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
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Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	GL Amber 8 oz [ ] w/H3PO4 [ ] NaHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	GL Amber 1000ml [ ] As is [ ] HCl	PL As is NP 250ml [ ] 250ml [ ] 1000ml	PL H2SO4 [ ] 500ml [ ] 1000ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is	
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41680	23MW-5	↓	↓	14:15						3	3	1			1		2
41681	PFAS Field Blank																2
41682	Field Blank									3							

Attached to COC

PFAS Solid plastic

Relinquished by:	Accepted by:	Date:	Time:
		1/9/25	0915
		1/9/25	1522

Comments, Special Requirements or Regulations:

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

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

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 4 Days*
☐ 5 Days*
☑ Standard
* SURCHARGE APPLIES

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

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

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? ☐

- VOCs via EPA Method 8260C,
- SVOCs via EPA Method 8270,
- Pesticides via EPA Method 8081,
- PCBs via EPA Method 8082,
- TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010,
- PFAS compounds via EPA Method 1633,
- 1,4-Dioxane via EPA Method 8270 SIM
- pH,
- Dissolved Oxygen (DO),
- Oxidation Reduction Potential (ORP),
- Total Fe, Dissolved Fe,
- Total Mn, Dissolved Mn,
- Sulfate,
- Sulfide,
- Nitrate,
- Total Organic Carbon (TOC),
- Alkalinity,
- Chloride,
- Methane,
- Ethane,
- Ethene
- CO2.

GCS 41678

Krystal Delgado

From:	Michael Lapman
Sent:	Thursday, January 9, 2025 5:15 PM
To:	Krystal Delgado
Cc:	Lori Bailey
Subject:	Re: Listed Analysis

Ok. Thank you.

Regards,
Michael Lapman
Sent from my iPhone

On Jan 9, 2025, at 5:12 PM, Krystal Delgado <KrystalD@phoenixlabs.com> wrote:

Hi Michael,

We did not receive bottles for Dissolved Oxygen, Methane, Ethane, Ethene, and CO2 that are listed on the attachment.

Thank you

Krystal Delgado
Sample Receiving- Second Shift Lead
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102 ext:369
FX: 860-645-0823
<image001.jpg>

<SKM_450i25011006000.pdf>

Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 01/23/2025
Client Project ID: GCS41678
York Project (SDG) No.: 25A0640

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 01/23/2025
Client Project ID: GCS41678
York Project (SDG) No.: 25A0640

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 13, 2025 and listed below. The project was identified as your project: **GCS41678**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25A0640-01	CS41678	Water	01/08/2025	01/13/2025
25A0640-02	CS41679	Water	01/08/2025	01/13/2025
25A0640-03	CS41680	Water	01/08/2025	01/13/2025
25A0640-04	CS41681	Water	01/08/2025	01/13/2025

General Notes for York Project (SDG) No.: 25A0640

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Date: 01/23/2025

Cassie L. Mosher
Laboratory Manager

[TOC_1]Sample Results[TOC]

Sample Information

[TOC_2]CS41678[TOC]

Client Sample ID: CS41678 **York Sample ID:** 25A0640-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 12:45 pm	01/13/2025

[TOC_3]PFAS Target compounds by LC/MS-MS[TOC]

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.83**		ng/L	0.456	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**13.4**		ng/L	0.340	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**8.54**		ng/L	0.689	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.43**		ng/L	0.660	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**19.2**		ng/L	0.408	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**6.80**		ng/L	0.796	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.992**	J	ng/L	0.505	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.728	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.10	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.854	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.718	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.670	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.767	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.00	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**13.8**		ng/L	0.223	3.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.854	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.883	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.28	1.87	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.28	7.38	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.99	7.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.320	7.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.485	3.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 14:46	AM

Sample Information

Client Sample ID: CS41678 **York Sample ID:** 25A0640-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 12:45 pm	01/13/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.08	3.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 14:46	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.243	3.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 14:46	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.359	3.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 14:46	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.738	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.74	7.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.13	7.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.34	7.34	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.679	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
919005-14-4	ADONA	ND		ng/L	0.514	7.34	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.903	1.88	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.835	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 14:46	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.97	4.85	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.11	24.3	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.19	24.3	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.87	19.4	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.53	1.94	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.87	19.4	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.75	1.94	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 14:46	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*99.2 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*105 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*93.8 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*109 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*125 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*111 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*81.7 %*	*25-150*

Sample Information

Client Sample ID: CS41678 **York Sample ID:** 25A0640-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 12:45 pm	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*67.1 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*48.1 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*7.07 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*107 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*85.9 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*100 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*87.8 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*92.6 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*186 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*97.9 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*94.1 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*211 %*	PFSu-H		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*67.7 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*44.8 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*69.4 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*63.9 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*63.0 %*			*25-150*						

Sample Information

[TOC_7]CS41679[TOC]

Client Sample ID: CS41679 **York Sample ID:** 25A0640-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 11:50 am	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**5.39**		ng/L	0.477	1.80	1	EPA 1633 Draft 3	01/17/2025 11:58	01/20/2025 15:02	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**40.4**		ng/L	0.355	2.03	1	EPA 1633 Draft 3	01/17/2025 11:58	01/20/2025 15:02	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**24.4**		ng/L	0.721	2.03	1	EPA 1633 Draft 3	01/17/2025 11:58	01/20/2025 15:02	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**4.37**		ng/L	0.690	1.86	1	EPA 1633 Draft 3	01/17/2025 11:58	01/20/2025 15:02	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: CS41679 **York Sample ID:** 25A0640-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 11:50 am	01/13/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	**Perfluorooctanoic acid (PFOA)**	**41.8**		ng/L	0.426	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**3.86**		ng/L	0.832	1.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.528	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.761	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.15	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.893	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.751	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.700	2.03	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.802	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.05	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**45.8**		ng/L	0.233	4.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.893	2.03	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**1.16**	J	ng/L	0.923	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.34	1.96	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.61	7.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.08	7.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**26.1**		ng/L	0.335	8.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.507	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:02	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.17	4.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:02	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.254	4.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:02	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.375	4.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:02	AM
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**0.780**	J	ng/L	0.771	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.82	7.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM

Sample Information

Client Sample ID: CS41679 **York Sample ID:** 25A0640-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 11:50 am	01/13/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.28	8.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.40	7.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.710	7.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
919005-14-4	ADONA	ND		ng/L	0.538	7.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.944	1.97	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.873	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:02	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.06	5.07	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.44	25.4	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.61	25.4	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.05	20.3	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.60	2.03	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.05	20.3	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.83	2.03	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:02	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*101 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*114 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*106 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*103 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*119 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*104 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*87.0 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*52.2 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*35.0 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*27.8 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*101 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*114 %*	*25-150*

Sample Information

Client Sample ID: CS41679 **York Sample ID:** 25A0640-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 11:50 am	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*91.7 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*77.8 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*76.7 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*124 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*76.2 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*99.6 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*166 %*	PFSu-H		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*49.4 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*31.6 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*76.7 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*30.1 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*39.3 %*			*25-150*						

Sample Information

[TOC_2]CS41680[TOC]

Client Sample ID: CS41680 **York Sample ID:** 25A0640-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 2:15 pm	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**4.35**		ng/L	0.491	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**17.8**		ng/L	0.365	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**16.4**		ng/L	0.741	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.91**		ng/L	0.710	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**22.5**		ng/L	0.439	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**10.9**		ng/L	0.856	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.66**	J	ng/L	0.543	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.783	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM

Sample Information

Client Sample ID: CS41680 **York Sample ID:** 25A0640-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 2:15 pm	01/13/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.18	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.919	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.773	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.721	2.09	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.825	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.08	2.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**17.8**		ng/L	0.240	4.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.919	2.09	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.950	1.99	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.38	2.02	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.83	7.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.14	8.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**13.6**		ng/L	0.345	8.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.522	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:18	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.23	4.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:18	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.261	4.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:18	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.386	4.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:18	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.794	1.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.87	7.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.37	8.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.44	7.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.731	7.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
919005-14-4	ADONA	ND		ng/L	0.553	7.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM

Sample Information

Client Sample ID: CS41680 **York Sample ID:** 25A0640-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 2:15 pm	01/13/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79780-39-5	*** Perfluorododecanesulfonic acid (PFDoS)**	**1.62**	J	ng/L	0.971	2.03	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.898	2.01	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:18	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.12	5.22	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.65	26.1	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.89	26.1	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.17	20.9	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.65	2.09	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.17	20.9	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.88	2.09	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:18	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*101 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*108 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*92.7 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*101 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*110 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*95.4 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*71.9 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*44.9 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*24.5 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*45.6 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*104 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*94.6 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*76.2 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*70.7 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*67.9 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*205 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*97.7 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*105 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*200 %*	PFSu-H	*25-150*

Sample Information

Client Sample ID: CS41680 **York Sample ID:** 25A0640-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 2:15 pm	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
936109-37-4	*Surrogate: d-N-MeFOSA*	*18.1 %*	PFSu-L		*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*9.09 %*	PFSu-L		*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*76.8 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*18.9 %*	PFSu-L		*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*20.7 %*	PFSu-L		*25-150*						

Sample Information

[TOC_2]CS41681[TOC]

Client Sample ID: CS41681 **York Sample ID:** 25A0640-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 3:00 pm	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.429	1.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.319	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.647	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.620	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.383	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.748	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.474	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.684	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.03	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.802	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.675	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.629	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.720	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM

Sample Information

Client Sample ID: CS41681 **York Sample ID:** 25A0640-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 3:00 pm	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	N-EtFOSAA	ND		ng/L	0.939	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.210	3.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.802	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.830	1.74	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.20	1.76	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.84	6.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
39108-34-4	**1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**8.59**		ng/L	1.87	7.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.301	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.456	3.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:34	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.95	3.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:34	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.228	3.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:34	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.337	3.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/17/2025 11:58	01/20/2025 15:34	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.693	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.63	6.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.95	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.26	6.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.638	6.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
919005-14-4	ADONA	ND		ng/L	0.483	6.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.848	1.77	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.784	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/17/2025 11:58	01/20/2025 15:34	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.85	4.56	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.68	22.8	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.64	22.8	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM

Sample Information

Client Sample ID: CS41681 **York Sample ID:** 25A0640-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25A0640	GCS41678	Water	January 8, 2025 3:00 pm	01/13/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ng/L	3.64	18.2	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.44	1.82	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.64	18.2	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.64	1.82	1	EPA 1633 Draft 3 Certifications:	01/17/2025 11:58	01/20/2025 15:34	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*120 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*121 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*112 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*128 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*111 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*124 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*119 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*114 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*77.0 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*3.30 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*115 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*64.0 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*119 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*113 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*117 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*101 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*97.4 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*114 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*99.3 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*87.8 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*77.3 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*90.1 %*		*25-150*
D9-NETPFOSA1	*Surrogate: d9-N-EtFOSE*	*71.2 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*82.7 %*		*25-150*

Analytical Batch Summary

_1Quality Batch Summary[TOC]

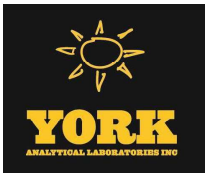
Batch ID: BA51036 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

YORK Sample ID	Client Sample ID	Preparation Date
25A0640-01	CS41678	01/17/25
25A0640-02	CS41679	01/17/25
25A0640-03	CS41680	01/17/25
25A0640-04	CS41681	01/17/25
BA51036-BLK1	Blank	01/17/25
BA51036-BLK2	Blank	01/17/25
BA51036-BS1	LCS	01/17/25
BA51036-BS2	LCS	01/17/25

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

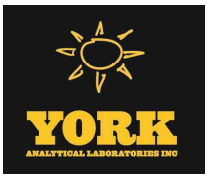
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51036 - EPA 1633 Prep											
Blank (BA51036-BLK1)									Prepared: 01/17/2025 Analyzed: 01/20/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*28.6*		*"*	*23.3*		*123*	*25-150*				
Surrogate: M5PFHxA	*29.4*		*"*	*25.0*		*118*	*25-150*				
Surrogate: M4PFHpA	*28.6*		*"*	*25.0*		*115*	*25-150*				
Surrogate: M3PFHxS	*29.9*		*"*	*23.7*		*126*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.7*		*"*	*25.0*		*135*	*25-150*				
Surrogate: M6PFDA	*13.7*		*"*	*12.5*		*110*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

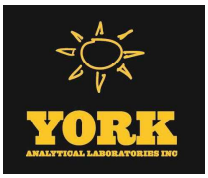
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51036 - EPA 1633 Prep											
Blank (BA51036-BLK1)									Prepared: 01/17/2025 Analyzed: 01/20/2025		
Surrogate: M7PFUdA	*13.0*		*ng/L*	*12.5*		*104*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.6*		*"*	*12.5*		*101*	*25-150*				
Surrogate: M2PFTeDA	*9.25*		*"*	*12.5*		*74.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.59*		*"*	*100*		*3.59*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*28.1*		*"*	*24.0*		*117*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*36.5*		*"*	*50.0*		*73.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.5*		*"*	*25.0*		*114*	*10-150*				
Surrogate: d3-N-MeFOSAA	*56.7*		*"*	*50.0*		*113*	*25-150*				
Surrogate: d5-N-EtFOSAA	*59.6*		*"*	*50.0*		*119*	*25-150*				
Surrogate: M2-6:2 FTS	*49.2*		*"*	*47.6*		*104*	*25-200*				
Surrogate: M2-8:2 FTS	*46.4*		*"*	*48.0*		*96.7*	*25-200*				
Surrogate: M9PFNA	*14.4*		*"*	*12.5*		*115*	*25-150*				
Surrogate: M2-4:2 FTS	*48.9*		*"*	*46.9*		*104*	*25-150*				
Surrogate: d-N-MeFOSA	*23.0*		*"*	*25.0*		*92.0*	*25-150*				
Surrogate: d-N-EtFOSA	*19.3*		*"*	*25.0*		*77.4*	*25-150*				
Surrogate: M3HFPO-DA	*65.3*		*"*	*100*		*65.3*	*25-150*				
Surrogate: d9-N-EtFOSE	*214*		*"*	*250*		*85.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*222*		*"*	*250*		*88.9*	*25-150*				
Blank (BA51036-BLK2)									Prepared: 01/17/2025 Analyzed: 01/20/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

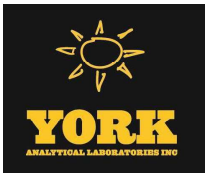
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51036 - EPA 1633 Prep											
Blank (BA51036-BLK2)								Prepared: 01/17/2025 Analyzed: 01/20/2025			
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	ng/L								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*25.4*		"	*23.3*		*109*	*25-150*				
Surrogate: M5PFHxA	*25.6*		"	*25.0*		*102*	*25-150*				
Surrogate: M4PFHpA	*24.8*		"	*25.0*		*99.0*	*25-150*				
Surrogate: M3PFHxS	*24.8*		"	*23.7*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*27.8*		"	*25.0*		*111*	*25-150*				
Surrogate: M6PFDA	*15.0*		"	*12.5*		*120*	*25-150*				
Surrogate: M7PFUdA	*13.3*		"	*12.5*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.6*		"	*12.5*		*92.6*	*25-150*				
Surrogate: M2PFTeDA	*7.87*		"	*12.5*		*62.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.51*		"	*100*		*4.51*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.8*		"	*24.0*		*108*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*41.9*		"	*50.0*		*83.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*25.0*		"	*25.0*		*99.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*45.3*		"	*50.0*		*90.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*46.4*		"	*50.0*		*92.8*	*25-150*				
Surrogate: M2-6:2 FTS	*44.7*		"	*47.6*		*94.1*	*25-200*				
Surrogate: M2-8:2 FTS	*39.6*		"	*48.0*		*82.4*	*25-200*				
Surrogate: M9PFNA	*13.4*		"	*12.5*		*107*	*25-150*				
Surrogate: M2-4:2 FTS	*43.6*		"	*46.9*		*92.9*	*25-150*				
Surrogate: d-N-MeFOSA	*17.9*		"	*25.0*		*71.7*	*25-150*				
Surrogate: d-N-EtFOSA	*14.3*		"	*25.0*		*57.0*	*25-150*				
Surrogate: M3HFPO-DA	*61.7*		"	*100*		*61.7*	*25-150*				
Surrogate: d9-N-EtFOSE	*164*		"	*250*		*65.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*169*		"	*250*		*67.5*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

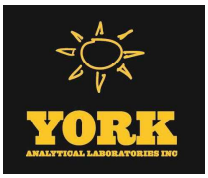
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51036 - EPA 1633 Prep											
LCS (BA51036-BS1)								Prepared: 01/17/2025 Analyzed: 01/20/2025			
Perfluorobutanesulfonic acid (PFBS)	38.2	1.77	ng/L	35.4		108	50-150				
Perfluorohexanoic acid (PFHxA)	43.8	2.00	"	40.0		109	50-150				
Perfluoroheptanoic acid (PFHpA)	52.4	2.00	"	40.0		131	50-150				
Perfluorohexanesulfonic acid (PFHxS)	40.3	1.83	"	36.6		110	50-150				
Perfluorooctanoic acid (PFOA)	37.9	2.00	"	40.0		94.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	37.7	1.86	"	37.2		101	50-150				
Perfluorononanoic acid (PFNA)	36.5	2.00	"	40.0		91.2	50-150				
Perfluorodecanoic acid (PFDA)	38.9	2.00	"	40.0		97.3	50-150				
Perfluoroundecanoic acid (PFUnA)	38.1	2.00	"	40.0		95.2	50-150				
Perfluorododecanoic acid (PFDoA)	38.9	2.00	"	40.0		97.3	50-150				
Perfluorotridecanoic acid (PFTrDA)	65.3	2.00	"	40.0		163	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	41.0	2.00	"	40.0		103	50-150				
N-MeFOSAA	46.4	2.00	"	40.0		116	50-150				
N-EtFOSAA	46.3	2.00	"	40.0		116	50-150				
Perfluoropentanoic acid (PFPeA)	87.2	4.00	"	80.0		109	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	39.7	2.00	"	40.0		99.3	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	36.9	1.91	"	38.2		96.5	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	37.3	1.93	"	38.6		96.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	142	7.60	"	152		93.7	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	179	7.68	"	154		117	50-150				
Perfluoro-n-butanoic acid (PFBA)	150	8.00	"	160		93.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	78.1	3.56	"	71.2		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	72.6	4.00	"	80.0		90.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	15.6	4.00	"	80.0		19.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	104	4.00	"	80.0		130	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	41.1	1.88	"	37.6		109	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	161	7.50	"	150		108	50-150				
HFPO-DA (Gen-X)	110	8.00	"	80.0		137	50-150				
11CL-PF3OUdS	121	7.56	"	75.6		160	50-150	High Bias			
9CL-PF3ONS	143	7.48	"	74.8		192	50-150	High Bias			
ADONA	158	7.56	"	75.6		210	50-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	27.7	1.94	"	38.8		71.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	41.8	1.92	"	38.4		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	156	5.00	"	160		97.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	986	25.0	"	800		123	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1010	25.0	"	800		127	50-150				
N-MeFOSE	465	20.0	"	400		116	50-150				
N-MeFOSA	47.5	2.00	"	40.0		119	50-150				
N-EtFOSE	440	20.0	"	400		110	50-150				
N-EtFOSA	43.6	2.00	"	40.0		109	50-150				
Surrogate: M3PFBS	*25.3*		*"*	*23.3*		*109*	*25-150*				
Surrogate: M5PFHxA	*24.5*		*"*	*25.0*		*98.2*	*25-150*				
Surrogate: M4PFHpA	*21.8*		*"*	*25.0*		*87.4*	*25-150*				
Surrogate: M3PFHxS	*26.7*		*"*	*23.7*		*112*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*26.7*		*"*	*25.0*		*107*	*25-150*				
Surrogate: M6PFDA	*12.9*		*"*	*12.5*		*103*	*25-150*				
Surrogate: M7PFUdA	*12.4*		*"*	*12.5*		*99.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

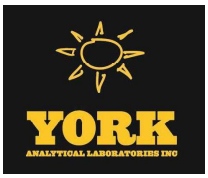
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51036 - EPA 1633 Prep											
LCS (BA51036-BS1)								Prepared: 01/17/2025 Analyzed: 01/20/2025			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.2*		*ng/L*	*12.5*		*89.5*	*25-150*				
Surrogate: M2PFTeDA	*6.73*		*"*	*12.5*		*53.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.84*		*"*	*100*		*3.84*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*26.0*		*"*	*24.0*		*109*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*35.0*		*"*	*50.0*		*69.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*26.4*		*"*	*25.0*		*106*	*10-150*				
Surrogate: d3-N-MeFOSAA	*51.6*		*"*	*50.0*		*103*	*25-150*				
Surrogate: d5-N-EtFOSAA	*52.5*		*"*	*50.0*		*105*	*25-150*				
Surrogate: M2-6:2 FTS	*46.7*		*"*	*47.6*		*98.3*	*25-200*				
Surrogate: M2-8:2 FTS	*43.5*		*"*	*48.0*		*90.6*	*25-200*				
Surrogate: M9PFNA	*12.3*		*"*	*12.5*		*98.0*	*25-150*				
Surrogate: M2-4:2 FTS	*44.0*		*"*	*46.9*		*93.9*	*25-150*				
Surrogate: d-N-MeFOSA	*17.7*		*"*	*25.0*		*70.9*	*25-150*				
Surrogate: d-N-EtFOSA	*14.1*		*"*	*25.0*		*56.6*	*25-150*				
Surrogate: M3HFPO-DA	*56.7*		*"*	*100*		*56.7*	*25-150*				
Surrogate: d9-N-EtFOSE	*162*		*"*	*250*		*64.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*193*		*"*	*250*		*77.1*	*25-150*				
LCS (BA51036-BS2)								Prepared: 01/17/2025 Analyzed: 01/20/2025			
Perfluorobutanesulfonic acid (PFBS)	3.88	1.77	ng/L	3.54		110	50-150				
Perfluorohexanoic acid (PFHxA)	4.27	2.00	"	4.00		107	50-150				
Perfluoroheptanoic acid (PFHpA)	4.72	2.00	"	4.00		118	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.15	1.83	"	3.66		114	50-150				
Perfluorooctanoic acid (PFOA)	3.52	2.00	"	4.00		88.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.89	1.86	"	3.72		105	50-150				
Perfluorononanoic acid (PFNA)	3.25	2.00	"	4.00		81.2	50-150				
Perfluorodecanoic acid (PFDA)	3.65	2.00	"	4.00		91.1	50-150				
Perfluoroundecanoic acid (PFUnA)	4.95	2.00	"	4.00		124	50-150				
Perfluorododecanoic acid (PFDoA)	4.83	2.00	"	4.00		121	50-150				
Perfluorotridecanoic acid (PFTrDA)	7.49	2.00	"	4.00		187	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	3.83	2.00	"	4.00		95.7	50-150				
N-MeFOSAA	4.41	2.00	"	4.00		110	50-150				
N-EtFOSAA	4.92	2.00	"	4.00		123	50-150				
Perfluoropentanoic acid (PFPeA)	8.68	4.00	"	8.00		109	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.65	2.00	"	4.00		91.3	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.66	1.91	"	3.82		95.8	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.81	1.93	"	3.86		98.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	14.7	7.60	"	15.2		96.8	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.8	7.68	"	15.4		109	50-150				
Perfluoro-n-butanoic acid (PFBA)	16.1	8.00	"	16.0		101	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.16	3.56	"	7.12		101	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.76	4.00	"	8.00		110	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.25	4.00	"	8.00		28.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.87	4.00	"	8.00		111	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.81	1.88	"	3.76		101	50-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51036 - EPA 1633 Prep											
LCS (BA51036-BS2)								Prepared: 01/17/2025 Analyzed: 01/20/2025			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.2	7.50	ng/L	15.0		115	50-150				
HFPO-DA (Gen-X)	10.3	8.00	"	8.00		129	50-150				
11CL-PF3OUdS	10.2	7.56	"	7.56		135	50-150				
9CL-PF3ONS	12.6	7.48	"	7.48		169	50-150	High Bias			
ADONA	13.8	7.56	"	7.56		182	50-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	2.51	1.94	"	3.88		64.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.79	1.92	"	3.84		98.6	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	20.9	5.00	"	16.0		131	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	95.8	25.0	"	80.0		120	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	96.4	25.0	"	80.0		120	50-150				
N-MeFOSE	47.5	20.0	"	40.0		119	50-150				
N-MeFOSA	4.43	2.00	"	4.00		111	50-150				
N-EtFOSE	49.2	20.0	"	40.0		123	50-150				
N-EtFOSA	3.99	2.00	"	4.00		99.7	50-150				
Surrogate: M3PFBS	*25.9*		"	*23.3*		*111*	*25-150*				
Surrogate: M5PFHxA	*26.7*		"	*25.0*		*107*	*25-150*				
Surrogate: M4PFHpA	*25.6*		"	*25.0*		*102*	*25-150*				
Surrogate: M3PFHxS	*25.5*		"	*23.7*		*108*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*28.1*		"	*25.0*		*113*	*25-150*				
Surrogate: M6PFDA	*14.8*		"	*12.5*		*119*	*25-150*				
Surrogate: M7PFUdA	*11.7*		"	*12.5*		*93.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*10.9*		"	*12.5*		*87.1*	*25-150*				
Surrogate: M2PFTeDA	*6.05*		"	*12.5*		*48.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*6.31*		"	*100*		*6.31*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*22.8*		"	*24.0*		*95.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*49.7*		"	*50.0*		*99.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*23.6*		"	*25.0*		*94.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*43.3*		"	*50.0*		*86.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.0*		"	*50.0*		*94.0*	*25-150*				
Surrogate: M2-6:2 FTS	*42.7*		"	*47.6*		*89.8*	*25-200*				
Surrogate: M2-8:2 FTS	*41.6*		"	*48.0*		*86.6*	*25-200*				
Surrogate: M9PFNA	*12.4*		"	*12.5*		*98.9*	*25-150*				
Surrogate: M2-4:2 FTS	*40.7*		"	*46.9*		*86.7*	*25-150*				
Surrogate: d-N-MeFOSA	*16.4*		"	*25.0*		*65.6*	*25-150*				
Surrogate: d-N-EtFOSA	*11.3*		"	*25.0*		*45.1*	*25-150*				
Surrogate: M3HFPO-DA	*67.9*		"	*100*		*67.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*145*		"	*250*		*57.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*160*		"	*250*		*63.8*	*25-150*				


YORK
ANALYTICAL LABORATORIES INC

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

25A0640

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp 3.8 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 1
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories, Inc.
Address: 132-02 89th Avenue
Richmond Hill, NY

Project #: GCS41678
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCS41678

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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

Analysis Request

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled	PFAS (40) by EPA 1633 EPA 1633 (draft)	500ml HDPE Plastic As Is
CS41678		GW	1/8/2025	12:45 PM	x	2
CS41679		GW	1/8/2025	11:50 AM	x	2
CS41680		GW	1/8/2025	2:15 PM	x	2
CS41681	FB	WTR	1/8/2025	—	x	2

Relinquished by	Accepted by:	Date:	Time:
		1-13-25	0735
		1/13/25	1035
		1-13-25	14:25

Comments, Special Requirements or Regulations:
WKI 1/13/25 1550 5.3°C
1-13-25 1550

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

Turnaround:
☐ 1 Day
☐ 2 Days
☐ 3 Days
☐ 5 Days
☐ 10 Days
☒ Standard
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☐ NY ASP B

EDD Format:
☐ Excel
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:

What State were samples collected?
NY

PHOENIX
Environmental Laboratories, Inc.

Wednesday, March 12, 2025

Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Project ID: 60-66 GERRY ST.
SDG ID: GCS66415
Sample ID#s: CS66415 - CS66418

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

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

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

The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

NY # 11301

SDG Comments

March 12, 2025

SDG I.D.: GCS66415

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

EPA method 8270 is not approved for drinking water matrices.
This analysis should not be used for compliance purposes.

SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

Toxaphene is reported to the lowest possible reporting level. The NY TOGS criteria for this compound can not be achieved.

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

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.

The regulatory hold time for Filtration is 24 hours. Filtration was performed in the laboratory and may be considered outside of hold-time.
Sample CS66415 was received past hold time for Nitrate as Nitrogen (E300.0).

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

NY # 11301

Sample Id Cross Reference

March 12, 2025

SDG I.D.: GCS66415

Project ID: 60-66 GERRY ST.

Client Id	Lab Id	Matrix	Col Date
23MW-4S	CS66415	GROUND WATER	02/18/25 10:00
23MW-3	CS66416	GROUND WATER	02/18/25 13:30
23MW-5	CS66417	GROUND WATER	02/18/25 13:45
23MW-2	CS66418	GROUND WATER	02/18/25 16:45

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 12, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		02/18/25	10:00
Location Code:	TOUCHSTONE	Received by:	SR1	02/20/25	17:55
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS66415
Phoenix ID: CS66415

Project ID: 60-66 GERRY ST.
Client ID: 23MW-4S

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Aluminum	ND	0.020	0.01	mg/L	1	02/25/25	TH	SW6010D
Arsenic	0.004	0.004	0.004	mg/L	1	02/25/25	TH	SW6010D
Barium	0.082	0.010	0.001	mg/L	1	02/25/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Calcium	206	0.10	0.10	mg/L	10	02/25/25	TH	SW6010D
Cadmium	ND	0.004	0.0005	mg/L	1	02/25/25	TH	SW6010D
Cobalt	ND	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Chromium	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Copper	0.004 J	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Silver (Dissolved)	ND	0.005	0.001	mg/L	1	02/21/25	TH	SW6010D
Aluminum (Dissolved)	ND	0.011	0.01	mg/L	1	02/21/25	TH	SW6010D
Arsenic, (Dissolved)	ND	0.003	0.004	mg/L	1	02/21/25	TH	SW6010D
Barium (Dissolved)	0.052	0.011	0.001	mg/L	1	02/21/25	TH	SW6010D
Beryllium (Dissolved)	ND	0.001	0.001	mg/L	1	02/21/25	TH	SW6010D
Calcium (Dissolved)	184	0.11	0.11	mg/L	10	02/21/25	CPP	SW6010D
Cadmium (Dissolved)	ND	0.004	0.0005	mg/L	1	02/21/25	TH	SW6010D
Cobalt, (Dissolved)	ND	0.005	0.001	mg/L	1	02/21/25	TH	SW6010D
Chromium (Dissolved)	ND	0.001	0.001	mg/L	1	02/21/25	TH	SW6010D
Copper, (Dissolved)	ND	0.005	0.001	mg/L	1	02/21/25	TH	SW6010D
Iron, (Dissolved)	0.02	0.01	0.01	mg/L	1	02/21/25	TH	SW6010D
Mercury (Dissolved)	ND	0.0002	0.00015	mg/L	1	02/24/25	ZT	SW7470A
Potassium (Dissolved)	14.0	1.1	0.11	mg/L	10	02/21/25	CPP	SW6010D
Magnesium (Dissolved)	15.8	0.01	0.01	mg/L	1	02/21/25	TH	SW6010D
Manganese, (Dissolved)	1.30	0.005	0.001	mg/L	1	02/21/25	TH	SW6010D
Sodium (Dissolved)	63.6	1.1	0.11	mg/L	10	02/21/25	CPP	SW6010D
Nickel, (Dissolved)	0.003 J	0.004	0.001	mg/L	1	02/21/25	TH	SW6010D
Lead (Dissolved)	ND	0.002	0.001	mg/L	1	02/21/25	TH	SW6010D

Project ID: 60-66 GERRY ST.
Client ID: 23MW-4S

Phoenix I.D.: CS66415

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Antimony (Dissolved)-LDL	ND	0.0006	0.0002	mg/L	2	02/25/25	JM	SW6020B	
Selenium (Dissolved)-LDL	ND	J 0.004	0.0002	mg/L	2	02/25/25	JM	SW6020B	
Thallium (Dissolved)	ND	0.0005	0.0002	mg/L	2	02/25/25	JM	SW6020B	
Vanadium, (Dissolved)	ND	0.011	0.001	mg/L	1	02/21/25	TH	SW6010D	
Zinc, (Dissolved)	0.002	J 0.011	0.0012	mg/L	1	02/21/25	TH	SW6010D	
Iron	15.7	0.01	0.01	mg/L	1	02/25/25	TH	SW6010D	
Mercury	ND	0.0002	0.00015	mg/L	1	02/21/25	JM	SW7470A	
Potassium	14.7	1.0	0.10	mg/L	10	02/25/25	TH	SW6010D	
Magnesium	16.6	0.010	0.01	mg/L	1	02/25/25	TH	SW6010D	
Manganese	1.50	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D	
Sodium	68.5	1.0	0.10	mg/L	10	02/25/25	TH	SW6010D	
Nickel	0.005	0.004	0.001	mg/L	1	02/25/25	TH	SW6010D	
Lead	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D	
Antimony	ND	0.0030	0.0005	mg/L	5	02/24/25	JM	SW6020B	
Selenium	ND	0.010	0.0005	mg/L	5	02/24/25	JM	SW6020B	
Thallium	ND	0.0005	0.0005	mg/L	5	02/24/25	JM	SW6020B	
Vanadium	0.002	J 0.010	0.001	mg/L	1	02/25/25	TH	SW6010D	
Zinc	0.009	J 0.010	0.0011	mg/L	1	02/25/25	TH	SW6010D	
Alkalinity-CaCO3	308	20.0		mg/L	1	02/21/25	KG/KDB	SM2320B-11	
Chloride	108	10.0	6	mg/L	2	02/21/25	DD/GD	E300.0	
Nitrate as Nitrogen	ND	0.05	0.01	mg/L	1	02/20/25 22:01	DD/GD	E300.0	
Sulfate	231	25.0	12.5	mg/L	5	02/21/25	DD/GD	E300.0	
Sulfide	ND	0.05	0.05	mg/L	1	02/25/25	GD	SM4500S-D-11	
Total Organic Carbon	4.0	1.0	0.5	mg/L	1	02/21/25	EG	SM5310B-14	
Lab Filtration	Completed					02/20/25	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed					02/24/25	AK/AK	SW7470A	
Mercury Digestion	Completed					02/21/25	GW/AK	SW7470A	
PCB Extraction (LDL)	Completed					02/24/25	P/P	SW3510C	
Extraction for Pest (LDL)	Completed					02/24/25	P/P	SW3510C	
Semi-Volatile Extraction	Completed					02/21/25	L/K/MQ	SW3520C	
Dissolved Metals Preparation	Completed					02/20/25	AG	SW3005A	
Dissolved Metals Preparation (MS)	Completed					02/24/25	AG	SW3005A	
Total Metals Digestion	Completed					02/24/25	AG	SW3010A	
Total Metals Digestion MS	Completed					02/21/25	AG	SW3010A	
Carbon Dioxide	90.8	3.00		mg/L		02/27/25	*	RSK-175 modifiedRev.	C
Ethane	21	14		ug/L		03/05/25	*	EPA RSKSOP-175Rev.	C
Ethene	41	17		ug/L		03/05/25	*	EPA RSKSOP-175Rev.	C
Methane	140	7.0		ug/L		03/05/25	*	EPA RSKSOP-175Rev.	C
PFAS (40) by EPA 1633	Completed					02/28/25	AM	EPA 1633 Draft 3	C

PFAS (40) by EPA 1633

11Cl-PF3OUdS	ND	8.59	1.57	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND	8.73	2.33	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND	8.52	2.03	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND	8.63	8.52	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND	5.68	2.31	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND	28.4	8.33	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND	28.4	10.8	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND	8.50	0.795	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C

Ver 1

Project ID: 60-66 GERRY ST.
Client ID: 23MW-4S

Phoenix I.D.: CS66415

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
ADONA	ND		8.59	0.602	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND		9.09	3.67	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND		2.27	2.04	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.27	1.17	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		22.7	4.53	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.54	2.43	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.27	1.80	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.27	0.898	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		22.7	4.53	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		2.19	1.50	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		2.17	1.03	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.27	1.00	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	2.88		2.01	0.534	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.27	0.852	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		2.20	1.06	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.27	1.00	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	6.04		2.27	0.807	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	2.91		2.08	0.773	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	9.26		2.27	0.398	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	8.69	J	9.09	0.375	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		2.18	0.977	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND		2.27	0.591	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	1.11	J	2.11	0.932	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	19.9		2.27	0.477	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		2.14	0.863	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	8.87		4.54	0.261	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.27	0.784	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.27	0.841	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.27	1.28	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		4.04	0.568	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.54	0.420	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.54	0.284	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	129				%	1	03/03/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	133				%	1	03/03/25	AM	25 - 150 %	C
% d7-N-MeFOSE	104				%	1	03/03/25	AM	25 - 150 %	C
% d9-N-EtFOSE	104				%	1	03/03/25	AM	25 - 150 %	C
% d-N-EtFOSA	95.9				%	1	03/03/25	AM	25 - 150 %	C
% d-N-MeFOSA	89.5				%	1	03/03/25	AM	25 - 150 %	C
% M2-4:2 FTS	280				%	1	03/03/25	AM	25 - 150 %	C,3
% M2-6:2 FTS	212				%	1	03/03/25	AM	25 - 200 %	C,3
% M2-8:2 FTS	159				%	1	03/03/25	AM	25 - 200 %	C
% M2PFTEDA	88.3				%	1	03/03/25	AM	10 - 150 %	C
% M3HFPO-DA	140				%	1	03/03/25	AM	25 - 150 %	C
% M3PFBS	133				%	1	03/03/25	AM	25 - 150 %	C
% M3PFHxS	139				%	1	03/03/25	AM	25 - 150 %	C
% M4PFHpA	166				%	1	03/03/25	AM	25 - 150 %	C,3
% M5PFHxA	142				%	1	03/03/25	AM	25 - 150 %	C
% M5PFPEA	156				%	1	03/03/25	AM	25 - 150 %	C,3

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Client ID: 23MW-4S

Phoenix I.D.: CS66415

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% M6PFDA	146			%	1	03/03/25	AM	25 - 150 %	C
% M7PFUDA	128			%	1	03/03/25	AM	25 - 150 %	C
% M8FOSA	130			%	1	03/03/25	AM	10 - 150 %	C
% M8PFOA	139			%	1	03/03/25	AM	25 - 150 %	C
% M8PFOS	137			%	1	03/03/25	AM	25 - 150 %	C
% M9PFNA	142			%	1	03/03/25	AM	25 - 150 %	C
% MPFBA	108			%	1	03/03/25	AM	25 - 150 %	C
% MPFDOA	102			%	1	03/03/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
4,4' -DDE	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
4,4' -DDT	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
a-BHC	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
a-chlordane	ND	0.014	0.014	ug/L	1	02/25/25	AW	SW8081B	
Alachlor	ND	0.10	0.10	ug/L	1	02/25/25	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	02/25/25	AW	SW8081B	
b-BHC	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
Chlordane	ND	0.028	0.028	ug/L	1	02/25/25	AW	SW8081B	
d-BHC	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
Dieldrin	ND	0.002	0.002	ug/L	1	02/25/25	AW	SW8081B	
Endosulfan I	ND	0.014	0.014	ug/L	1	02/25/25	AW	SW8081B	
Endosulfan II	ND	0.014	0.014	ug/L	1	02/25/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.014	0.014	ug/L	1	02/25/25	AW	SW8081B	
Endrin	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
Endrin Aldehyde	ND	0.014	0.014	ug/L	1	02/25/25	AW	SW8081B	
Endrin ketone	ND	0.014	0.014	ug/L	1	02/25/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
g-chlordane	ND	0.014	0.014	ug/L	1	02/25/25	AW	SW8081B	
Heptachlor	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
Heptachlor epoxide	ND	0.007	0.007	ug/L	1	02/25/25	AW	SW8081B	
Methoxychlor	ND	0.14	0.14	ug/L	1	02/25/25	AW	SW8081B	
Toxaphene	ND	0.28	0.28	ug/L	1	02/25/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	62			%	1	02/25/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	59			%	1	02/25/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	76			%	1	02/25/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	81			%	1	02/25/25	AW	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1221	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1232	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1242	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1248	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1254	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1260	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1262	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
PCB-1268	ND	0.070	0.070	ug/L	1	02/25/25	SC	SW8082A	
QA/QC Surrogates									

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% DCBP	68			%	1	02/25/25	SC	30 - 150 %	
% DCBP (Confirmation)	77			%	1	02/25/25	SC	30 - 150 %	
% TCMX	90			%	1	02/25/25	SC	30 - 150 %	
% TCMX (Confirmation)	91			%	1	02/25/25	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acetone	ND	5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromodichloromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromomethane	ND	5.0	0.50	ug/L	1	02/24/25	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
cis-1,2-Dichloroethene	85	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Dibromomethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Ethylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	02/24/25	MH	SW8260D	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
m&p-Xylene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	0.85	J	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Methylene chloride	ND		3.0	1.0	ug/L	1	02/24/25	MH	SW8260D	
Naphthalene	ND		1.0	1.0	ug/L	1	02/24/25	MH	SW8260D	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
o-Xylene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Styrene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Tetrachloroethene	0.54	J	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	1
Toluene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,2-Dichloroethene	0.37	J	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Trichloroethene	0.35	J	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Vinyl chloride	200		20	5.0	ug/L	20	02/24/25	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	101				%	1	02/24/25	MH	70 - 130 %	
% Bromofluorobenzene	93				%	1	02/24/25	MH	70 - 130 %	
% Dibromofluoromethane	105				%	1	02/24/25	MH	70 - 130 %	
% Toluene-d8	98				%	1	02/24/25	MH	70 - 130 %	
% 1,2-dichlorobenzene-d4 (20x)	102				%	20	02/24/25	MH	70 - 130 %	
% Bromofluorobenzene (20x)	94				%	20	02/24/25	MH	70 - 130 %	
% Dibromofluoromethane (20x)	94				%	20	02/24/25	MH	70 - 130 %	
% Toluene-d8 (20x)	99				%	20	02/24/25	MH	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.40	0.40	ug/l	1	02/25/25	AW	SW8270ESIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	88				%	1	02/25/25	AW	70 - 130 %	
Semivolatiles										
1,2,4,5-Tetrachlorobenzene	ND		3.5	4.4	ug/L	1	02/25/25	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND		5	1.9	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Dichlorobenzene	ND		1.0	1.3	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Diphenylhydrazine	ND		5	2.1	ug/L	1	02/25/25	KCA	SW8270E	
1,3-Dichlorobenzene	ND		1.0	1.3	ug/L	1	02/25/25	KCA	SW8270E	
1,4-Dichlorobenzene	ND		1.0	1.3	ug/L	1	02/25/25	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND		5	1.8	ug/L	1	02/25/25	KCA	SW8270E	1

Project ID: 60-66 GERRY ST.
Client ID: 23MW-4S

Phoenix I.D.: CS66415

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
2,4-Dinitrotoluene	ND	5	2.5	ug/L	1	02/25/25	KCA	SW8270E
2,6-Dinitrotoluene	ND	5	2.0	ug/L	1	02/25/25	KCA	SW8270E
2-Chloronaphthalene	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E
2-Chlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
2-Methylnaphthalene	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
2-Nitroaniline	ND	5.0	2.5	ug/L	1	02/25/25	KCA	SW8270E
2-Nitrophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.3	ug/L	1	02/25/25	KCA	SW8270E
3,3'-Dichlorobenzidine	ND	5.0	3.0	ug/L	1	02/25/25	KCA	SW8270E
3-Nitroaniline	ND	5.0	2.5	ug/L	1	02/25/25	KCA	SW8270E
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
4-Bromophenyl phenyl ether	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
4-Chloroaniline	ND	3.5	3.0	ug/L	1	02/25/25	KCA	SW8270E
4-Chlorophenyl phenyl ether	ND	5	2.1	ug/L	1	02/25/25	KCA	SW8270E
4-Nitroaniline	ND	5.0	2.1	ug/L	1	02/25/25	KCA	SW8270E
4-Nitrophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
Acenaphthene	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E
Acetophenone	ND	5	2.0	ug/L	1	02/25/25	KCA	SW8270E
Aniline	ND	3.5	4.4	ug/L	1	02/25/25	KCA	SW8270E
Anthracene	ND	5	2.1	ug/L	1	02/25/25	KCA	SW8270E
Benzidine	ND	4.5	3.7	ug/L	1	02/25/25	KCA	SW8270E
Benzoic acid	ND	25	13	ug/L	1	02/25/25	KCA	SW8270E
Benzyl butyl phthalate	ND	5	1.6	ug/L	1	02/25/25	KCA	SW8270E
Bis(2-chloroethoxy)methane	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
Bis(2-ethylhexyl)phthalate	ND	1.0	1.3	ug/L	1	02/25/25	KCA	SW8270E
Carbazole	ND	5	4.8	ug/L	1	02/25/25	KCA	SW8270E
Dibenzofuran	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E
Diethyl phthalate	ND	5	2.0	ug/L	1	02/25/25	KCA	SW8270E
Dimethylphthalate	ND	5	2.0	ug/L	1	02/25/25	KCA	SW8270E
Di-n-butylphthalate	ND	5	1.7	ug/L	1	02/25/25	KCA	SW8270E
Di-n-octylphthalate	ND	5	1.6	ug/L	1	02/25/25	KCA	SW8270E
Fluoranthene	ND	5	2.1	ug/L	1	02/25/25	KCA	SW8270E
Fluorene	ND	5	2.1	ug/L	1	02/25/25	KCA	SW8270E
Hexachloroethane	ND	1.0	1.3	ug/L	1	02/25/25	KCA	SW8270E
Isophorone	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E
Naphthalene	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E
N-Nitrosodi-n-propylamine	ND	5	2.1	ug/L	1	02/25/25	KCA	SW8270E
N-Nitrosodiphenylamine	ND	5	2.4	ug/L	1	02/25/25	KCA	SW8270E
Pentachloronitrobenzene	ND	2.5	3.2	ug/L	1	02/25/25	KCA	SW8270E
Phenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E
Pyrene	ND	5	2.2	ug/L	1	02/25/25	KCA	SW8270E

Project ID: 60-66 GERRY ST.
Client ID: 23MW-4S

Phoenix I.D.: CS66415

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Pyridine	ND	10	1.6	ug/L	1	02/25/25	KCA	SW8270E	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	75			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	52			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	53			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	56			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	54			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	47			%	1	02/25/25	KCA	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.64	0.64	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.64	0.64	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.64	0.64	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.64	0.64	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Nitrobenzene	ND	0.40	0.40	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.13	0.13	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Pentachlorophenol	ND	0.64	0.64	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Phenanthrene	ND	0.64	0.64	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	76			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	55			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	53			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	58			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	58			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	56			%	1	02/25/25	KCA	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					02/25/25	G/G	SW8270ESIM	1

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

*See attached

Dissolved Gases analysis by RSKSOP-175 was subcontracted to Pace Analytical Sercies Mansfield Lab (NELAC accredited for method). CT does not certify for this analysis.

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

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Dissolved analysis requires filtration. Samples submitted from an unpreserved container have been lab filtered.

Carbon Dioxide (RSK-175 modifiedRev. 2) was analyzed by NY certified lab #11627.
Ethane (EPA RSKSOP-175Rev. 2), Ethene (EPA RSKSOP-175Rev. 2), Methane (EPA RSKSOP-175Rev. 2) were analyzed by NY certified lab #10899.
PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
March 12, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 12, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		02/18/25	13:30
Location Code:	TOUCHSTONE	Received by:	SR1	02/20/25	17:55
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS66415
Phoenix ID: CS66416

Project ID: 60-66 GERRY ST.
Client ID: 23MW-3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Aluminum	0.030	0.020	0.01	mg/L	1	02/25/25	TH	SW6010D
Arsenic	0.010	0.004	0.004	mg/L	1	02/25/25	TH	SW6010D
Barium	0.095	0.010	0.001	mg/L	1	02/25/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Calcium	139	0.010	0.01	mg/L	1	02/25/25	TH	SW6010D
Cadmium	ND	0.004	0.0005	mg/L	1	02/25/25	TH	SW6010D
Cobalt	ND	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Chromium	0.003	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Copper	0.005	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Iron	0.04	0.01	0.01	mg/L	1	02/25/25	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	02/24/25	ZT	SW7470A
Potassium	39.6	1.0	0.10	mg/L	10	02/25/25	TH	SW6010D
Magnesium	13.0	0.010	0.01	mg/L	1	02/25/25	TH	SW6010D
Manganese	0.006	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Sodium	54.2	1.0	0.10	mg/L	10	02/25/25	TH	SW6010D
Nickel	0.002 J	0.004	0.001	mg/L	1	02/25/25	TH	SW6010D
Lead	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Antimony	0.0059	0.0030	0.0005	mg/L	5	02/24/25	JM	SW6020B
Selenium	0.037	0.010	0.0005	mg/L	5	02/24/25	JM	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	02/24/25	JM	SW6020B
Vanadium	0.013	0.010	0.001	mg/L	1	02/25/25	TH	SW6010D
Zinc	0.001 J	0.010	0.0011	mg/L	1	02/25/25	TH	SW6010D
Mercury Digestion	Completed					02/24/25	AK/AK	SW7470A
PCB Extraction (LDL)	Completed					02/24/25	P/P	SW3510C
Extraction for Pest (LDL)	Completed					02/24/25	P/P	SW3510C
Semi-Volatile Extraction	Completed					02/21/25	L/K/MQ	SW3520C

Ver 1

Project ID: 60-66 GERRY ST.
Client ID: 23MW-3

Phoenix I.D.: CS66416

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Metals Digestion	Completed						02/24/25	AG	SW3010A	
Total Metals Digestion MS	Completed						02/21/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed						02/28/25	AM	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633										
11Cl-PF3OUdS	ND		8.54	1.56	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND		8.68	2.32	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND		8.47	2.02	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND		8.59	8.47	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND		5.65	2.29	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND		28.2	8.28	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND		28.2	10.7	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND		8.45	0.791	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
ADONA	ND		8.54	0.599	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND		9.04	3.65	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND		2.26	2.03	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.26	1.16	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		22.6	4.51	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.52	2.42	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.26	1.79	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.26	0.893	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		22.6	4.51	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		2.18	1.49	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		2.16	1.03	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.26	0.994	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	3.09		2.00	0.531	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.26	0.847	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		2.19	1.05	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.26	0.994	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	4.96		2.26	0.802	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	1.81	J	2.07	0.768	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	11.5		2.26	0.395	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	ND		9.04	0.373	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		2.17	0.972	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	ND		2.26	0.588	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	2.47		2.10	0.927	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	15.7		2.26	0.475	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		2.12	0.859	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	12.3		4.52	0.260	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.26	0.780	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.26	0.836	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.26	1.28	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		4.02	0.565	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.52	0.418	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.52	0.282	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	114				%	1	03/03/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	127				%	1	03/03/25	AM	25 - 150 %	C
% d7-N-MeFOSE	97.6				%	1	03/03/25	AM	25 - 150 %	C
% d9-N-EtFOSE	112				%	1	03/03/25	AM	25 - 150 %	C

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% d-N-EtFOSA	108			%	1	03/03/25	AM	25 - 150 %	C
% d-N-MeFOSA	92.1			%	1	03/03/25	AM	25 - 150 %	C
% M2-4:2 FTS	278			%	1	03/03/25	AM	25 - 150 %	C,3
% M2-6:2 FTS	198			%	1	03/03/25	AM	25 - 200 %	C
% M2-8:2 FTS	144			%	1	03/03/25	AM	25 - 200 %	C
% M2PFTEDA	82.3			%	1	03/03/25	AM	10 - 150 %	C
% M3HFPO-DA	114			%	1	03/03/25	AM	25 - 150 %	C
% M3PFBS	115			%	1	03/03/25	AM	25 - 150 %	C
% M3PFHxS	124			%	1	03/03/25	AM	25 - 150 %	C
% M4PFHpA	139			%	1	03/03/25	AM	25 - 150 %	C
% M5PFHxA	117			%	1	03/03/25	AM	25 - 150 %	C
% M5PFPEA	109			%	1	03/03/25	AM	25 - 150 %	C
% M6PFDA	117			%	1	03/03/25	AM	25 - 150 %	C
% M7PFUDA	104			%	1	03/03/25	AM	25 - 150 %	C
% M8FOSA	113			%	1	03/03/25	AM	10 - 150 %	C
% M8PFOA	115			%	1	03/03/25	AM	25 - 150 %	C
% M8PFOS	123			%	1	03/03/25	AM	25 - 150 %	C
% M9PFNA	126			%	1	03/03/25	AM	25 - 150 %	C
% MPFBA	13.6			%	1	03/03/25	AM	25 - 150 %	C,3
% MPFDOA	96.1			%	1	03/03/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.006	0.006	ug/L	1	02/26/25	AW	SW8081B	
4,4' -DDE	ND	0.006	0.006	ug/L	1	02/26/25	AW	SW8081B	
4,4' -DDT	ND	0.006	0.006	ug/L	1	02/26/25	AW	SW8081B	
a-BHC	ND	0.006	0.006	ug/L	1	02/26/25	AW	SW8081B	
a-chlordane	ND	0.013	0.013	ug/L	1	02/26/25	AW	SW8081B	
Alachlor	ND	0.097	0.097	ug/L	1	02/26/25	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	02/26/25	AW	SW8081B	
b-BHC	ND	0.006	0.006	ug/L	1	02/26/25	AW	SW8081B	
Chlordane	ND	0.026	0.026	ug/L	1	02/26/25	AW	SW8081B	
d-BHC	ND	0.006	0.006	ug/L	1	02/26/25	AW	SW8081B	
Dieldrin	ND	0.002	0.002	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan I	ND	0.013	0.013	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan II	ND	0.013	0.013	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.013	0.013	ug/L	1	02/26/25	AW	SW8081B	
Endrin	ND	0.007	0.007	ug/L	1	02/26/25	AW	SW8081B	
Endrin Aldehyde	ND	0.013	0.013	ug/L	1	02/26/25	AW	SW8081B	
Endrin ketone	ND	0.013	0.013	ug/L	1	02/26/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.006	0.006	ug/L	1	02/26/25	AW	SW8081B	
g-chlordane	ND	0.013	0.013	ug/L	1	02/26/25	AW	SW8081B	
Heptachlor	ND	0.007	0.007	ug/L	1	02/26/25	AW	SW8081B	
Heptachlor epoxide	ND	0.007	0.007	ug/L	1	02/26/25	AW	SW8081B	
Methoxychlor	ND	0.13	0.13	ug/L	1	02/26/25	AW	SW8081B	
Toxaphene	ND	0.26	0.26	ug/L	1	02/26/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	70			%	1	02/26/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	81			%	1	02/26/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	73			%	1	02/26/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	79			%	1	02/26/25	AW	30 - 150 %	

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Polychlorinated Biphenyls									
PCB-1016	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1221	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1232	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1242	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1248	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1254	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1260	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1262	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
PCB-1268	ND	0.065	0.065	ug/L	1	02/25/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	86			%	1	02/25/25	SC	30 - 150 %	
% DCBP (Confirmation)	80			%	1	02/25/25	SC	30 - 150 %	
% TCMX	87			%	1	02/25/25	SC	30 - 150 %	
% TCMX (Confirmation)	77			%	1	02/25/25	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/25/25	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/25/25	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/25/25	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/25/25	MH	SW8260D	
Acetone	ND	5.0	2.5	ug/L	1	02/25/25	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	02/25/25	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	02/25/25	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	02/25/25	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	

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Bromodichloromethane	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Bromoform	ND		5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Bromomethane	ND		5.0	0.50	ug/L	1	02/25/25	MH	SW8260D	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Chlorobenzene	ND		5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Chloroethane	ND		5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Chloroform	ND		5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Chloromethane	ND		5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
cis-1,2-Dichloroethene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/25/25	MH	SW8260D	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Dibromomethane	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Ethylbenzene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	02/25/25	MH	SW8260D	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
m&p-Xylene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	02/25/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Methylene chloride	ND		3.0	1.0	ug/L	1	02/25/25	MH	SW8260D	
Naphthalene	ND		1.0	1.0	ug/L	1	02/25/25	MH	SW8260D	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
o-Xylene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Styrene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Tetrachloroethene	0.95	J	1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	02/25/25	MH	SW8260D	1
Toluene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
trans-1,2-Dichloroethene	ND		5.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/25/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	02/25/25	MH	SW8260D	
Trichloroethene	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
Vinyl chloride	ND		1.0	0.25	ug/L	1	02/25/25	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	102				%	1	02/25/25	MH	70 - 130 %	
% Bromofluorobenzene	92				%	1	02/25/25	MH	70 - 130 %	
% Dibromofluoromethane	94				%	1	02/25/25	MH	70 - 130 %	
% Toluene-d8	99				%	1	02/25/25	MH	70 - 130 %	
1,4-dioxane										
1,4-dioxane	ND		0.20	0.20	ug/l	1	02/25/25	AW	SW8270ESIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	85				%	1	02/25/25	AW	70 - 130 %	

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Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.5	4.0	ug/L	1	02/25/25	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	5	1.7	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Dichlorobenzene	ND	1.0	1.1	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E	
1,3-Dichlorobenzene	ND	1.0	1.1	ug/L	1	02/25/25	KCA	SW8270E	
1,4-Dichlorobenzene	ND	1.0	1.1	ug/L	1	02/25/25	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	5	1.6	ug/L	1	02/25/25	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dichlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dimethylphenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dinitrophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dinitrotoluene	ND	5	2.2	ug/L	1	02/25/25	KCA	SW8270E	
2,6-Dinitrotoluene	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E	
2-Chloronaphthalene	ND	5	1.6	ug/L	1	02/25/25	KCA	SW8270E	
2-Chlorophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
2-Methylnaphthalene	ND	5	1.7	ug/L	1	02/25/25	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
2-Nitroaniline	ND	5.0	2.3	ug/L	1	02/25/25	KCA	SW8270E	
2-Nitrophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	1.0	1.1	ug/L	1	02/25/25	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	5.0	2.7	ug/L	1	02/25/25	KCA	SW8270E	
3-Nitroaniline	ND	5.0	2.3	ug/L	1	02/25/25	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	5	1.7	ug/L	1	02/25/25	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
4-Chloroaniline	ND	3.5	2.7	ug/L	1	02/25/25	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E	
4-Nitroaniline	ND	5.0	1.9	ug/L	1	02/25/25	KCA	SW8270E	
4-Nitrophenol	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
Acenaphthene	ND	5	1.7	ug/L	1	02/25/25	KCA	SW8270E	
Acetophenone	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E	
Aniline	ND	3.5	4.0	ug/L	1	02/25/25	KCA	SW8270E	
Anthracene	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E	
Benzidine	ND	4.5	3.4	ug/L	1	02/25/25	KCA	SW8270E	
Benzoic acid	ND	25	11	ug/L	1	02/25/25	KCA	SW8270E	
Benzyl butyl phthalate	ND	5	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	5	1.6	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	1.0	1.1	ug/L	1	02/25/25	KCA	SW8270E	
Carbazole	ND	5	4.3	ug/L	1	02/25/25	KCA	SW8270E	
Dibenzofuran	ND	5	1.7	ug/L	1	02/25/25	KCA	SW8270E	
Diethyl phthalate	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E	
Dimethylphthalate	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E	
Di-n-butylphthalate	ND	5	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Di-n-octylphthalate	ND	5	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Fluoranthene	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E	
Fluorene	ND	5	1.9	ug/L	1	02/25/25	KCA	SW8270E	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachloroethane	ND	1.0	1.1	ug/L	1	02/25/25	KCA	SW8270E	
Isophorone	ND	5	1.6	ug/L	1	02/25/25	KCA	SW8270E	
Naphthalene	ND	5	1.6	ug/L	1	02/25/25	KCA	SW8270E	
N-Nitrosodi-n-propylamine	ND	5	1.8	ug/L	1	02/25/25	KCA	SW8270E	
N-Nitrosodiphenylamine	ND	5	2.2	ug/L	1	02/25/25	KCA	SW8270E	
Pentachloronitrobenzene	ND	2.5	2.9	ug/L	1	02/25/25	KCA	SW8270E	
Phenol	1.1	1.0	1.0	ug/L	1	02/25/25	KCA	SW8270E	
Pyrene	ND	5	2.0	ug/L	1	02/25/25	KCA	SW8270E	
Pyridine	ND	10	1.4	ug/L	1	02/25/25	KCA	SW8270E	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	93			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	61			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	52			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	65			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	52			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	59			%	1	02/25/25	KCA	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.57	0.57	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.57	0.57	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.57	0.57	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.57	0.57	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Nitrobenzene	ND	0.40	0.40	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.11	0.11	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Pentachlorophenol	ND	0.57	0.57	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Phenanthrene	ND	0.57	0.57	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	92			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	64			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	56			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	68			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	59			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	71			%	1	02/25/25	KCA	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					02/25/25	G/G	SW8270ESIM	1

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

*See attached

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

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
March 12, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 12, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		02/18/25	13:45
Location Code:	TOUCHSTONE	Received by:	SR1	02/20/25	17:55
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS66415
Phoenix ID: CS66417

Project ID: 60-66 GERRY ST.
Client ID: 23MW-5

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Aluminum	0.126	0.020	0.01	mg/L	1	02/25/25	TH	SW6010D
Arsenic	0.005	0.004	0.004	mg/L	1	02/25/25	TH	SW6010D
Barium	0.045	0.010	0.001	mg/L	1	02/25/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Calcium	488	0.10	0.10	mg/L	10	02/25/25	TH	SW6010D
Cadmium	ND	0.004	0.0005	mg/L	1	02/25/25	TH	SW6010D
Cobalt	ND	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Chromium	0.003	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Copper	0.007	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Iron	0.18	0.01	0.01	mg/L	1	02/25/25	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	02/24/25	ZT	SW7470A
Potassium	10.1	0.1	0.01	mg/L	1	02/25/25	TH	SW6010D
Magnesium	40.1	0.010	0.01	mg/L	1	02/25/25	TH	SW6010D
Manganese	0.027	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Sodium	51.2	1.0	0.10	mg/L	10	02/25/25	TH	SW6010D
Nickel	0.008	0.004	0.001	mg/L	1	02/25/25	TH	SW6010D
Lead	0.005	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Antimony	0.0033	0.0030	0.0005	mg/L	5	02/24/25	JM	SW6020B
Selenium	0.215	0.010	0.0005	mg/L	5	02/24/25	JM	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	02/24/25	JM	SW6020B
Vanadium	0.002	J 0.010	0.001	mg/L	1	02/25/25	TH	SW6010D
Zinc	0.318	0.010	0.0011	mg/L	1	02/25/25	TH	SW6010D
Mercury Digestion	Completed					02/24/25	AK/AK	SW7470A
PCB Extraction (LDL)	Completed					02/24/25	P/P	SW3510C
Extraction for Pest (LDL)	Completed					02/24/25	P/P	SW3510C
Semi-Volatile Extraction	Completed					02/21/25	L/K/MQ	SW3520C

Ver 1

Project ID: 60-66 GERRY ST.
Client ID: 23MW-5

Phoenix I.D.: CS66417

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Metals Digestion	Completed						02/24/25	AG	SW3010A	
Total Metals Digestion MS	Completed						02/21/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed						02/28/25	AM	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633										
11Cl-PF3OUdS	ND		7.75	1.42	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND		7.88	2.10	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND		7.69	1.84	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND		7.79	7.69	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND		5.13	2.08	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND		25.6	7.52	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND		25.6	9.71	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND		7.67	0.718	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
ADONA	ND		7.75	0.544	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND		8.21	3.31	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND		2.05	1.85	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.05	1.06	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		20.5	4.09	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.10	2.19	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.05	1.62	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.05	0.810	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		20.5	4.09	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		1.98	1.35	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		1.96	0.933	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.05	0.903	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	5.21		1.82	0.482	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.05	0.769	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		1.99	0.954	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.05	0.903	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	8.61		2.05	0.728	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	1.46	J	1.88	0.697	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	10.2		2.05	0.359	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	8.30		8.21	0.338	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		1.97	0.882	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	0.940	J	2.05	0.533	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	2.22		1.91	0.841	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	40.2		2.05	0.431	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		1.93	0.779	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	8.81		4.10	0.236	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.05	0.708	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.05	0.759	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.05	1.16	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.65	0.513	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.10	0.379	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.10	0.256	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	122				%	1	03/03/25	AM	25 - 150 %	C
% d5-N-EtFOSAA	132				%	1	03/03/25	AM	25 - 150 %	C
% d7-N-MeFOSE	100				%	1	03/03/25	AM	25 - 150 %	C
% d9-N-EtFOSE	106				%	1	03/03/25	AM	25 - 150 %	C

Ver 1

Project ID: 60-66 GERRY ST.
Client ID: 23MW-5

Phoenix I.D.: CS66417

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% d-N-EtFOSA	103			%	1	03/03/25	AM	25 - 150 %	C
% d-N-MeFOSA	85.2			%	1	03/03/25	AM	25 - 150 %	C
% M2-4:2 FTS	367			%	1	03/03/25	AM	25 - 150 %	C,3
% M2-6:2 FTS	262			%	1	03/03/25	AM	25 - 200 %	C,3
% M2-8:2 FTS	169			%	1	03/03/25	AM	25 - 200 %	C
% M2PFTEDA	85.1			%	1	03/03/25	AM	10 - 150 %	C
% M3HFPO-DA	123			%	1	03/03/25	AM	25 - 150 %	C
% M3PFBS	131			%	1	03/03/25	AM	25 - 150 %	C
% M3PFHxS	149			%	1	03/03/25	AM	25 - 150 %	C
% M4PFHpA	153			%	1	03/03/25	AM	25 - 150 %	C,3
% M5PFHxA	140			%	1	03/03/25	AM	25 - 150 %	C
% M5PFPEA	143			%	1	03/03/25	AM	25 - 150 %	C
% M6PFDA	122			%	1	03/03/25	AM	25 - 150 %	C
% M7PFUDA	112			%	1	03/03/25	AM	25 - 150 %	C
% M8FOSA	118			%	1	03/03/25	AM	10 - 150 %	C
% M8PFOA	142			%	1	03/03/25	AM	25 - 150 %	C
% M8PFOS	133			%	1	03/03/25	AM	25 - 150 %	C
% M9PFNA	141			%	1	03/03/25	AM	25 - 150 %	C
% MPFBA	87.1			%	1	03/03/25	AM	25 - 150 %	C
% MPFDOA	97.1			%	1	03/03/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Alachlor	ND	0.072	0.072	ug/L	1	02/26/25	AW	SW8081B	1
Aldrin	ND	0.001	0.001	ug/L	1	02/26/25	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
Chlordane	ND	0.048	0.048	ug/L	1	02/26/25	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
Dieldrin	ND	0.001	0.001	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Methoxychlor	ND	0.096	0.096	ug/L	1	02/26/25	AW	SW8081B	
Toxaphene	ND	0.19	0.19	ug/L	1	02/26/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	62			%	1	02/26/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	71			%	1	02/26/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	79			%	1	02/26/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	77			%	1	02/26/25	AW	30 - 150 %	

Ver 1

Project ID: 60-66 GERRY ST.
Client ID: 23MW-5

Phoenix I.D.: CS66417

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Polychlorinated Biphenyls									
PCB-1016	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1221	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1232	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1242	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1248	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1254	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1260	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1262	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
PCB-1268	ND	0.048	0.048	ug/L	1	02/25/25	SC	SW8082A	
QA/QC Surrogates									
% DCBP	72			%	1	02/25/25	SC	30 - 150 %	
% DCBP (Confirmation)	71			%	1	02/25/25	SC	30 - 150 %	
% TCMX	91			%	1	02/25/25	SC	30 - 150 %	
% TCMX (Confirmation)	81			%	1	02/25/25	SC	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,1-Trichloroethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,2-Trichloroethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloroethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloroethene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloropropene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,3-Trichloropropane	ND	0.25	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dibromoethane	ND	0.25	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichloroethane	ND	0.60	0.50	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3-Dichloropropane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,4-Dichlorobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2,2-Dichloropropane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2-Hexanone	ND	2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
2-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	1
4-Chlorotoluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
4-Methyl-2-pentanone	ND	2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acetone	ND	5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acrolein	ND	5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acrylonitrile	ND	5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Benzene	ND	0.70	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromobenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromochloromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	

Project ID: 60-66 GERRY ST.
Client ID: 23MW-5

Phoenix I.D.: CS66417

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bromodichloromethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromoform	ND		5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromomethane	ND		5.0	0.50	ug/L	1	02/24/25	MH	SW8260D	
Carbon Disulfide	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Carbon tetrachloride	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chlorobenzene	ND		5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloroethane	ND		5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloroform	ND		5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloromethane	ND		5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
cis-1,2-Dichloroethene	8.4		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dibromochloromethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dibromomethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dichlorodifluoromethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Ethylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Hexachlorobutadiene	ND		0.50	0.20	ug/L	1	02/24/25	MH	SW8260D	
Isopropylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
m&p-Xylene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Methyl ethyl ketone	ND		2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Methylene chloride	ND		3.0	1.0	ug/L	1	02/24/25	MH	SW8260D	
Naphthalene	ND		1.0	1.0	ug/L	1	02/24/25	MH	SW8260D	
n-Butylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
n-Propylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
o-Xylene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
p-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
sec-Butylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Styrene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
tert-Butylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Tetrachloroethene	8.8		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND		5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	1
Toluene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,2-Dichloroethene	0.82	J	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND		0.40	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND		2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Trichloroethene	7.8		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Trichlorofluoromethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Trichlorotrifluoroethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Vinyl chloride	0.71	J	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
QA/QC Surrogates										
% 1,2-dichlorobenzene-d4	103				%	1	02/24/25	MH	70 - 130 %	
% Bromofluorobenzene	95				%	1	02/24/25	MH	70 - 130 %	
% Dibromofluoromethane	97				%	1	02/24/25	MH	70 - 130 %	
% Toluene-d8	98				%	1	02/24/25	MH	70 - 130 %	
1,4-dioxane										
1,4-dioxane	0.29		0.20	0.20	ug/l	1	02/25/25	AW	SW8270ESIM	1
QA/QC Surrogates										
% 1,4-dioxane-d8	93				%	1	02/25/25	AW	70 - 130 %	

Ver 1

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.5	3.5	ug/L	1	02/25/25	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Dichlorobenzene	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	5.0	1.6	ug/L	1	02/25/25	KCA	SW8270E	
1,3-Dichlorobenzene	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
1,4-Dichlorobenzene	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	5.0	1.4	ug/L	1	02/25/25	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dichlorophenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dimethylphenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dinitrophenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dinitrotoluene	ND	5.0	2.0	ug/L	1	02/25/25	KCA	SW8270E	
2,6-Dinitrotoluene	ND	5.0	1.6	ug/L	1	02/25/25	KCA	SW8270E	
2-Chloronaphthalene	ND	5.0	1.4	ug/L	1	02/25/25	KCA	SW8270E	
2-Chlorophenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2-Methylnaphthalene	ND	5.0	1.5	ug/L	1	02/25/25	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
2-Nitroaniline	ND	5.0	2.0	ug/L	1	02/25/25	KCA	SW8270E	
2-Nitrophenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	5.0	2.3	ug/L	1	02/25/25	KCA	SW8270E	
3-Nitroaniline	ND	5.0	2.0	ug/L	1	02/25/25	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	5.0	1.5	ug/L	1	02/25/25	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
4-Chloroaniline	ND	3.5	2.3	ug/L	1	02/25/25	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	5.0	1.7	ug/L	1	02/25/25	KCA	SW8270E	
4-Nitroaniline	ND	5.0	1.7	ug/L	1	02/25/25	KCA	SW8270E	
4-Nitrophenol	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
Acenaphthene	ND	5.0	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Acetophenone	ND	5.0	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Aniline	ND	3.5	3.5	ug/L	1	02/25/25	KCA	SW8270E	
Anthracene	ND	5.0	1.6	ug/L	1	02/25/25	KCA	SW8270E	
Benzidine	ND	4.5	2.9	ug/L	1	02/25/25	KCA	SW8270E	
Benzoic acid	ND	25	9.9	ug/L	1	02/25/25	KCA	SW8270E	
Benzyl butyl phthalate	ND	5.0	1.3	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	5.0	1.4	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
Carbazole	ND	5.0	3.8	ug/L	1	02/25/25	KCA	SW8270E	
Dibenzofuran	ND	5.0	1.4	ug/L	1	02/25/25	KCA	SW8270E	
Diethyl phthalate	ND	5.0	1.6	ug/L	1	02/25/25	KCA	SW8270E	
Dimethylphthalate	ND	5.0	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Di-n-butylphthalate	ND	5.0	1.3	ug/L	1	02/25/25	KCA	SW8270E	
Di-n-octylphthalate	ND	5.0	1.3	ug/L	1	02/25/25	KCA	SW8270E	
Fluoranthene	ND	5.0	1.6	ug/L	1	02/25/25	KCA	SW8270E	
Fluorene	ND	5.0	1.6	ug/L	1	02/25/25	KCA	SW8270E	

Project ID: 60-66 GERRY ST.
Client ID: 23MW-5

Phoenix I.D.: CS66417

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachloroethane	ND	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
Isophorone	ND	5.0	1.4	ug/L	1	02/25/25	KCA	SW8270E	
Naphthalene	ND	5.0	1.4	ug/L	1	02/25/25	KCA	SW8270E	
N-Nitrosodi-n-propylamine	ND	5.0	1.6	ug/L	1	02/25/25	KCA	SW8270E	
N-Nitrosodiphenylamine	ND	5.0	1.9	ug/L	1	02/25/25	KCA	SW8270E	
Pentachloronitrobenzene	ND	2.5	2.5	ug/L	1	02/25/25	KCA	SW8270E	
Phenol	1.7	0.99	0.99	ug/L	1	02/25/25	KCA	SW8270E	
Pyrene	ND	5.0	1.7	ug/L	1	02/25/25	KCA	SW8270E	
Pyridine	ND	9.9	1.2	ug/L	1	02/25/25	KCA	SW8270E	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	84			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	59			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	59			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	62			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	60			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	56			%	1	02/25/25	KCA	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benz(a)anthracene	0.09	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(a)pyrene	0.11	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(b)fluoranthene	0.09	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(k)fluoranthene	0.08	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Chrysene	0.09	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	0.09	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Nitrobenzene	ND	0.40	0.40	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Pentachlorophenol	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Phenanthrene	ND	0.50	0.50	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	90			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	63			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	59			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	66			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	65			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	57			%	1	02/25/25	KCA	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					02/25/25	G/G	SW8270ESIM	1

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

*See attached

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

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
March 12, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 12, 2025

FOR: Attn: Rachel Ataman
Touchstone Environmental Geology, PC
1919 Middle Country Road
Centereach, NY 11720

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		02/18/25	16:45
Location Code:	TOUCHSTONE	Received by:	SR1	02/20/25	17:55
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCS66415
Phoenix ID: CS66418

Project ID: 60-66 GERRY ST.
Client ID: 23MW-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Silver	ND	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Aluminum	0.030	0.020	0.01	mg/L	1	02/25/25	TH	SW6010D
Arsenic	0.005	0.004	0.004	mg/L	1	02/25/25	TH	SW6010D
Barium	0.091	0.010	0.001	mg/L	1	02/25/25	TH	SW6010D
Beryllium	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Calcium	144	0.010	0.01	mg/L	1	02/25/25	TH	SW6010D
Cadmium	ND	0.004	0.0005	mg/L	1	02/25/25	TH	SW6010D
Cobalt	0.001 J	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Chromium	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Copper	0.002 J	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Iron	0.32	0.01	0.01	mg/L	1	02/25/25	TH	SW6010D
Mercury	ND	0.0002	0.00015	mg/L	1	02/24/25	ZT	SW7470A
Potassium	26.8	1.0	0.10	mg/L	10	02/25/25	TH	SW6010D
Magnesium	8.51	0.010	0.01	mg/L	1	02/25/25	TH	SW6010D
Manganese	0.570	0.005	0.001	mg/L	1	02/25/25	TH	SW6010D
Sodium	108	1.0	0.10	mg/L	10	02/25/25	TH	SW6010D
Nickel	0.004	0.004	0.001	mg/L	1	02/25/25	TH	SW6010D
Lead	ND	0.001	0.001	mg/L	1	02/25/25	TH	SW6010D
Antimony	ND	0.0030	0.0005	mg/L	5	02/24/25	JM	SW6020B
Selenium	0.003 J	0.010	0.0005	mg/L	5	02/24/25	JM	SW6020B
Thallium	ND	0.0005	0.0005	mg/L	5	02/24/25	JM	SW6020B
Vanadium	0.002 J	0.010	0.001	mg/L	1	02/25/25	TH	SW6010D
Zinc	0.008 J	0.010	0.0011	mg/L	1	02/25/25	TH	SW6010D
Mercury Digestion	Completed					02/24/25	AK/AK	SW7470A
PCB Extraction (LDL)	Completed					02/24/25	P/P	SW3510C
Extraction for Pest (LDL)	Completed					02/24/25	P/P	SW3510C
Semi-Volatile Extraction	Completed					02/21/25	L/K/MQ	SW3520C

Ver 1

Project ID: 60-66 GERRY ST.
Client ID: 23MW-2

Phoenix I.D.: CS66418

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Total Metals Digestion	Completed						02/24/25	AG	SW3010A	
Total Metals Digestion MS	Completed						02/21/25	AG	SW3010A	
PFAS (40) by EPA 1633	Completed						02/28/25	AM	EPA 1633 Draft 3	C
PFAS (40) by EPA 1633										
11Cl-PF3OUdS	ND		8.30	1.52	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorodecanesulfonic acid	ND		8.44	2.25	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	ND		8.24	1.97	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
1H,1H,2H,2H-Perfluorooctanesulfonic acid	ND		8.35	8.24	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
3:3FTCA	ND		5.49	2.23	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
5:3FTCA	ND		27.5	8.05	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
7:3FTCA	ND		27.5	10.4	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
9Cl-PF3ONS	ND		8.22	0.769	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
ADONA	ND		8.30	0.582	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
HFPO-DA	ND		8.79	3.55	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSA	ND		2.20	1.98	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSAA	ND		2.20	1.13	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NEtFOSE	ND		22.0	4.38	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NFDHA	ND		4.39	2.35	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSA	ND		2.20	1.74	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSAA	ND		2.20	0.868	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
NMeFOSE	ND		22.0	4.38	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-decanesulfonic acid (PFDS)	ND		2.12	1.45	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		2.10	1.00	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-1-octanesulfonamide (FOSA)	ND		2.20	0.967	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorobutanesulfonic acid (PFBS)	3.23		1.94	0.516	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorodecanoic acid (PFDA)	ND		2.20	0.824	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecane Sulfonic Acid (PFDoDS)	ND		2.13	1.02	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorododecanoic acid (PFDoA)	ND		2.20	0.967	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroheptanoic acid (PFHpA)	9.89		2.20	0.780	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanesulfonic Acid (PFHxS)	2.52		2.01	0.747	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorohexanoic acid (PFHxA)	14.3		2.20	0.384	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoro-n-butanoic acid (PFBA)	16.2		8.79	0.362	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanesulfonic Acid (PFNS)	ND		2.11	0.945	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorononanoic acid (PFNA)	1.07	J	2.20	0.571	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanesulfonic Acid (PFOS)	1.18	J	2.04	0.901	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorooctanoic acid (PFOA)	51.2		2.20	0.461	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanesulfonic Acid (PFPeS)	ND		2.06	0.835	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoropentanoic acid (PFPeA)	14.7		4.39	0.253	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotetradecanoic acid (PFTA)	ND		2.20	0.758	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluorotridecanoic acid (PFTrDA)	ND		2.20	0.813	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
Perfluoroundecanoic acid (PFUnA)	ND		2.20	1.24	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFEESA	ND		3.91	0.549	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMBA	ND		4.39	0.406	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
PFMPA	ND		4.39	0.275	ng/L	1	03/03/25	AM	EPA 1633 Draft 3	C
QA/QC Surrogates										
% d3-N-MeFOSAA	153				%	1	03/03/25	AM	25 - 150 %	C,3
% d5-N-EtFOSAA	160				%	1	03/03/25	AM	25 - 150 %	C,3
% d7-N-MeFOSE	125				%	1	03/03/25	AM	25 - 150 %	C
% d9-N-EtFOSE	127				%	1	03/03/25	AM	25 - 150 %	C

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% d-N-EtFOSA	109			%	1	03/03/25	AM	25 - 150 %	C
% d-N-MeFOSA	106			%	1	03/03/25	AM	25 - 150 %	C
% M2-4:2 FTS	352			%	1	03/03/25	AM	25 - 150 %	C,3
% M2-6:2 FTS	248			%	1	03/03/25	AM	25 - 200 %	C,3
% M2-8:2 FTS	185			%	1	03/03/25	AM	25 - 200 %	C
% M2PFTEDA	104			%	1	03/03/25	AM	10 - 150 %	C
% M3HFPO-DA	165			%	1	03/03/25	AM	25 - 150 %	C,3
% M3PFBS	183			%	1	03/03/25	AM	25 - 150 %	C,3
% M3PFHxS	189			%	1	03/03/25	AM	25 - 150 %	C,3
% M4PFHpA	211			%	1	03/03/25	AM	25 - 150 %	C,3
% M5PFHxA	176			%	1	03/03/25	AM	25 - 150 %	C,3
% M5PFPEA	188			%	1	03/03/25	AM	25 - 150 %	C,3
% M6PFDA	164			%	1	03/03/25	AM	25 - 150 %	C,3
% M7PFUDA	131			%	1	03/03/25	AM	25 - 150 %	C
% M8FOSA	164			%	1	03/03/25	AM	10 - 150 %	C,3
% M8PFOA	171			%	1	03/03/25	AM	25 - 150 %	C,3
% M8PFOS	174			%	1	03/03/25	AM	25 - 150 %	C,3
% M9PFNA	167			%	1	03/03/25	AM	25 - 150 %	C,3
% MPFBA	127			%	1	03/03/25	AM	25 - 150 %	C
% MPFDOA	98.4			%	1	03/03/25	AM	25 - 150 %	C
Pesticides									
4,4' -DDD	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
4,4' -DDE	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
4,4' -DDT	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
a-BHC	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
a-chlordane	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Alachlor	ND	0.075	0.075	ug/L	1	02/26/25	AW	SW8081B	1
Aldrin	ND	0.002	0.002	ug/L	1	02/26/25	AW	SW8081B	
b-BHC	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
Chlordane	ND	0.050	0.050	ug/L	1	02/26/25	AW	SW8081B	
d-BHC	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
Dieldrin	ND	0.002	0.002	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan I	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan II	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endrin	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endrin Aldehyde	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Endrin ketone	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	1	02/26/25	AW	SW8081B	
g-chlordane	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Heptachlor	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Heptachlor epoxide	ND	0.010	0.010	ug/L	1	02/26/25	AW	SW8081B	
Methoxychlor	ND	0.10	0.10	ug/L	1	02/26/25	AW	SW8081B	
Toxaphene	ND	0.20	0.20	ug/L	1	02/26/25	AW	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	84			%	1	02/26/25	AW	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	68			%	1	02/26/25	AW	30 - 150 %	
%TCMX (Surrogate Rec)	68			%	1	02/26/25	AW	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	73			%	1	02/26/25	AW	30 - 150 %	

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Polychlorinated Biphenyls										
PCB-1016	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1221	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1232	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1242	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1248	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1254	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1260	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1262	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
PCB-1268	ND		0.050	0.050	ug/L	1	02/25/25	SC	SW8082A	
QA/QC Surrogates										
% DCBP	76				%	1	02/25/25	SC	30 - 150 %	
% DCBP (Confirmation)	80				%	1	02/25/25	SC	30 - 150 %	
% TCMX	85				%	1	02/25/25	SC	30 - 150 %	
% TCMX (Confirmation)	77				%	1	02/25/25	SC	30 - 150 %	
Volatiles										
1,1,1,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,1-Trichloroethane	0.40	J	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,2,2-Tetrachloroethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1,2-Trichloroethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloroethane	1.7	J	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloroethene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,1-Dichloropropene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,3-Trichlorobenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,3-Trichloropropane	ND		0.25	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,4-Trichlorobenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2,4-Trimethylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dibromo-3-chloropropane	ND		0.50	0.50	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dibromoethane	ND		0.25	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichlorobenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichloroethane	ND		0.60	0.50	ug/L	1	02/24/25	MH	SW8260D	
1,2-Dichloropropane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3,5-Trimethylbenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3-Dichlorobenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,3-Dichloropropane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
1,4-Dichlorobenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2,2-Dichloropropane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2-Chlorotoluene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
2-Hexanone	ND		2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
2-Isopropyltoluene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	1
4-Chlorotoluene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
4-Methyl-2-pentanone	ND		2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acetone	ND		5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acrolein	ND		5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Acrylonitrile	ND		5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	
Benzene	ND		0.70	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromobenzene	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromochloromethane	ND		1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	

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Bromodichloromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromoform	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Bromomethane	ND	5.0	0.50	ug/L	1	02/24/25	MH	SW8260D	
Carbon Disulfide	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Carbon tetrachloride	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chlorobenzene	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloroethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloroform	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Chloromethane	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
cis-1,2-Dichloroethene	7.5	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dibromochloromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dibromomethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Dichlorodifluoromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Ethylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Hexachlorobutadiene	ND	0.50	0.20	ug/L	1	02/24/25	MH	SW8260D	
Isopropylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
m&p-Xylene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Methyl ethyl ketone	ND	2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Methyl t-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Methylene chloride	ND	3.0	1.0	ug/L	1	02/24/25	MH	SW8260D	
Naphthalene	ND	1.0	1.0	ug/L	1	02/24/25	MH	SW8260D	
n-Butylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
n-Propylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
o-Xylene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
p-Isopropyltoluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
sec-Butylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Styrene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
tert-Butylbenzene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Tetrachloroethene	8.8	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Tetrahydrofuran (THF)	ND	5.0	2.5	ug/L	1	02/24/25	MH	SW8260D	1
Toluene	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,2-Dichloroethene	ND	5.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/24/25	MH	SW8260D	
trans-1,4-dichloro-2-butene	ND	2.5	2.5	ug/L	1	02/24/25	MH	SW8260D	
Trichloroethene	3.2	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Trichlorofluoromethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Trichlorotrifluoroethane	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
Vinyl chloride	ND	1.0	0.25	ug/L	1	02/24/25	MH	SW8260D	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	1	02/24/25	MH	70 - 130 %	
% Bromofluorobenzene	93			%	1	02/24/25	MH	70 - 130 %	
% Dibromofluoromethane	104			%	1	02/24/25	MH	70 - 130 %	
% Toluene-d8	98			%	1	02/24/25	MH	70 - 130 %	
1,4-dioxane									
1,4-dioxane	9.3	0.20	0.20	ug/l	1	02/25/25	AW	SW8270ESIM	1
QA/QC Surrogates									
% 1,4-dioxane-d8	84			%	1	02/25/25	AW	70 - 130 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Semivolatiles									
1,2,4,5-Tetrachlorobenzene	ND	3.4	3.4	ug/L	1	02/25/25	KCA	SW8270E	
1,2,4-Trichlorobenzene	ND	4.9	1.5	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Dichlorobenzene	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
1,2-Diphenylhydrazine	ND	4.9	1.6	ug/L	1	02/25/25	KCA	SW8270E	
1,3-Dichlorobenzene	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
1,4-Dichlorobenzene	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4.9	1.3	ug/L	1	02/25/25	KCA	SW8270E	1
2,4,5-Trichlorophenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2,4,6-Trichlorophenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dichlorophenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dimethylphenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dinitrophenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2,4-Dinitrotoluene	ND	4.9	1.9	ug/L	1	02/25/25	KCA	SW8270E	
2,6-Dinitrotoluene	ND	4.9	1.5	ug/L	1	02/25/25	KCA	SW8270E	
2-Chloronaphthalene	ND	4.9	1.4	ug/L	1	02/25/25	KCA	SW8270E	
2-Chlorophenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2-Methylnaphthalene	ND	4.9	1.4	ug/L	1	02/25/25	KCA	SW8270E	
2-Methylphenol (o-cresol)	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
2-Nitroaniline	ND	4.9	1.9	ug/L	1	02/25/25	KCA	SW8270E	
2-Nitrophenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
3&4-Methylphenol (m&p-cresol)	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
3,3'-Dichlorobenzidine	ND	4.9	2.3	ug/L	1	02/25/25	KCA	SW8270E	
3-Nitroaniline	ND	4.9	1.9	ug/L	1	02/25/25	KCA	SW8270E	
4,6-Dinitro-2-methylphenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
4-Bromophenyl phenyl ether	ND	4.9	1.4	ug/L	1	02/25/25	KCA	SW8270E	
4-Chloro-3-methylphenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
4-Chloroaniline	ND	3.4	2.3	ug/L	1	02/25/25	KCA	SW8270E	
4-Chlorophenyl phenyl ether	ND	4.9	1.6	ug/L	1	02/25/25	KCA	SW8270E	
4-Nitroaniline	ND	4.9	1.6	ug/L	1	02/25/25	KCA	SW8270E	
4-Nitrophenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
Acenaphthene	ND	4.9	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Acetophenone	ND	4.9	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Aniline	ND	3.4	3.4	ug/L	1	02/25/25	KCA	SW8270E	
Anthracene	ND	4.9	1.6	ug/L	1	02/25/25	KCA	SW8270E	
Benzidine	ND	4.4	2.9	ug/L	1	02/25/25	KCA	SW8270E	
Benzoic acid	ND	24	9.7	ug/L	1	02/25/25	KCA	SW8270E	
Benzyl butyl phthalate	ND	4.9	1.3	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-chloroethoxy)methane	ND	4.9	1.3	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-chloroethyl)ether	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
Bis(2-ethylhexyl)phthalate	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
Carbazole	ND	4.9	3.7	ug/L	1	02/25/25	KCA	SW8270E	
Dibenzofuran	ND	4.9	1.4	ug/L	1	02/25/25	KCA	SW8270E	
Diethyl phthalate	ND	4.9	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Dimethylphthalate	ND	4.9	1.5	ug/L	1	02/25/25	KCA	SW8270E	
Di-n-butylphthalate	ND	4.9	1.3	ug/L	1	02/25/25	KCA	SW8270E	
Di-n-octylphthalate	ND	4.9	1.3	ug/L	1	02/25/25	KCA	SW8270E	
Fluoranthene	ND	4.9	1.6	ug/L	1	02/25/25	KCA	SW8270E	
Fluorene	ND	4.9	1.6	ug/L	1	02/25/25	KCA	SW8270E	

Project ID: 60-66 GERRY ST.
Client ID: 23MW-2

Phoenix I.D.: CS66418

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Hexachloroethane	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
Isophorone	ND	2.4	2.4	ug/L	1	02/25/25	KCA	SW8270E	
Naphthalene	ND	4.9	1.4	ug/L	1	02/25/25	KCA	SW8270E	
N-Nitrosodi-n-propylamine	ND	4.9	1.6	ug/L	1	02/25/25	KCA	SW8270E	
N-Nitrosodiphenylamine	ND	4.9	1.9	ug/L	1	02/25/25	KCA	SW8270E	
Pentachloronitrobenzene	ND	2.4	2.4	ug/L	1	02/25/25	KCA	SW8270E	
Phenol	ND	0.97	0.97	ug/L	1	02/25/25	KCA	SW8270E	
Pyrene	ND	4.9	1.7	ug/L	1	02/25/25	KCA	SW8270E	
Pyridine	ND	9.7	1.2	ug/L	1	02/25/25	KCA	SW8270E	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	78			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	58			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	50			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	64			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	15			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	45			%	1	02/25/25	KCA	30 - 130 %	
Semivolatiles									
Acenaphthylene	ND	0.49	0.49	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benz(a)anthracene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(a)pyrene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(b)fluoranthene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(ghi)perylene	ND	0.49	0.49	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Benzo(k)fluoranthene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Chrysene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Dibenz(a,h)anthracene	ND	0.49	0.49	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobenzene	ND	0.04	0.04	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorobutadiene	ND	0.49	0.49	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Hexachlorocyclopentadiene	ND	0.49	0.49	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Nitrobenzene	ND	0.39	0.39	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
N-Nitrosodimethylamine	ND	0.10	0.10	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Pentachlorophenol	ND	0.49	0.49	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
Phenanthrene	ND	0.49	0.49	ug/L	1	02/25/25	KCA	SW8270E (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	91			%	1	02/25/25	KCA	15 - 110 %	
% 2-Fluorobiphenyl	58			%	1	02/25/25	KCA	30 - 130 %	
% 2-Fluorophenol	50			%	1	02/25/25	KCA	15 - 110 %	
% Nitrobenzene-d5	70			%	1	02/25/25	KCA	30 - 130 %	
% Phenol-d5	18			%	1	02/25/25	KCA	15 - 110 %	
% Terphenyl-d14	57			%	1	02/25/25	KCA	30 - 130 %	
Extraction for 1,4-Dioxane	Completed					02/25/25	G/G	SW8270ESIM	1

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

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

Comments:

*See attached

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

Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

Semi-Volatile Comment:
To achieve client's objectives, where the lowest calibration standard or LOD justifies lowering the RL/PQL, the RL/PQL of some compounds have been lowered to meet criteria.

PFAS (40) by EPA 1633 (EPA 1633 Draft 3), PFOA/PFOS - Water Extraction (EPA 1633 Draft 3) were analyzed by NY certified lab #12058.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
March 12, 2025
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

NY # 11301

QA/QC Report

March 12, 2025

QA/QC Data

SDG I.D.: GCS66415

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 771980 (mg/L), QC Sample No: CS66019 (CS66415)														
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0002	NC	105			111			75 - 125	20	
QA/QC Batch 771781 (mg/L), QC Sample No: CS66135 (CS66415)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	102			101			75 - 125	20	
QA/QC Batch 771977 (mg/L), QC Sample No: CS67021 (CS66416, CS66417, CS66418)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	106			76.3			75 - 125	20	
QA/QC Batch 771655 (mg/L), QC Sample No: CS66017 (CS66415)														
ICP Metals - Dissolved														
Aluminum	BRL	0.011	<0.011	<0.011	NC	83.9	85.0	1.3	86.9			80 - 120	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	86.0	86.3	0.3	88.4			80 - 120	20	
Barium	BRL	0.002	0.009	0.009	NC	86.3	87.7	1.6	89.5			80 - 120	20	
Beryllium	BRL	0.001	<0.001	<0.001	NC	87.1	87.5	0.5	89.4			80 - 120	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	85.2	86.0	0.9	88.0			80 - 120	20	
Calcium	BRL	0.01	12.5	12.5	0	85.8	86.5	0.8	NC			80 - 120	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	86.2	86.9	0.8	89.3			80 - 120	20	
Cobalt	BRL	0.001	<0.001	<0.001	NC	85.0	85.7	0.8	87.7			80 - 120	20	
Copper	BRL	0.005	<0.005	<0.005	NC	85.8	87.0	1.4	89.3			80 - 120	20	
Iron	BRL	0.011	0.014	0.014	NC	85.3	86.1	0.9	88.4			80 - 120	20	
Lead	BRL	0.002	<0.002	<0.002	NC	86.1	86.6	0.6	88.1			80 - 120	20	
Magnesium	BRL	0.01	3.56	3.56	0	86.4	87.3	1.0	91.4			80 - 120	20	
Manganese	BRL	0.001	0.056	0.057	1.80	85.5	86.6	1.3	88.4			80 - 120	20	
Nickel	BRL	0.001	<0.001	<0.001	NC	85.0	85.6	0.7	87.5			80 - 120	20	
Potassium	BRL	0.1	1.3	1.3	0	86.7	87.2	0.6	88.8			80 - 120	20	
Silver	BRL	0.001	<0.001	<0.001	NC	84.4	85.1	0.8	87.3			70 - 130	30	
Sodium	BRL	0.11	18.2	18.2	0	98.3	96.2	2.2	NC			80 - 120	20	
Vanadium	BRL	0.002	<0.002	<0.002	NC	85.8	86.7	1.0	89.0			80 - 120	20	
Zinc	BRL	0.002	<0.002	<0.002	NC	84.8	85.3	0.6	87.9			80 - 120	20	
QA/QC Batch 772047 (mg/L), QC Sample No: CS66413 (CS66415, CS66416, CS66417, CS66418)														
ICP Metals - Aqueous														
Aluminum	BRL	0.020	2.63	2.38	10.0	100	101	1.0	>130			80 - 120	20	m
Arsenic	BRL	0.004	<0.004	0.005	NC	89.2	90.9	1.9	89.3			80 - 120	20	
Barium	BRL	0.002	0.035	0.035	0	104	105	1.0	103			80 - 120	20	
Beryllium	BRL	0.001	<0.001	<0.001	NC	101	101	0.0	99.8			80 - 120	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	101	101	0.0	99.2			80 - 120	20	
Calcium	BRL	0.010	33.5	34.2	2.10	99.7	100	0.3	NC			80 - 120	20	
Chromium	BRL	0.001	0.003	0.003	NC	97.9	98.2	0.3	97.2			80 - 120	20	
Cobalt	BRL	0.002	<0.002	<0.002	NC	101	101	0.0	99.2			80 - 120	20	
Copper	BRL	0.005	<0.005	<0.005	NC	101	102	1.0	101			80 - 120	20	
Iron	BRL	0.010	3.48	3.27	6.20	102	102	0.0	96.0			80 - 120	20	
Lead	BRL	0.001	<0.001	<0.001	NC	101	102	1.0	100			80 - 120	20	
Magnesium	BRL	0.010	11.0	11.1	0.90	102	103	1.0	NC			80 - 120	20	
Manganese	BRL	0.001	0.249	0.250	0.40	101	102	1.0	100			80 - 120	20	

QA/QC Data

SDG I.D.: GCS66415

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Nickel	BRL	0.001	0.003	0.003	NC	99.9	100	0.1	98.6			80 - 120	20
Potassium	BRL	0.1	1.9	1.9	0	98.5	99.3	0.8	99.9			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	101	102	1.0	101			70 - 130	30
Sodium	BRL	0.10	7.74	7.87	1.70	98.1	98.5	0.4	NC			80 - 120	20
Vanadium	BRL	0.002	0.003	0.004	NC	94.0	94.6	0.6	93.8			80 - 120	20
Zinc	BRL	0.004	0.019	0.019	NC	99.5	100	0.5	98.8			80 - 120	20
QA/QC Batch 771844 (mg/L), QC Sample No: CS65898 5X (CS66415, CS66416, CS66417, CS66418)													
ICP MS Metals - Aqueous													
Antimony	BRL	0.0030	<0.0030	<0.0030	NC	105	99.6	5.3	99.8			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	109	106	2.8	107			80 - 120	20
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	99.4	96.8	2.7	101			80 - 120	20
QA/QC Batch 772086 (mg/L), QC Sample No: CS66415 2X (CS66415)													
ICP Metals MS - Dissolved													
Antimony	BRL	0.0006	<0.0006	<0.0006	NC	89.3	91.4	2.3	90.3			80 - 120	20
Selenium	BRL	0.004	BRL J	0.001 J	NC	96.3	98.5	2.3	93.6			80 - 120	20
Thallium	BRL	0.0006	<0.0005	<0.0006	NC	91.4	92.0	0.7	90.7			80 - 120	20

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

Environmental Laboratories, Inc.
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NY # 11301

QA/QC Report

March 12, 2025

QA/QC Data

SDG I.D.: GCS66415

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 771941 (mg/L), QC Sample No: CS66282 (CS66415)													
Total Organic Carbon	BRL	1.0	<1.0	<1.0	NC	97.0			114			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 771836 (mg/L), QC Sample No: CS66294 (CS66415)													
Alkalinity-CaCO3	BRL	5.00	320	321	0.30	94.6						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 772156 (mg/L), QC Sample No: CS67667 (CS66415)													
Sulfide	BRL	0.05	<0.05	<0.05	NC	98.2			92.1			90 - 110	20
QA/QC Batch 771823 (mg/L), QC Sample No: CS66413 (CS66415)													
Chloride	BRL	5.0	8.2	8.1	NC	92.0			96.1			90 - 110	20
Sulfate	BRL	5.0	<5.0	<5.0	NC	91.6			103			90 - 110	20
QA/QC Batch 771823 (mg/L), QC Sample No: CS66413 (CS66415)													
Nitrate as Nitrogen	BRL	0.05	1.56	1.57	0.60	93.9			93.7			90 - 110	20

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QA/QC Report

March 12, 2025

QA/QC Data

SDG I.D.: GCS66415

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 772923 (ng/L), QC Sample No: CS66415 (CS66415, CS66416, CS66417, CS66418)										
PFOA & PFOS										
11Cl-PF3OUdS	ND	7.56	94.0	108					50 - 150	
3:3FTCA	ND	5.00	59.4	56.3					50 - 150	
4:2FTS	ND	7.50	106	113					50 - 150	
5:3FTCA	ND	25.0	101	97.8					50 - 150	
6:2FTS	ND	7.60	100	112					50 - 150	
7:3FTCA	ND	25.0	102	101					50 - 150	
8:2FTS	ND	7.68	104	114					50 - 150	
9Cl-PF3ONS	ND	7.48	108	120					50 - 150	
ADONA	ND	7.56	126	141					50 - 150	
FOSA	ND	2.00	88.9	94.8					50 - 150	
HFPO-DA	ND	8.00	114	107					50 - 150	
NEtFOSA	ND	2.00	91.0	69.8					50 - 150	
NEtFOSAA	ND	2.00	97.5	97.4					50 - 150	
NEtFOSE	ND	20.0	87.6	112					50 - 150	
NFDHA	ND	4.00	89.2	98.4					50 - 150	
NMeFOSA	ND	2.00	105	144					50 - 150	
NMeFOSAA	ND	2.00	97.4	94.9					50 - 150	
NMeFOSE	ND	20.0	108	127					50 - 150	
PFBA	ND	8.00	86.0	83.2					50 - 150	
PFBS	ND	1.77	99.0	99.9					50 - 150	
PFDA	ND	2.00	96.8	106					50 - 150	
PFDoA	ND	2.00	98.8	102					50 - 150	
PFDoDS	ND	1.94	68.1	81.3					50 - 150	
PFDS	ND	1.93	81.0	88.1					50 - 150	
PFEESA	ND	3.56	98.9	95.3					50 - 150	
PFHpA	ND	2.00	98.8	93.7					50 - 150	
PFHpS	ND	1.91	89.8	97.3					50 - 150	
PFHxA	ND	2.00	97.6	97.6					50 - 150	
PFHxS	ND	1.83	110	111					50 - 150	
PFMBA	ND	4.00	130	144					50 - 150	
PFMPA	ND	4.00	22.9	19.0					50 - 150	
PFNA	ND	2.00	117	101					50 - 150	
PFNS	ND	1.92	102	114					50 - 150	
PFOA	ND	2.00	107	117					50 - 150	
PFOS	ND	1.86	95.1	110					50 - 150	
PFPeA	ND	4.00	102	106					50 - 150	
PFPeS	ND	1.88	97.3	99.3					50 - 150	
PFTA	ND	2.00	100	116					50 - 150	
PFTrDA	ND	2.00	97.1	119					50 - 150	
PFUnA	ND	2.00	97.7	96.9					50 - 150	
% d3-N-MeFOSAA	126		116	134					25 - 150	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% d5-N-EtFOSAA	135		125	143					25 - 150		
% M2-4:2 FTS	183		149	163					25 - 150		l,s
% M2-6:2 FTS	185		156	177					25 - 200		
% M2-8:2 FTS	169		138	151					25 - 200		
% M2PFTEDA	82.3		87.4	82.3					10 - 150		
% M3HFPO-DA	109		109	111					25 - 150		
% M3PFBS	140		118	133					25 - 150		
% M3PFHxS	139		116	139					25 - 150		
% M4PFHpA	143		130	150					25 - 150		
% M5PFHxA	118		116	130					25 - 150		
% M5PFPEA	79.2		76.0	68.5					25 - 150		
% M6PFDA	130		112	125					25 - 150		
% M7PFUDA	119		111	117					25 - 150		
% M8FOSA	114		114	128					10 - 150		
% M8PFOA	116		114	127					25 - 150		
% M8PFOS	112		117	126					25 - 150		
% M9PFNA	132		106	131					25 - 150		
% MPFBA	5.39		5.78	4.24					25 - 150		l,s
% MPFDOA	97.3		88.9	109					25 - 150		

Comment:

LCS/LCSD are spiked per method at different levels, no RPD is provided.

QA/QC Batch 772140 (ug/l), QC Sample No: CS66017 (CS66415, CS66416, CS66417, CS66418)

1,4dioxane - Ground Water

1,4-dioxane (ISO)	ND	0.20	93	103	10.2	93			70 - 130	20	
% 1,4-dioxane-d8 (ISO)	81	%	94	91	3.2	89			70 - 130	20	

QA/QC Batch 772026 (ug/L), QC Sample No: CS66415 (CS66415, CS66416, CS66417, CS66418)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.050	95	116	19.9				40 - 140	20	
PCB-1221	ND	0.050							40 - 140	20	
PCB-1232	ND	0.050							40 - 140	20	
PCB-1242	ND	0.050							40 - 140	20	
PCB-1248	ND	0.050							40 - 140	20	
PCB-1254	ND	0.050							40 - 140	20	
PCB-1260	ND	0.050	111	110	0.9				40 - 140	20	
PCB-1262	ND	0.050							40 - 140	20	
PCB-1268	ND	0.050							40 - 140	20	
% DCBP (Surrogate Rec)	93	%	114	114	0.0				30 - 150	20	
% DCBP (Surrogate Rec) (Confirm	83	%	98	131	28.8				30 - 150	20	r
% TCMX (Surrogate Rec)	76	%	93	111	17.6				30 - 150	20	
% TCMX (Surrogate Rec) (Confirm	76	%	94	109	14.8				30 - 150	20	

Comment:

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

QA/QC Batch 772028 (ug/L), QC Sample No: CS66415 (CS66415, CS66416, CS66417, CS66418)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	113	115	1.8				40 - 140	20	
4,4' -DDE	ND	0.003	96	99	3.1				40 - 140	20	
4,4' -DDT	ND	0.003	82	88	7.1				40 - 140	20	
a-BHC	ND	0.002	89	92	3.3				40 - 140	20	
a-Chlordane	ND	0.005	77	88	13.3				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	79	74	6.5				40 - 140	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
b-BHC	ND	0.002	94	95	1.1				40 - 140	20	
Chlordane	ND	0.050	86	93	7.8				40 - 140	20	
d-BHC	ND	0.005	71	77	8.1				40 - 140	20	
Dieldrin	ND	0.002	100	106	5.8				40 - 140	20	
Endosulfan I	ND	0.005	79	80	1.3				40 - 140	20	
Endosulfan II	ND	0.005	93	102	9.2				40 - 140	20	
Endosulfan sulfate	ND	0.005	92	95	3.2				40 - 140	20	
Endrin	ND	0.005	109	112	2.7				40 - 140	20	
Endrin aldehyde	ND	0.005	84	91	8.0				40 - 140	20	
Endrin ketone	ND	0.005	93	99	6.3				40 - 140	20	
g-BHC	ND	0.002	94	95	1.1				40 - 140	20	
g-Chlordane	ND	0.005	86	93	7.8				40 - 140	20	
Heptachlor	ND	0.005	80	83	3.7				40 - 140	20	
Heptachlor epoxide	ND	0.005	90	102	12.5				40 - 140	20	
Methoxychlor	ND	0.005	102	105	2.9				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	85	%	90	99	9.5				30 - 150	20	
% DCBP (Confirmation)	92	%	82	95	14.7				30 - 150	20	
% TCMX	64	%	76	72	5.4				30 - 150	20	
% TCMX (Confirmation)	68	%	71	80	11.9				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 771856 (ug/L), QC Sample No: CS66586 (CS66415, CS66416, CS66417, CS66418)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	70	74	5.6				30 - 130	20	
1,2,4-Trichlorobenzene	ND	3.5	74	77	4.0				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	71	73	2.8				30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	48	30	46.2				30 - 130	20	r
1,3-Dichlorobenzene	ND	1.0	68	72	5.7				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	69	72	4.3				30 - 130	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	69	71	2.9				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	79	85	7.3				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	82	88	7.1				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	82	84	2.4				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	90	92	2.2				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	90	94	4.3				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	92	97	5.3				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	91	98	7.4				30 - 130	20	
2-Chloronaphthalene	ND	3.5	78	80	2.5				30 - 130	20	
2-Chlorophenol	ND	1.0	72	75	4.1				30 - 130	20	
2-Methylnaphthalene	ND	3.5	77	80	3.8				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	76	81	6.4				30 - 130	20	
2-Nitroaniline	ND	3.5	103	91	12.4				30 - 130	20	
2-Nitrophenol	ND	1.0	101	104	2.9				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	73	77	5.3				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	<10	<10	NC				30 - 130	20	l
3-Nitroaniline	ND	5.0	23	17	30.0				30 - 130	20	l,r
4,6-Dinitro-2-methylphenol	ND	1.0	84	89	5.8				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	84	89	5.8				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	90	93	3.3				30 - 130	20	
4-Chloroaniline	ND	3.5	15	<10	NC				30 - 130	20	l

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorophenyl phenyl ether	ND	1.0	82	91	10.4				30 - 130	20	
4-Nitroaniline	ND	5.0	100	107	6.8				30 - 130	20	
4-Nitrophenol	ND	1.0	102	110	7.5				30 - 130	20	
Acenaphthene	ND	1.5	77	69	11.0				30 - 130	20	
Acetophenone	ND	3.5	67	71	5.8				30 - 130	20	
Aniline	ND	3.5	17	<10	NC				30 - 130	20	l
Anthracene	ND	1.5	76	70	8.2				30 - 130	20	
Benzidine	ND	4.5	<10	<10	NC				30 - 130	20	l
Benzoic acid	ND	10	81	88	8.3				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	85	46	59.5				30 - 130	20	r
Bis(2-chloroethoxy)methane	ND	3.5	<10	<10	NC				30 - 130	20	l
Bis(2-chloroethyl)ether	ND	1.0	78	80	2.5				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	93	50	60.1				30 - 130	20	r
Carbazole	ND	5.0	23	18	24.4				30 - 130	20	l,r
Dibenzofuran	ND	3.5	75	81	7.7				30 - 130	20	
Diethyl phthalate	ND	1.5	93	63	38.5				30 - 130	20	r
Dimethylphthalate	ND	1.5	88	74	17.3				30 - 130	20	
Di-n-butylphthalate	ND	1.5	99	56	55.5				30 - 130	20	r
Di-n-octylphthalate	ND	1.5	93	49	62.0				30 - 130	20	r
Fluoranthene	ND	1.5	85	73	15.2				30 - 130	20	
Fluorene	ND	1.5	83	90	8.1				30 - 130	20	
Hexachloroethane	ND	3.5	78	81	3.8				30 - 130	20	
Isophorone	ND	3.5	84	85	1.2				30 - 130	20	
Naphthalene	ND	1.5	75	77	2.6				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	3.5	85	95	11.1				30 - 130	20	
N-Nitrosodiphenylamine	ND	3.5	56	63	11.8				30 - 130	20	
Pentachloronitrobenzene	ND	5.0	96	102	6.1				30 - 130	20	
Phenol	ND	1.0	66	65	1.5				30 - 130	20	
Pyrene	ND	1.5	78	48	47.6				30 - 130	20	r
Pyridine	ND	5.0	<10	<10	NC				30 - 130	20	l
% 2,4,6-Tribromophenol	68	%	109	113	3.6				15 - 110	20	l
% 2-Fluorobiphenyl	77	%	70	74	5.6				30 - 130	20	
% 2-Fluorophenol	52	%	71	72	1.4				15 - 110	20	
% Nitrobenzene-d5	51	%	76	79	3.9				30 - 130	20	
% Phenol-d5	34	%	69	50	31.9				15 - 110	20	r
% Terphenyl-d14	49	%	78	63	21.3				30 - 130	20	r

Comment:

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

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

QA/QC Batch 771856 (ug/L), QC Sample No: CS66586 (CS66415, CS66416, CS66417, CS66418)

Semivolatiles (SIM) - Ground Water

Acenaphthylene	ND	0.50	38	42	10.0				30 - 130	20	
Benz(a)anthracene	ND	0.50	71	64	10.4				30 - 130	20	
Benzo(a)pyrene	ND	0.50	59	58	1.7				30 - 130	20	
Benzo(b)fluoranthene	ND	0.50	73	73	0.0				30 - 130	20	
Benzo(ghi)perylene	ND	0.50	69	70	1.4				30 - 130	20	
Benzo(k)fluoranthene	ND	0.50	75	75	0.0				30 - 130	20	
Chrysene	ND	0.50	69	64	7.5				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.50	83	82	1.2				30 - 130	20	
Hexachlorobenzene	ND	0.50	69	63	9.1				30 - 130	20	
Hexachlorobutadiene	ND	0.50	73	66	10.1				30 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorocyclopentadiene	ND	0.50	41	36	13.0				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.50	78	76	2.6				30 - 130	20	
Nitrobenzene	ND	0.50	79	68	15.0				30 - 130	20	
N-Nitrosodimethylamine	ND	0.05	65	60	8.0				30 - 130	20	
Pentachlorophenol	ND	0.50	115	101	13.0				30 - 130	20	
Phenanthrene	ND	0.50	65	60	8.0				30 - 130	20	
% 2,4,6-Tribromophenol	99	%	89	77	14.5				15 - 110	20	
% 2-Fluorobiphenyl	136	%	59	53	10.7				30 - 130	20	s
% 2-Fluorophenol	49	%	60	56	6.9				15 - 110	20	
% Nitrobenzene-d5	56	%	64	55	15.1				30 - 130	20	
% Phenol-d5	27	%	60	56	6.9				15 - 110	20	
% Terphenyl-d14	65	%	70	63	10.5				30 - 130	20	

Comment:

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

QA/QC Batch 772172 (ug/L), QC Sample No: CS65906 (CS66415 (20X))

Volatiles - Ground Water

Vinyl chloride	ND	1.0	109	111	1.8				70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	100	98	2.0				70 - 130	30	
% Bromofluorobenzene	93	%	100	100	0.0				70 - 130	30	
% Dibromofluoromethane	92	%	87	102	15.9				70 - 130	30	
% Toluene-d8	97	%	100	99	1.0				70 - 130	30	

Comment:

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

QA/QC Batch 772370 (ug/L), QC Sample No: CS66787 (CS66416)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	103	108	4.7				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	94	90	4.3				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	100	102	2.0				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	97	99	2.0				70 - 130	30	
1,1-Dichloroethane	ND	1.0	92	112	19.6				70 - 130	30	
1,1-Dichloroethene	ND	1.0	87	104	17.8				70 - 130	30	
1,1-Dichloropropene	ND	1.0	94	80	16.1				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	112	118	5.2				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	94	98	4.2				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	112	115	2.6				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	102	108	5.7				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	102	112	9.3				70 - 130	30	
1,2-Dibromoethane	ND	1.0	99	104	4.9				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	99	103	4.0				70 - 130	30	
1,2-Dichloroethane	ND	1.0	92	97	5.3				70 - 130	30	
1,2-Dichloropropane	ND	1.0	96	100	4.1				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	102	108	5.7				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	100	104	3.9				70 - 130	30	
1,3-Dichloropropane	ND	1.0	100	104	3.9				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	97	103	6.0				70 - 130	30	
2,2-Dichloropropane	ND	1.0	98	105	6.9				70 - 130	30	
2-Chlorotoluene	ND	1.0	100	105	4.9				70 - 130	30	
2-Hexanone	ND	5.0	95	97	2.1				70 - 130	30	
2-Isopropyltoluene	ND	1.0	103	107	3.8				70 - 130	30	
4-Chlorotoluene	ND	1.0	99	104	4.9				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	95	98	3.1				70 - 130	30	

QA/QC Data

SDG I.D.: GCS66415

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acetone	ND	5.0	88	107	19.5				70 - 130	30
Acrolein	ND	5.0	90	106	16.3				70 - 130	30
Acrylonitrile	ND	5.0	90	113	22.7				70 - 130	30
Benzene	ND	0.70	99	82	18.8				70 - 130	30
Bromobenzene	ND	1.0	100	104	3.9				70 - 130	30
Bromochloromethane	ND	1.0	112	106	5.5				70 - 130	30
Bromodichloromethane	ND	0.50	98	100	2.0				70 - 130	30
Bromoform	ND	1.0	106	112	5.5				70 - 130	30
Bromomethane	ND	1.0	87	99	12.9				70 - 130	30
Carbon Disulfide	ND	1.0	91	110	18.9				70 - 130	30
Carbon tetrachloride	ND	1.0	97	95	2.1				70 - 130	30
Chlorobenzene	ND	1.0	101	103	2.0				70 - 130	30
Chloroethane	ND	1.0	96	111	14.5				70 - 130	30
Chloroform	ND	1.0	106	102	3.8				70 - 130	30
Chloromethane	ND	1.0	101	113	11.2				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	91	108	17.1				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	97	102	5.0				70 - 130	30
Dibromochloromethane	ND	0.50	105	106	0.9				70 - 130	30
Dibromomethane	ND	1.0	97	100	3.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	107	119	10.6				70 - 130	30
Ethylbenzene	ND	1.0	103	106	2.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	98	102	4.0				70 - 130	30
Isopropylbenzene	ND	1.0	102	106	3.8				70 - 130	30
m&p-Xylene	ND	1.0	102	106	3.8				70 - 130	30
Methyl ethyl ketone	ND	5.0	93	83	11.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	92	109	16.9				70 - 130	30
Methylene chloride	ND	1.0	88	106	18.6				70 - 130	30
Naphthalene	ND	1.0	98	103	5.0				70 - 130	30
n-Butylbenzene	ND	1.0	100	105	4.9				70 - 130	30
n-Propylbenzene	ND	1.0	100	103	3.0				70 - 130	30
o-Xylene	ND	1.0	104	107	2.8				70 - 130	30
p-Isopropyltoluene	ND	1.0	101	107	5.8				70 - 130	30
sec-Butylbenzene	ND	1.0	99	104	4.9				70 - 130	30
Styrene	ND	1.0	104	108	3.8				70 - 130	30
tert-Butylbenzene	ND	1.0	99	104	4.9				70 - 130	30
Tetrachloroethene	ND	1.0	94	100	6.2				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	99	86	14.1				70 - 130	30
Toluene	ND	1.0	95	101	6.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	93	109	15.8				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	101	102	1.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	93	97	4.2				70 - 130	30
Trichloroethene	ND	1.0	94	98	4.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	90	100	10.5				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	91	106	15.2				70 - 130	30
Vinyl chloride	ND	1.0	97	108	10.7				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	101	102	1.0				70 - 130	30
% Bromofluorobenzene	93	%	98	97	1.0				70 - 130	30
% Dibromofluoromethane	104	%	100	93	7.3				70 - 130	30
% Toluene-d8	97	%	98	97	1.0				70 - 130	30

Comment:

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

QA/QC Data

SDG I.D.: GCS66415

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 772168 (ug/L), QC Sample No: CS67658 (CS66415, CS66417, CS66418)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	103	105	1.9				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	96	96	0.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	98	98	0.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	99	102	3.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	98	101	3.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	90	92	2.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	98	97	1.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	111	111	0.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	95	93	2.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	109	109	0.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	103	103	0.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	103	100	3.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	100	104	3.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	100	99	1.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	96	97	1.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	98	101	3.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	102	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	100	100	0.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	101	100	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	98	98	0.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	95	102	7.1				70 - 130	30
2-Chlorotoluene	ND	1.0	101	101	0.0				70 - 130	30
2-Hexanone	ND	5.0	95	94	1.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	103	101	2.0				70 - 130	30
4-Chlorotoluene	ND	1.0	102	101	1.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	97	100	3.0				70 - 130	30
Acetone	ND	5.0	94	93	1.1				70 - 130	30
Acrolein	ND	5.0	93	100	7.3				70 - 130	30
Acrylonitrile	ND	5.0	98	103	5.0				70 - 130	30
Benzene	ND	0.70	101	102	1.0				70 - 130	30
Bromobenzene	ND	1.0	102	100	2.0				70 - 130	30
Bromochloromethane	ND	1.0	107	100	6.8				70 - 130	30
Bromodichloromethane	ND	0.50	100	103	3.0				70 - 130	30
Bromoform	ND	1.0	106	105	0.9				70 - 130	30
Bromomethane	ND	1.0	88	93	5.5				70 - 130	30
Carbon Disulfide	ND	1.0	94	100	6.2				70 - 130	30
Carbon tetrachloride	ND	1.0	100	89	11.6				70 - 130	30
Chlorobenzene	ND	1.0	100	102	2.0				70 - 130	30
Chloroethane	ND	1.0	101	107	5.8				70 - 130	30
Chloroform	ND	1.0	110	97	12.6				70 - 130	30
Chloromethane	ND	1.0	100	105	4.9				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	102	108	5.7				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	101	102	1.0				70 - 130	30
Dibromochloromethane	ND	0.50	104	105	1.0				70 - 130	30
Dibromomethane	ND	1.0	98	102	4.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	103	106	2.9				70 - 130	30
Ethylbenzene	ND	1.0	101	102	1.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	98	97	1.0				70 - 130	30
Isopropylbenzene	ND	1.0	102	100	2.0				70 - 130	30
m&p-Xylene	ND	1.0	103	104	1.0				70 - 130	30

QA/QC Data

SDG I.D.: GCS66415

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Methyl ethyl ketone	ND	5.0	98	100	2.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	103	6.0				70 - 130	30
Methylene chloride	ND	1.0	94	99	5.2				70 - 130	30
Naphthalene	ND	1.0	97	96	1.0				70 - 130	30
n-Butylbenzene	ND	1.0	100	100	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	100	98	2.0				70 - 130	30
o-Xylene	ND	1.0	103	103	0.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	101	100	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	101	98	3.0				70 - 130	30
Styrene	ND	1.0	105	105	0.0				70 - 130	30
tert-Butylbenzene	ND	1.0	100	99	1.0				70 - 130	30
Tetrachloroethene	ND	1.0	97	100	3.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	99	90	9.5				70 - 130	30
Toluene	ND	1.0	99	100	1.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	96	101	5.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	102	106	3.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	95	95	0.0				70 - 130	30
Trichloroethene	ND	1.0	99	99	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	94	96	2.1				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	94	98	4.2				70 - 130	30
Vinyl chloride	ND	1.0	99	101	2.0				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	99	1.0				70 - 130	30
% Bromofluorobenzene	95	%	99	101	2.0				70 - 130	30
% Dibromofluoromethane	99	%	100	89	11.6				70 - 130	30
% Toluene-d8	98	%	97	99	2.0				70 - 130	30

Comment:

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
March 12, 2025

Wednesday, March 12, 2025

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCS66415 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS66415	$8260DP25R	Vinyl chloride	NY / TAGM - Volatile Organics / Groundwater Standards	200	20	2	2	ug/L
CS66415	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CS66415	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CS66415	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	85	1.0	5	5	ug/L
CS66415	$8260DP25R	Vinyl chloride	NY / TOGS - Water Quality / GA Criteria	200	20	2	2	ug/L
CS66415	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CS66415	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66415	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66415	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.28	0.06	0.06	ug/L
CS66415	DMN-WMDP	Manganese, (Dissolved)	NY / TOGS - Water Quality / GA Criteria	1.30	0.005	0.3	0.3	mg/L
CS66415	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	63.6	1.1	20	20	mg/L
CS66415	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	15.7	0.01	0.3	0.3	mg/L
CS66415	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	1.50	0.005	0.3	0.3	mg/L
CS66415	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	68.5	1.0	20	20	mg/L
CS66416	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CS66416	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CS66416	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CS66416	$DP8270-SIMF	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	1.1	1.0	1	1	ug/L
CS66416	$DP8270-SIMF	Phenol	NY / TOGS - Water Quality / GA Criteria	1.1	1.0	1	1	ug/L
CS66416	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66416	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66416	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.26	0.06	0.06	ug/L
CS66416	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	54.2	1.0	20	20	mg/L

Wednesday, March 12, 2025

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCS66415 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS66416	SB-WM-MS	Antimony	NY / TOGS - Water Quality / GA Criteria	0.0059	0.0030	0.003	0.003	mg/L
CS66416	SE-WM-MS	Selenium	NY / TOGS - Water Quality / GA Criteria	0.037	0.010	0.01	0.01	mg/L
CS66417	$8260DP25R	Trichloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	7.8	1.0	5	5	ug/L
CS66417	$8260DP25R	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	8.8	1.0	5	5	ug/L
CS66417	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	8.4	1.0	5	5	ug/L
CS66417	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CS66417	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CS66417	$8260DP25R	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	8.8	1.0	5	5	ug/L
CS66417	$8260DP25R	Trichloroethene	NY / TOGS - Water Quality / GA Criteria	7.8	1.0	5	5	ug/L
CS66417	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CS66417	$DP8270-SIMF	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	1.7	0.99	1	1	ug/L
CS66417	$DP8270-SIMF	Phenol	NY / TOGS - Water Quality / GA Criteria	1.7	0.99	1	1	ug/L
CS66417	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.08	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.11	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
CS66417	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.08	0.02	0.002	0.002	ug/L
CS66417	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.19	0.06	0.06	ug/L
CS66417	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.126	0.020	0.1	0.1	mg/L
CS66417	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	40.1	0.010	35	35	mg/L
CS66417	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	51.2	1.0	20	20	mg/L
CS66417	SB-WM-MS	Antimony	NY / TOGS - Water Quality / GA Criteria	0.0033	0.0030	0.003	0.003	mg/L
CS66417	SE-WM-MS	Selenium	NY / TOGS - Water Quality / GA Criteria	0.215	0.010	0.01	0.01	mg/L
CS66418	$8260DP25R	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	8.8	1.0	5	5	ug/L
CS66418	$8260DP25R	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.04	0.04	ug/L
CS66418	$8260DP25R	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.0006	0.0006	ug/L
CS66418	$8260DP25R	cis-1,2-Dichloroethene	NY / TOGS - Water Quality / GA Criteria	7.5	1.0	5	5	ug/L
CS66418	$8260DP25R	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	8.8	1.0	5	5	ug/L
CS66418	$8260DP25R	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.04	0.04	ug/L
CS66418	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L

Wednesday, March 12, 2025

Criteria: NY: GW

State: NY

Sample Criteria Exceedances Report

GCS66415 - TOUCHSTONE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CS66418	$DP8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66418	$DP8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
CS66418	$DPPEST_GA	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.20	0.06	0.06	ug/L
CS66418	FE-WMDP	Iron	NY / TOGS - Water Quality / GA Criteria	0.32	0.01	0.3	0.3	mg/L
CS66418	MN-WMDP	Manganese	NY / TOGS - Water Quality / GA Criteria	0.570	0.005	0.3	0.3	mg/L
CS66418	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	108	1.0	20	20	mg/L

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

March 12, 2025

SDG I.D.: GCS66415

The samples in this delivery group were received at 1.7°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: Makrina Nolan, makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Temp 6 °C Pg of

Contact Options:
☐ Phone:
☐ Fax:
☐ Email:

Customer: Touchstone Environmental
Address:
Project: 60-66 Gerry St.
Report to:
Invoice to:
QUOTE # :
Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature
Client Sample - Information - Identification
Date: 2/18/25

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	VOCs EPA 8260	SVOCs EPA 8270	Pesticides 8081	PCBs 8082	TAL+TCL Metals 6010	2 Dioxane EPA 1633	1,4 Dioxane 8270 SIM	GL Amber 8 oz. [ ] w/H2PO4 [ ] NaHSO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/SSO3	Bacteria Bottle w/Na2S2O3	PFAS - PL250ml
606415	23MW-4S	GW	2/18/25	10:00	See attached paper								2				3	3	1	2	1	1	1	4	2
606416	23MW-3	↓	↓	13:30		X	X	X	X	X	X	X	1				3	3	1						2
606417	23MW-5	↓	↓	15:45		↓	↓	↓	↓	↓	↓	↓	1				3	3	1						2
606418	23MW-2	↓	↓	16:45		↓	↓	↓	↓	↓	↓	↓	1				3	3	1						2

120 ml plastic
250 ml amber

Relinquished by:	Accepted by:	Date:	Time:
		2/20/25	09:15
		2/20/25	17:35

Turnaround:
☐ 1 Day*
☐ 2 Days*
☑ 3 Days*
☐ 4 Days*
☐ 5 Days*
☑ Standard
*** SURCHARGE APPLIES**

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

NY
☑ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential Restricted Soil
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? ☐

Comments, Special Requirements or Regulations:

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

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

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

PEL-111 Rev 1/2023

GC566415

23MW-4S Analysis:

- VOCs via EPA Method 8260C,
- SVOCs via EPA Method 8270,
- Pesticides via EPA Method 8081,
- PCBs via EPA Method 8082,
- TAL/TCL Metals (filtered and unfiltered) via EPA Method 6010,
- 21 PFAS compounds via EPA Method 1633,
- 1,4-Dioxane via EPA Method 8270 SIM
- Total Fe, Dissolved Fe,
- Total Mn, Dissolved Mn,
- Sulfate,
- Sulfide,
- Nitrate,
- Total Organic Carbon (TOC),
- Alkalinity,
- Chloride,
- Methane,
- Ethane,
- Ethene,
- CO2

GCS066415

Sam Runyon

From: Michael Lapman
Sent: Thursday, February 20, 2025 12:47 PM
To: Sam Runyon
Subject: Re: touchstone - nitrate hold time

Yes, thank you.

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
www.phoenixlabs.com

This message, including any attachments hereto, may contain privileged or confidential information and is sent solely for the attention and use of the intended addressee(s). If you are not an intended addressee, you may neither use this message nor copy or deliver it to anyone. In such case, you should immediately destroy this message and kindly notify the sender by reply email. Thank you.

From: Sam Runyon <samr@phoenixlabs.com>
Date: Thursday, February 20, 2025 at 12:43 PM
To: Michael Lapman <michael@phoenixlabs.com>
Subject: touchstone - nitrate hold time

For the attached, is the client okay running the nitrate past hold for the first sample?

Thank you,

Samantha Runyon

Client Services
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
samr@phoenixlabs.com
PH: 860-645-1102

Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 03/03/2025
Client Project ID: GCS66415
York Project (SDG) No.: 25B1305

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/03/2025
Client Project ID: GCS66415
York Project (SDG) No.: 25B1305

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 24, 2025 and listed below. The project was identified as your project: **GCS66415**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25B1305-01	23MW-4S	Water	02/18/2025	02/24/2025
25B1305-02	23MW-3	Water	02/18/2025	02/24/2025
25B1305-03	23MW-5	Water	02/18/2025	02/24/2025
25B1305-04	23MW-2	Water	02/18/2025	02/24/2025

General Notes for York Project (SDG) No.: 25B1305

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By:

Date: 03/03/2025

Cassie L. Mosher
Laboratory Manager

[TOC_1]Sample Results[TOC]

Sample Information

[TOC_2]23MW-4S[TOC]

Client Sample ID: 23MW-4S

York Sample ID: 25B1305-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 10:00 am	02/24/2025

[TOC_3]PFAS Target compounds by LC/MS-MS[TOC]

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**2.88**		ng/L	0.534	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**9.26**		ng/L	0.398	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**6.04**		ng/L	0.807	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.91**		ng/L	0.773	2.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**19.9**		ng/L	0.477	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**1.11**	J	ng/L	0.932	2.11	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.591	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.852	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.28	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.00	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.841	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.784	2.27	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.898	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.17	2.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**8.87**		ng/L	0.261	4.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.00	2.27	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.03	2.17	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.50	2.19	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	8.52	8.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.33	8.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**8.69**	J	ng/L	0.375	9.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.568	4.04	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:02	AM

Sample Information

Client Sample ID: 23MW-4S **York Sample ID:** 25B1305-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 10:00 am	02/24/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.43	4.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:02	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.284	4.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:02	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.420	4.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:02	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.863	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	2.03	8.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.67	9.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.57	8.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.795	8.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
919005-14-4	ADONA	ND		ng/L	0.602	8.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.06	2.20	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.977	2.18	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:02	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.31	5.68	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	8.33	28.4	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	10.8	28.4	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.53	22.7	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.80	2.27	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.53	22.7	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM
4151-50-2	* N-EtFOSA	ND		ng/L	2.04	2.27	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:02	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*133 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*142 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*166 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*139 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*139 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*146 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*128 %*		*25-150*

Sample Information

Client Sample ID: 23MW-4S **York Sample ID:** 25B1305-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 10:00 am	02/24/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*102 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*88.3 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*108 %*			*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*137 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*156 %*	PFSu-H		*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*130 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*129 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*133 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*212 %*	PFSu-H		*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*159 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*142 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*280 %*	PFSu-H		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*89.5 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*95.9 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*140 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*104 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*104 %*			*25-150*						

Sample Information

[TOC_2]23MW-3[TOC]

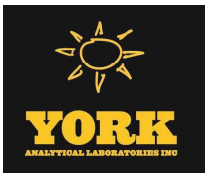
Client Sample ID: 23MW-3 **York Sample ID:** 25B1305-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:30 pm	02/24/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.09**		ng/L	0.531	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**11.5**		ng/L	0.395	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**4.96**		ng/L	0.802	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.81**	J	ng/L	0.768	2.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM



Sample Information

Client Sample ID: 23MW-3 **York Sample ID:** 25B1305-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:30 pm	02/24/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	**Perfluorooctanoic acid (PFOA)**	**15.7**		ng/L	0.475	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**2.47**		ng/L	0.927	2.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.588	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.847	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.28	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.994	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.836	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.780	2.26	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.893	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.16	2.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**12.3**		ng/L	0.260	4.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.994	2.26	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.03	2.16	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.49	2.18	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	8.47	8.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.32	8.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.373	9.04	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.565	4.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:18	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.42	4.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:18	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.282	4.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:18	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.418	4.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:18	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.859	2.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	2.02	8.47	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM

Sample Information

Client Sample ID: 23MW-3 **York Sample ID:** 25B1305-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:30 pm	02/24/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.65	9.04	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.56	8.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.791	8.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
919005-14-4	ADONA	ND		ng/L	0.599	8.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.05	2.19	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.972	2.17	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:18	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.29	5.65	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	8.28	28.2	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	10.7	28.2	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.51	22.6	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.79	2.26	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.51	22.6	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM
4151-50-2	* N-EtFOSA	ND		ng/L	2.03	2.26	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:18	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*115 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*117 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*139 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*124 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*115 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*117 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*104 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*96.1 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*82.3 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*13.6 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*123 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*109 %*		*25-150*

Sample Information

Client Sample ID: 23MW-3 **York Sample ID:** 25B1305-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:30 pm	02/24/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*113 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*114 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*127 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*198 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*144 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*126 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*278 %*	PFSu-H		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*92.1 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*108 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*114 %*			*25-150*						
D9-NETPFOSA1	*Surrogate: d9-N-EtFOSE*	*112 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*97.6 %*			*25-150*						

Sample Information

[TOC_2]23MW-5[TOC]

Client Sample ID: 23MW-5 **York Sample ID:** 25B1305-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:45 pm	02/24/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**5.21**		ng/L	0.482	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**10.2**		ng/L	0.359	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**8.61**		ng/L	0.728	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.46**	J	ng/L	0.697	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**40.2**		ng/L	0.431	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**2.22**		ng/L	0.841	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.940**	J	ng/L	0.533	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.769	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM

Sample Information

Client Sample ID: 23MW-5 **York Sample ID:** 25B1305-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:45 pm	02/24/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.16	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.903	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.759	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.708	2.05	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.810	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.06	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**8.81**		ng/L	0.236	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.903	2.05	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.933	1.96	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.35	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.69	7.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.10	7.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**8.30**		ng/L	0.338	8.21	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.513	3.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:35	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.19	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:35	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.256	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:35	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.379	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:35	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.779	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.84	7.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.31	8.21	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.42	7.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.718	7.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
919005-14-4	ADONA	ND		ng/L	0.544	7.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM

Sample Information

Client Sample ID: 23MW-5 **York Sample ID:** 25B1305-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:45 pm	02/24/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.954	1.99	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.882	1.97	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:35	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.08	5.13	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.52	25.6	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.71	25.6	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.09	20.5	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.62	2.05	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.09	20.5	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.85	2.05	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:35	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*131 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*140 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*153 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*149 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*142 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*122 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*112 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*97.1 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*85.1 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*87.1 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*133 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*143 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*118 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*122 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*132 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*262 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*169 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*141 %*		*25-150*

Sample Information

Client Sample ID: 23MW-5 **York Sample ID:** 25B1305-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 1:45 pm	02/24/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*367 %*	PFSu-H		*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*85.2 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*103 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*123 %*			*25-150*						
D9-NETPFOSA1	*Surrogate: d9-N-EtFOSE*	*106 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*100 %*			*25-150*						

Sample Information

[TOC_2]23MW-2[TOC]

Client Sample ID: 23MW-2 **York Sample ID:** 25B1305-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 4:45 pm	02/24/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.23**		ng/L	0.516	1.94	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**14.3**		ng/L	0.384	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**9.89**		ng/L	0.780	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.52**		ng/L	0.747	2.01	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-67-1	**Perfluorooctanoic acid (PFOA)**	**51.2**		ng/L	0.461	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**1.18**	J	ng/L	0.901	2.04	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.07**	J	ng/L	0.571	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.824	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.24	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.967	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.813	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.758	2.20	1	EPA 1633 Draft 3	02/28/2025 12:42	03/03/2025 13:51	AM
								Certifications: NJDEP-NY037			

Sample Information

Client Sample ID: 23MW-2 **York Sample ID:** 25B1305-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 4:45 pm	02/24/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	N-MeFOSAA	ND		ng/L	0.868	2.20	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.13	2.20	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**14.7**		ng/L	0.253	4.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.967	2.20	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.00	2.10	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.45	2.12	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	8.24	8.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.25	8.44	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**16.2**		ng/L	0.362	8.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.549	3.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:51	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.35	4.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:51	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.275	4.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:51	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.406	4.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	02/28/2025 12:42	03/03/2025 13:51	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.835	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.97	8.24	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.55	8.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.52	8.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.769	8.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
919005-14-4	ADONA	ND		ng/L	0.582	8.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.02	2.13	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.945	2.11	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	02/28/2025 12:42	03/03/2025 13:51	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.23	5.49	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	8.05	27.5	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM

Sample Information

Client Sample ID: 23MW-2 **York Sample ID:** 25B1305-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1305	GCS66415	Water	February 18, 2025 4:45 pm	02/24/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	10.4	27.5	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM
24448-09-7	* N-MeFOSE	ND		ng/L	4.38	22.0	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.74	2.20	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM
1691-99-2	* N-EtFOSE	ND		ng/L	4.38	22.0	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.98	2.20	1	EPA 1633 Draft 3 Certifications:	02/28/2025 12:42	03/03/2025 13:51	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*183 %*	PFSu-H	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*176 %*	PFSu-H	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*211 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*189 %*	PFSu-H	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)*	*171 %*	PFSu-H	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*164 %*	PFSu-H	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*131 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)*	*98.4 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*104 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)*	*127 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)*	*174 %*	PFSu-H	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)*	*188 %*	PFSu-H	*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)*	*164 %*	PFSu-H	*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*153 %*	PFSu-H	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*160 %*	PFSu-H	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*248 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*185 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*167 %*	PFSu-H	*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*352 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*106 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*109 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*165 %*	PFSu-H	*25-150*
D9-NETPFOSA1	*Surrogate: d9-N-EtFOSE*	*127 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*125 %*		*25-150*

Analytical Batch Summary

_1Quality Batch Summary[TOC]

Batch ID: BB51990 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

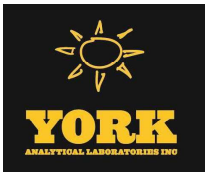
YORK Sample ID	Client Sample ID	Preparation Date
25B1305-01	23MW-4S	02/28/25
25B1305-02	23MW-3	02/28/25
25B1305-03	23MW-5	02/28/25
25B1305-04	23MW-2	02/28/25
BB51990-BLK1	Blank	02/28/25
BB51990-BS1	LCS	02/28/25
BB51990-BS2	LCS	02/28/25

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51990 - EPA 1633 Prep											
Blank (BB51990-BLK1)											Prepared: 02/28/2025 Analyzed: 03/03/2025
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*32.6*		"	*23.3*		*140*	*25-150*				
Surrogate: M5PFHxA	*29.5*		"	*25.0*		*118*	*25-150*				
Surrogate: M4PFHpA	*35.8*		"	*25.0*		*143*	*25-150*				
Surrogate: M3PFHxS	*32.9*		"	*23.7*		*139*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*28.9*		"	*25.0*		*116*	*25-150*				

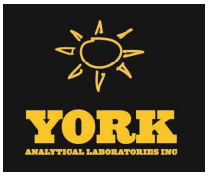
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51990 - EPA 1633 Prep											
Blank (BB51990-BLK1)									Prepared: 02/28/2025 Analyzed: 03/03/2025		
Surrogate: M6PFDA	*16.2*		*ng/L*	*12.5*		*130*	*25-150*				
Surrogate: M7PFUdA	*14.9*		*"*	*12.5*		*119*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.2*		*"*	*12.5*		*97.3*	*25-150*				
Surrogate: M2PFTeDA	*10.3*		*"*	*12.5*		*82.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.39*		*"*	*100*		*5.39*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*26.7*		*"*	*24.0*		*112*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*39.6*		*"*	*50.0*		*79.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.6*		*"*	*25.0*		*114*	*10-150*				
Surrogate: d3-N-MeFOSAA	*63.2*		*"*	*50.0*		*126*	*25-150*				
Surrogate: d5-N-EtFOSAA	*67.4*		*"*	*50.0*		*135*	*25-150*				
Surrogate: M2-6:2 FTS	*87.8*		*"*	*47.6*		*185*	*25-200*				
Surrogate: M2-8:2 FTS	*81.0*		*"*	*48.0*		*169*	*25-200*				
Surrogate: M9PFNA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*85.9*		*"*	*46.9*		*183*	*25-150*				
Surrogate: d-N-MeFOSA	*22.4*		*"*	*25.0*		*89.5*	*25-150*				
Surrogate: d-N-EtFOSA	*24.0*		*"*	*25.0*		*95.9*	*25-150*				
Surrogate: M3HFPO-DA	*109*		*"*	*100*		*109*	*25-150*				
Surrogate: d9-N-EtFOSE	*234*		*"*	*250*		*93.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*219*		*"*	*250*		*87.6*	*25-150*				
LCS (BB51990-BS1)									Prepared: 02/28/2025 Analyzed: 03/03/2025		
Perfluorobutanesulfonic acid (PFBS)	35.0	1.77	ng/L	35.4		99.0	50-150				
Perfluorohexanoic acid (PFHxA)	39.0	2.00	"	40.0		97.6	50-150				
Perfluoroheptanoic acid (PFHpA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	40.3	1.83	"	36.6		110	50-150				
Perfluorooctanoic acid (PFOA)	42.8	2.00	"	40.0		107	50-150				
Perfluorooctanesulfonic acid (PFOS)	35.4	1.86	"	37.2		95.1	50-150				
Perfluorononanoic acid (PFNA)	46.7	2.00	"	40.0		117	50-150				
Perfluorodecanoic acid (PFDA)	38.7	2.00	"	40.0		96.8	50-150				
Perfluoroundecanoic acid (PFUnA)	39.1	2.00	"	40.0		97.7	50-150				
Perfluorododecanoic acid (PFDoA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorotridecanoic acid (PFTrDA)	38.9	2.00	"	40.0		97.1	50-150				
Perfluorotetradecanoic acid (PFTA)	40.1	2.00	"	40.0		100	50-150				
N-MeFOSAA	38.9	2.00	"	40.0		97.4	50-150				
N-EtFOSAA	39.0	2.00	"	40.0		97.5	50-150				
Perfluoropentanoic acid (PFPeA)	81.9	4.00	"	80.0		102	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	35.6	2.00	"	40.0		88.9	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	34.3	1.91	"	38.2		89.8	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	31.3	1.93	"	38.6		81.0	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	152	7.60	"	152		100	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	159	7.68	"	154		104	50-150				
Perfluoro-n-butanoic acid (PFBA)	138	8.00	"	160		86.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	70.4	3.56	"	71.2		98.9	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	71.3	4.00	"	80.0		89.2	50-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

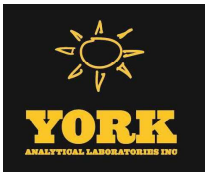
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51990 - EPA 1633 Prep											
LCS (BB51990-BS1)								Prepared: 02/28/2025 Analyzed: 03/03/2025			
Perfluoro-4-oxapentanoic acid (PFMPA)	18.3	4.00	ng/L	80.0		22.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	104	4.00	"	80.0		130	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	36.6	1.88	"	37.6		97.3	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	159	7.50	"	150		106	50-150				
HFPO-DA (Gen-X)	91.5	8.00	"	80.0		114	50-150				
11CL-PF3OUdS	71.1	7.56	"	75.6		94.0	50-150				
9CL-PF3ONS	80.9	7.48	"	74.8		108	50-150				
ADONA	95.0	7.56	"	75.6		126	50-150				
Perfluorododecanesulfonic acid (PFDoS)	26.4	1.94	"	38.8		68.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	39.4	1.92	"	38.4		102	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	95.0	5.00	"	160		59.4	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	807	25.0	"	800		101	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	819	25.0	"	800		102	50-150				
N-MeFOSE	433	20.0	"	400		108	50-150				
N-MeFOSA	42.0	2.00	"	40.0		105	50-150				
N-EtFOSE	351	20.0	"	400		87.6	50-150				
N-EtFOSA	36.4	2.00	"	40.0		91.0	50-150				
Surrogate: M3PFBS	*27.5*		"	*23.3*		*118*	*25-150*				
Surrogate: M5PFHxA	*29.1*		"	*25.0*		*116*	*25-150*				
Surrogate: M4PFHpA	*32.4*		"	*25.0*		*130*	*25-150*				
Surrogate: M3PFHxS	*27.4*		"	*23.7*		*116*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*28.4*		"	*25.0*		*114*	*25-150*				
Surrogate: M6PFDA	*14.0*		"	*12.5*		*112*	*25-150*				
Surrogate: M7PFUdA	*13.8*		"	*12.5*		*111*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.1*		"	*12.5*		*88.9*	*25-150*				
Surrogate: M2PFTeDA	*10.9*		"	*12.5*		*87.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.78*		"	*100*		*5.78*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*27.9*		"	*24.0*		*117*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*38.0*		"	*50.0*		*76.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.4*		"	*25.0*		*114*	*10-150*				
Surrogate: d3-N-MeFOSAA	*57.8*		"	*50.0*		*116*	*25-150*				
Surrogate: d5-N-EtFOSAA	*62.3*		"	*50.0*		*125*	*25-150*				
Surrogate: M2-6:2 FTS	*74.3*		"	*47.6*		*156*	*25-200*				
Surrogate: M2-8:2 FTS	*66.4*		"	*48.0*		*138*	*25-200*				
Surrogate: M9PFNA	*13.2*		"	*12.5*		*106*	*25-150*				
Surrogate: M2-4:2 FTS	*69.9*		"	*46.9*		*149*	*25-150*				
Surrogate: d-N-MeFOSA	*21.5*		"	*25.0*		*86.0*	*25-150*				
Surrogate: d-N-EtFOSA	*23.6*		"	*25.0*		*94.2*	*25-150*				
Surrogate: M3HFPO-DA	*109*		"	*100*		*109*	*25-150*				
Surrogate: d9-N-EtFOSE	*230*		"	*250*		*91.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*215*		"	*250*		*86.0*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

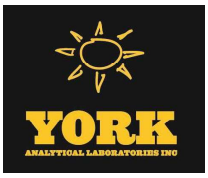
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51990 - EPA 1633 Prep											
LCS (BB51990-BS2)								Prepared: 02/28/2025 Analyzed: 03/03/2025			
Perfluorobutanesulfonic acid (PFBS)	3.54	1.77	ng/L	3.54		99.9	50-150				
Perfluorohexanoic acid (PFHxA)	3.90	2.00	"	4.00		97.6	50-150				
Perfluoroheptanoic acid (PFHpA)	3.75	2.00	"	4.00		93.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.08	1.83	"	3.66		111	50-150				
Perfluorooctanoic acid (PFOA)	4.68	2.00	"	4.00		117	50-150				
Perfluorooctanesulfonic acid (PFOS)	4.10	1.86	"	3.72		110	50-150				
Perfluorononanoic acid (PFNA)	4.04	2.00	"	4.00		101	50-150				
Perfluorodecanoic acid (PFDA)	4.24	2.00	"	4.00		106	50-150				
Perfluoroundecanoic acid (PFUnA)	3.88	2.00	"	4.00		96.9	50-150				
Perfluorododecanoic acid (PFDoA)	4.09	2.00	"	4.00		102	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.78	2.00	"	4.00		119	50-150				
Perfluorotetradecanoic acid (PFTA)	4.63	2.00	"	4.00		116	50-150				
N-MeFOSAA	3.80	2.00	"	4.00		94.9	50-150				
N-EtFOSAA	3.90	2.00	"	4.00		97.4	50-150				
Perfluoropentanoic acid (PFPeA)	8.45	4.00	"	8.00		106	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.79	2.00	"	4.00		94.8	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.72	1.91	"	3.82		97.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.40	1.93	"	3.86		88.1	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	17.1	7.60	"	15.2		112	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	17.5	7.68	"	15.4		114	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.3	8.00	"	16.0		83.2	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.79	3.56	"	7.12		95.3	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	7.87	4.00	"	8.00		98.4	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.52	4.00	"	8.00		19.0	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	11.5	4.00	"	8.00		144	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.74	1.88	"	3.76		99.3	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	16.9	7.50	"	15.0		113	50-150				
HFPO-DA (Gen-X)	8.59	8.00	"	8.00		107	50-150				
11CL-PF3OUdS	8.14	7.56	"	7.56		108	50-150				
9CL-PF3ONS	8.94	7.48	"	7.48		120	50-150				
ADONA	10.6	7.56	"	7.56		141	50-150				
Perfluorododecanesulfonic acid (PFDoS)	3.15	1.94	"	3.88		81.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.39	1.92	"	3.84		114	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	9.00	5.00	"	16.0		56.3	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	78.2	25.0	"	80.0		97.8	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	80.5	25.0	"	80.0		101	50-150				
N-MeFOSE	50.7	20.0	"	40.0		127	50-150				
N-MeFOSA	5.76	2.00	"	4.00		144	50-150				
N-EtFOSE	44.7	20.0	"	40.0		112	50-150				
N-EtFOSA	2.79	2.00	"	4.00		69.8	50-150				
Surrogate: M3PFBS	*31.0*		"	*23.3*		*133*	*25-150*				
Surrogate: M5PFHxA	*32.5*		"	*25.0*		*130*	*25-150*				
Surrogate: M4PFHpA	*37.5*		"	*25.0*		*150*	*25-150*				
Surrogate: M3PFHxS	*33.1*		"	*23.7*		*139*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*31.7*		"	*25.0*		*127*	*25-150*				
Surrogate: M6PFDA	*15.7*		"	*12.5*		*125*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51990 - EPA 1633 Prep											
LCS (BB51990-BS2)									Prepared: 02/28/2025 Analyzed: 03/03/2025		
Surrogate: M7PFUdA	*14.7*		*ng/L*	*12.5*		*117*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*13.6*		*"*	*12.5*		*109*	*25-150*				
Surrogate: M2PFTeDA	*10.3*		*"*	*12.5*		*82.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.24*		*"*	*100*		*4.24*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*30.2*		*"*	*24.0*		*126*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*34.3*		*"*	*50.0*		*68.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.0*		*"*	*25.0*		*128*	*10-150*				
Surrogate: d3-N-MeFOSAA	*66.9*		*"*	*50.0*		*134*	*25-150*				
Surrogate: d5-N-EtFOSAA	*71.6*		*"*	*50.0*		*143*	*25-150*				
Surrogate: M2-6:2 FTS	*84.0*		*"*	*47.6*		*177*	*25-200*				
Surrogate: M2-8:2 FTS	*72.6*		*"*	*48.0*		*151*	*25-200*				
Surrogate: M9PFNA	*16.3*		*"*	*12.5*		*131*	*25-150*				
Surrogate: M2-4:2 FTS	*76.5*		*"*	*46.9*		*163*	*25-150*				
Surrogate: d-N-MeFOSA	*22.3*		*"*	*25.0*		*89.1*	*25-150*				
Surrogate: d-N-EtFOSA	*31.8*		*"*	*25.0*		*127*	*25-150*				
Surrogate: M3HFPO-DA	*111*		*"*	*100*		*111*	*25-150*				
Surrogate: d9-N-EtFOSE	*239*		*"*	*250*		*95.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*224*		*"*	*250*		*89.6*	*25-150*				


YORK
ANALYTICAL LABORATORIES INC

Sample and Data Qualifiers Relating to This Work Order

[TOC 1]Notes and Specific Data Fl

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

2581325

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

CHAIN OF CUSTODY RECORD

Temp 1.8 °C Pg of

PHOENIX Environmental Laboratories, Inc.

Page 1 of 1
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories, Inc.
Address: 132-02 89th Avenue
Richmond Hill, NY

Project #: GCS66415
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCS66415

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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

Analysis Request

	Phoenix Sample ID	Sample Matrix	Date Sampled	Time Sampled	PFAS (40) by EPA 1633 EPA 1633 (draft)	500ml HDPE Plastic As Is
	23MW-4S	GW	2/18/2025	10:00 AM	x	2
	23MW-3	GW	2/18/2025	1:30 PM	x	2
	23MW-5	GW	2/18/2025	1:45 PM	x	2
	23MW-2	GW	2/18/2025	4:45 PM	x	2

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2-24-25	0720
[signature]	NCLS	2/24/25	1025
NCLS	[signature]	2-24-25	14:50

Comments, Special Requirements or Regulations:

2-24-25 1416 WM 2/24/25 1416 5.0

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

Turnaround:
☐ 1 Day
☐ 2 Days
☐ 3 Days
☐ 5 Days
☐ 10 Days
☒ Standard
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☒ NY ASP B

What State were samples collected?
NY

EDD Format:
☐ Excel
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:
NY: TAGM/TOGS GW

ANALYTICAL REPORT

Lab Number:	L2509620
Client:	Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040
ATTN:	Helen Geoghegan
Phone:	(860) 645-8726
Project Name:	GCS66415
Project Number:	GCS66415
Report Date:	03/10/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: GCS66415
Project Number: GCS66415

Lab Number: L2509620
Report Date: 03/10/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2509620-01	CS66415	WATER	NY	02/18/25 10:00	02/21/25

Project Name:	GCS66415	**Lab Number:**	L2509620
Project Number:	GCS66415	**Report Date:**	03/10/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	GCS66415	**Lab Number:**	L2509620
Project Number:	GCS66415	**Report Date:**	03/10/25

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Dissolved Gases was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Carbon Dioxide

L2509620-01: The sample was analyzed with the method required holding time exceeded per client request. The WG2034817-5 MS recovery performed on L2509620-01 is outside the acceptance criteria for carbon dioxide (177%). The unacceptable percent recovery is attributed to the elevated concentrations of target compounds present in the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 03/10/25

ORGANICS

VOLATILES

Project Name: GCS66415 **Lab Number:** L2509620

Project Number: GCS66415 **Report Date:** 03/10/25

SAMPLE RESULTS

Lab ID: L2509620-01
Client ID: CS66415
Sample Location: NY

Date Collected: 02/18/25 10:00
Date Received: 02/21/25
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 117,-
Analytical Date: 02/27/25 11:26
Analyst: MLE

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Dissolved Gases by GC - Mansfield Air Lab						
Carbon Dioxide	90.8		mg/l	3.00	3.00	1

Project Name: GCS66415 **Lab Number:** L2509620

Project Number: GCS66415 **Report Date:** 03/10/25

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 02/27/25 08:19
Analyst: MLE

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - Mansfield Air Lab for sample(s): 01 Batch: WG2034817-3					
Carbon Dioxide	ND		mg/l	3.00	3.00

Lab Control Sample Analysis
Batch Quality Control

Project Name: GCS66415
Project Number: GCS66415

Lab Number: L2509620
Report Date: 03/10/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Air Lab Associated sample(s): 01 Batch: WG2034817-2								
Carbon Dioxide	93		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: GCS66415
Project Number: GCS66415

Lab Number: L2509620
Report Date: 03/10/25

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Dissolved Gases by GC - Mansfield Air Lab Associated sample(s): 01 QC Batch ID: WG2034817-5 QC Sample: L2509620-01 Client ID: CS66415												
Carbon Dioxide	90.8	12	112	**177**	Q	-	-		80-120	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GCS66415
Project Number: GCS66415

Lab Number: L2509620
Report Date: 03/10/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Gases by GC - Mansfield Air Lab Associated sample(s): 01 QC Batch ID: WG2034817-4 QC Sample: L2509620-01 Client ID: CS66415						
Carbon Dioxide	90.8	96.9	mg/l	6		25

Project Name: GCS66415
Project Number: GCS66415

Lab Number: L2509620
Report Date: 03/10/25

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2509620-01A	Vial unpreserved	A	NA		2.7	Y	Absent		DISSGAS-CO2(7)
L2509620-01B	Vial unpreserved	A	NA		2.7	Y	Absent		DISSGAS-CO2(7)
L2509620-01C	Vial HCl preserved	A	NA		2.7	Y	Absent		SUB-DISSGAS(14)
L2509620-01D	Vial HCl preserved	A	NA		2.7	Y	Absent		SUB-DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name:	GCS66415	**Lab Number:**	L2509620
Project Number:	GCS66415	**Report Date:**	03/10/25

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	GCS66415	**Lab Number:**	L2509620
Project Number:	GCS66415	**Report Date:**	03/10/25

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	GCS66415	**Lab Number:**	L2509620
Project Number:	GCS66415	**Report Date:**	03/10/25

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name: GCS66415 **Lab Number:** L2509620

Project Number: GCS66415 **Report Date:** 03/10/25

REFERENCES

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
MADEP-APH.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

Certification IDs:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581
CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048
CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048
ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

L2509620

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐
Temp °C Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Page 1 of 1

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

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Customer: Alpha Analytical (Pace)
Address: 8 Walkup Dr
Westborough, MA
(508) 898-9220

Project #: GCS66415
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCS66415

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

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

Phoenix Sample ID	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: Carbon Dioxide RSK-175 modifiedRev. 2	Ethane EPA RSKSOP-175Rev. 2	Ethene EPA RSKSOP-175Rev. 2	Methane EPA RSKSOP-175Rev. 2	20ml VOA Vial As Is	20ml VOA Vial w/HCL
CS66415 23MW-4S	GW	2/18/2025	10:00 AM	x	x	x	x	2	2

Relinquished by:	Accepted by:	Date:	Time:
[illegible]	Vermont Test	2.21.25	1205
Vermont Test	LHC	2.21.25	14:51
LHC	V. Miller	2/21	1800
V. Miller		2.21.25	2020

Comments, Special Requirements or Regulations:

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

Turnaround:
☐ 1 Day
☐ 2 Days
☐ 3 Days
☐ 5 Days
☐ 10 Days
☒ Standard
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☐ NY ASP B

EDD Format:
☐ Excel
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:
NY: TAGM/TOGS GW

What State were samples collected?
NY

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 7, 2025

Graham Parker
Pace Analytical Services - Westborough, MA
8 Walkup Drive
Westborough, MA 01581

Project Location: L2509620
Client Job Number:
Project Number: L2509620
Laboratory Work Order Number: 25B1412

Enclosed are results of analyses for samples as received by the laboratory on February 26, 2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rebecca Faust
Project Manager

Table of Contents

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Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

[TOC_1]Sample Summary[TOC]

Pace Analytical Services - Westborough, MA
8 Walkup Drive
Westborough, MA 01581
ATTN: Graham Parker

REPORT DATE: 3/7/2025

PURCHASE ORDER NUMBER:

PROJECT NUMBER: L2509620

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 25B1412

The results of analyses performed on the following samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, are found in this report.

PROJECT LOCATION: L2509620

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CS66415	25B1412-01	Water		RSK175	

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

[TOC 1]Case Narrative[TOC]

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Approved to be analyzed out of hold. 3/5/25

RSK175

Qualifications:

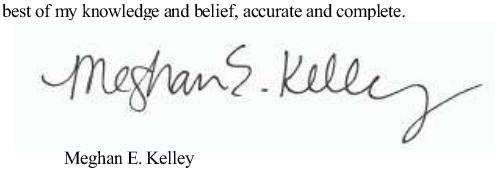
H-01

Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

Analyte & Samples(s) Qualified:

25B1412-01[CS66415]

The results of analyses reported only relate to samples submitted to Pace Analytical Services, LLC - East Longmeadow, Ma, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

Pace Analytical Services, LLC - East Longmeadow, Ma

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: L2509620 Sample Description: [TOC_1]Sample Results[TOC] Work Order: 25B1412

Date Received: 2/26/2025 [TOC_2]25B1412-01[TOC]

Field Sample #: CS66415 Sampled: 2/18/2025 10:00

Sample ID: 25B1412-01

Sample Matrix: Water

Sample Flags: H-01

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane	0.021	0.014	0.0013	mg/L	1		RSK175	3/5/25	3/5/25 11:19	TPH
Ethene	0.041	0.017	0.0018	mg/L	1		RSK175	3/5/25	3/5/25 11:19	TPH
Methane	0.14	0.0070	0.0010	mg/L	1		RSK175	3/5/25	3/5/25 11:19	TPH

Pace Analytical Services, LLC - East Longmeadow, Ma

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[TOC_1]Sample Preparation Information TOC]

Sample Extraction Data

Prep Method:RSK175 **Analytical Method:RSK175**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
25B1412-01 [CS66415]	B400229	1	1.00	03/05/25

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QUALITY CONTROL

[TOC_1]QC Data[TOC]

Miscellaneous Organic Analyses - Quality Control

[TOC_2]Miscellaneous Organic Analyses[TOC]

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B400229 - RSK175										
Blank (B400229-BLK1)				Prepared & Analyzed: 03/05/25						
Ethane	ND	0.014	mg/L							
Ethene	ND	0.017	mg/L							
Methane	ND	0.0070	mg/L							
LCS (B400229-BS1)				Prepared & Analyzed: 03/05/25						
Ethane	0.74		mg/L	0.7932		92.8	73.1-116			
Ethene	0.66		mg/L	0.7385		89.5	67.6-116			
Methane	0.38		mg/L	0.4239		88.7	73.2-114			

[TOC_3]B400229[TOC]

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FLAG/QUALIFIER SUMMARY

[TOC 1][Flag/Qualifier Summary][TOC]

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-01	Recommended sample holding time was exceeded, but analysis was performed before 2X the allowable holding time.

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CERTIFICATIONS

[TOC_1]Certifications[TOC]

Certified Analyses included in this Report

Analyte	Certifications
RSK175 in Water	
Ethane	VA,NY,ME,NJ
Ethene	VA,NY,ME,NJ
Methane	VA,NY,ME,NJ

Pace Analytical Services, LLC - East Longmeadow, Ma, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2025

25B1412

Pace

Subcontract Chain of Custody

Pace New England
39 Spruce St
East Longmeadow, MA 01028

Pace Job Number
L2509620

Page 1

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To:west.subreports@pacelabs.com Bill To:invoices@pacelabs.com Phone: 508.439.5160 Email: Graham.Parker@pacelabs.com	Project Location: NY Project Manager: Graham Parker **Turnaround & Deliverables Information** Due Date: Deliverables:	State/Federal Program: Regulatory Criteria: NY-TAGM-GW;NY-TOGS-GA Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2509620 Report to include Method and/or Regulatory required batch QC

Additional Comments:

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2509620-01	CS66415	02-18-25 10:00	WATER	Dissolved Gases	MEE Only		2

	Relinquished By:	Date/Time:	Received By:	Date/Time:
		02/26/25 05145	TPS	02/26/25 05:45
		2/26/25 0720	3.1	2/26/25 0720
Form No: AL_subcoc				

Serial_No:03102517:29

Pace	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Client Westborough
Project L2509620
MCP/RCP Required n a
Deliverable Package Requirement n a
Location NY
PWSID# (When Applicable) n a
Arrival Method:
Courier ☑ Fed Ex ☐ Walk in ☐ Other ☐
Received By / Date / Time RL 2/24/25 720
Back-Sheet By / Date / Time SL 2/26/25 1112
Temperature Method GUN # 6
WV samples: Yes (see note*) / (No) (follow normal procedure)
Temp < 6° C Actual Temperature 3.4
Rush Samples: Yes / (No) Notify
Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client	☑	Analysis	☑	Sampler Name	☑
Project	☑	IDs	☑	Collection Date/Time	☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Page 1 of 2

Qualtrax ID: 120836

Sample	Soils Jars (Circle Amb/Clear)				Ambers						Plastics										VOA Vials					Other / Fill in					
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	1 Liter		250mL			100mL	1 Liter		500mL		250mL						Unpreserved	HCl	MeOH	D.I. Water	Bisulfate	Col/Bact	Other				
					Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Sulfuric	Trizma	Unpreserved	Sulfuric	Nitric	NaOH	Ammonium Acetate	NaOH/Zinc									
1																															
2																															
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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024