

Prepared for:
Village of Wellsville
Department of Public Works
200 Bolivar Road
Wellsville, NY 14895

PERIODIC REVIEW REPORT

February 15, 2024 to February 15, 2025

**Wellsville/Andover Landfill Site
Site Number 9-02-004
Allegany County, New York**

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TABLE OF CONTENTS

1.0	OVERVIEW	1
1.1	<u>Introduction</u>	1
1.2	<u>Site Background</u>.....	1
1.3	<u>Summary of 2024 Monitoring, Inspection and Maintenance Activities</u>	2
2.0	MONITORING, INSPECTION AND MAINTENANCE REQUIREMENTS.....	3
2.1	<u>Monitoring Requirements</u>.....	3
2.2	<u>Inspection and Maintenance Requirements</u>.....	4
3.0	GROUNDWATER MONITORING RESULTS.....	5
3.1	<u>Fall Monitoring Event Results</u>.....	5
3.2	<u>Data Quality Assessment</u>	8
3.3	<u>Potentiometric Mapping</u>	8
4.0	SURFACE WATER AND SEDIMENT MONITORING RESULTS.....	9
5.0	LEACHATE SUMP AND MANHOLE MONITORING RESULTS.....	9
5.1	<u>Leachate Monitoring Results</u>.....	9
5.2	<u>Manhole Monitoring Results</u>.....	10
6.0	AIR QUALITY MONITORING RESULTS	10
7.0	RESIDENTIAL WATER SUPPLY MONITORING RESULTS	11
8.0	INSPECTIONS AND MAINTENANCE ACTIVITIES	12
9.0	CONCLUSIONS.....	12

Tables

Table 2-1 – Monitoring Requirements

Table 2-2 – Approved Analyte List

Table 2-3 – 2024 Static Groundwater Level Monitoring Data

Table 3-1 –Groundwater Analytical Results (Last 3 Years)

Table 3-2 –Groundwater Emerging Contaminants Analytical Results (Last 3 Years)

Table 3-3 – 2024 Field Duplicate Sample Comparison

Table 3-4 – 2024 Equipment Blank Analytical Results

Table 4-1 –Surface Water Analytical Results (Last 3 Years)

Table 5-1 –Leachate Sump and Manhole Analytical Results (Last 3 Years)

Table 6-1 – Fall 2024 Air Monitoring Results

Table 7-1 – Spring and Fall 2024 Residential Water Supply Contact and Sampling Summary

Table 7-2 – 2024 Residential Water Analytical Results

Table 8-1 – 2024 Leachate Collection System Cleaning Summary

TABLE OF CONTENTS CONTINUED

Figures

Figure 1 – Site Location

Figure 2 – 2024 Monitoring Locations

Figure 3 – October 16, 2024 Overburden Monitoring Well Potentiometric Map

Figure 4 – October 16, 2024 Bedrock Monitoring Well Potentiometric Map

Figure 5 – October 16, 2024 Air Monitoring Locations

Appendices

Appendix A – NYSDEC Site Management Periodic Review Report Certification

Appendix B – Monitoring Evaluation, Approved Revised Monitoring Plan and NYSDEC Response

Appendix C – Field Sampling Forms

Appendix D – 2024 Laboratory Analytical Reports

Appendix E – 2024 Quarterly Inspection & Maintenance Checklist

Appendix F – Concentration Time Trend Graphs

Appendix G – 2024 Residential Water Supply Results Letters

1.0 OVERVIEW

1.1 Introduction

This report presents operations, maintenance and monitoring activities associated with the closed Wellsville/Andover Landfill (Site) for the period of February 15, 2024 to February 15, 2025 and is being submitted as part of the New York State Department of Environmental Conservation (NYSDEC) Periodic Review Report (PRR) process with a the PRR certification provided in Appendix A.

The Site is located on Snyder Hill Road (previously known as Gorman Road) in Wellsville and Andover townships, Allegany County, New York (Figure 1). Operation, maintenance and monitoring requirements for this Site are detailed in *Operation and Maintenance Manual for the Wellsville/Andover Landfill Site Number 9-02-004 Allegany County, New York*, dated November 1997 (O&M Plan), prepared by Ecology and Environment Engineering, P.C. (E&E) with subsequent revisions. Revisions to the O&M Plan have been approved by NYSDEC and the current O&M requirements are summarized in Section 2 of this report (hereafter referred to as approved O&M Plan) with related correspondence included in Appendix B.

1.2 Site Background

The Wellsville/Andover Landfill was operated by the Village of Wellsville from 1964 to 1983, accepting both municipal and industrial waste. NYSDEC added the Site to the New York State Superfund with a 1994 Record of Decision (ROD) requiring waste consolidation and capping as the remedial action. Remedial construction commenced in April 1996. Waste from the northwest and northeast fill areas was removed and consolidated on the south/south-central fill area. Following consolidation, the fill was compacted and capped with a 19-acre cover system. The cover system incorporates a passive landfill gas (LFG) venting system, a leachate collection and storage system and groundwater cut-off trench on the north and east sides. Remedial construction was completed in September 1997.

The leachate collection system gravity drains to a Leachate Sump (LS-1), from which leachate is pumped into two 15,000 gallon underground storage tanks. The Village of Wellsville transports water from the storage tanks to the Village of Wellsville Publicly Owned Treatment Works (POTW) for treatment. The Village of Wellsville POTW operates under a SPDES permit and the Village has a waste hauler permit to transport the leachate to the POTW.

The groundwater cutoff trench is intended to capture groundwater from the north and east landfill perimeters. The north side collection trench drains to Manhole 32 (MH-32) located at the northwest corner of the landfill, while the east side collection trench drains to Manhole 33 (MH-33) at the southeast corner of the landfill. Both MH-32 and MH-33 are piped to drain either to the leachate collection system or to the landfill perimeter surface water drainage channels. To date, water in MH-32 and MH-33 has been drained to the leachate collection system. The pipes from the manholes to the drainage channel are closed with removable plugs.

Post remedial action (post-closure) monitoring has been ongoing at the Site since June 1998.

1.3 Summary of 2024 Monitoring, Inspection and Maintenance Activities

This section provides an overview of the monitoring, inspection and maintenance activities completed in 2024.

The required 2024 environmental monitoring was completed by On-Site Geological Services, D.P.C. (On-Site) in accordance with the current O&M Plan. Monitoring is primarily conducted in an annual fall event consisting of: 1) sampling groundwater, leachate and four residential water supplies; and 2) air quality monitoring at landfill gas vents, lateral cleanouts, manholes and landfill perimeter. Spring sampling of surface water and one residential water supply is also conducted. Sample analysis is conducted primarily for metals and Volatile Organic Compounds (VOCs). Additionally groundwater monitoring includes Emerging Contaminants (EC) sampling and analysis of select monitoring wells in accordance with the approved O&M Plan. EC include Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane.

Details of monitoring activities are provided in Sections 3 through 7 of this report. Field sampling forms are included in Appendix C. Laboratory analysis was conducted by ALS Environmental (ALS), located in Rochester, New York. The 2024 laboratory analytical reports are included in Appendix D. 2024 monitoring shows consistent results as compared to historical monitoring indicating the Site remedy is functioning as designed.

Quarterly inspections are conducted and documented on Inspection and Maintenance Checklist by Village of Wellsville personnel (Appendix E). 2024 Quarterly inspections resulted with no unresolved problems. 2024 maintenance activities included the following:

- annual mowing of landfill cap and landfill perimeter vegetation;
- clean soil backfill of shallow surface burrows in cover surface soil adjacent to gas

vents V-4, V-9, V-11, V-14, V-16, V-17 and piezometer PZ-2.

- leachate management and disposal;
- leachate sump pump 2 replacement;
- leachate collection system water jet cleaning; and
- WAL-19 residential water treatment unit maintenance.

Details of the maintenance activities are provided in Section 8.

2.0 MONITORING, INSPECTION AND MAINTENANCE REQUIREMENTS

This section outlines monitoring, inspection and maintenance requirements specified by the approved O&M Plan.

2.1 Monitoring Requirements

The analytical program for the site is based on the requirements of Title 6 NYCRR Subdivision 360-2.11(c) and 360-2.17(f). Previous revisions to the monitoring program were approved in May 2009. The most recent revisions are provided in May 19, 2021 and April 26, 2022 letters from the NYSDEC included in Appendix B, which took effect spring 2022. These updates include conducting annual groundwater sampling and analysis each fall and eliminating sampling of monitoring wells MW-3S, MW-15S and MW-16S. Additionally based on 2021 EC sampling analysis, NYSDEC has requested annual EC sampling and analysis for monitoring wells CW-3B, CW-4A, CW-4B and MW-17S, and MW-5D annually for 1,4-Dioxane.

Table 2-1 presents the approved monitoring program, with the current analyte list presented in Table 2-2. Sampling locations are presented in Figure 2. Monitoring is conducted primarily annually and includes testing groundwater, surface water, leachate, air quality and four residential water supplies. Details of the approved monitoring requirements are provided below.

- Each fall, 13 monitoring wells are sampled for field parameters, VOCs and metals listed on Table 2-2. Additionally CW-3B, CW-4A, CW-4B and MW-17S are sampled annually for EC and MW-5D is tested annually for 1,4-Dioxane. Surface water location SWS-1, Groundwater cut-off system locations MH-32 and MW-33, and leachate sump LS-1 are sampled annually for non-EC parameters listed on Table 2-2. Due to dry conditions often preventing surface water sampling in the fall, starting in 2016, surface water sampling is generally conducted in spring.
- Static groundwater levels are required to be measured in the monitoring wells and piezometers located on and around the landfill cap as part of each fall monitoring event. Groundwater elevations are used to construct potentiometric maps. Table 2-3 provides a tabular listing of the current year's static water elevations along with well

construction information.

- Air quality monitoring is conducted annually to check for the presences of landfill gas. Landfill cap vents, leachate collection system cleanouts and landfill perimeter air monitoring is conducted each fall for VOCs, Lower Explosive Level (LEL) and Oxygen (O₂). Air quality monitoring locations are presented in Figure 5.
- Four residential water supplies, designated as WAL-1, WAL-2, WAL-5 and WAL-19 are included in the monitoring program (Figure 2). WAL-1, WAL-2 and WAL-5 require annual monitoring each fall when occupied. WAL-1 was unoccupied for several years until 2016, when it was added back into the monitoring program as a generally full-time occupied residence. WAL-2 is a minimally occupied hunting camp. WAL-5 residence is unoccupied and has not been monitored since 2014. WAL-19 is a generally full-time occupied residence adjacent to the southwest side of the landfill. The Village of Wellsville continues to provide contracted maintenance of a water filtration system at WAL-19. The filter system includes a particulate filter and two granulated activated carbon (GAC) filters plumbed in series. This water supply is sampled semi-annually (spring and fall). Water samples are collected for VOCs analysis before the first GAC filter (sample location: WAL-19 Pre), between the GAC filters (WAL-19 Inter) and after the second GAC filter (WAL-19 Post).

Additionally a new residence is being constructed on the WAL-19 property (currently the same address as WAL-19) with a water supply well (WAL-22) installed in 2023 and sampled in 2024. Results of the 2024 WAL-22 sampling were reported to NYSDEC in a letter entitled *Private Water Supply Sampling Report, Wellsville-Andover Landfill Site No 90224*, dated September 26, 2024. WAL-22 2024 sampling analysis does not indicate notable water quality degradation.

2.2 Inspection and Maintenance Requirements

Site inspection and maintenance requirements are specified in the O&M Plan and include the following.

- Conduct quarterly inspections and maintenance (if required) of cover system, leachate collection and storage system, gas venting system, storm water system, groundwater monitoring system, and facility access system (i.e. access roads and gates). Quarterly Inspection and Maintenance Checklists are provided within the O&M Plan and are completed by Village of Wellsville Department of Public Works personnel.
- Annual mowing of the vegetative cover is performed by Village of Wellsville personnel.
- The Village of Wellsville is responsible for maintenance of a residential water treatment unit at residence WAL-19, located at 3914 Snyder Hill Road.

3.0 GROUNDWATER MONITORING RESULTS

Groundwater monitoring was conducted in fall 2024. The fall event is a Site wide monitoring event which includes sampling and analysis of 13 monitoring wells. Table 3-1 provides last three years of groundwater analytical results and includes NYSDEC Class GA Standard (TOGS 1.1.1), NYSDEC Class GA Guidance Value (TOGS 1.1.1) and NYSDOH Maximum Contaminant Level (MCL) exceedances listed in bold. Table 3-2 lists the last three years of EC analytical results with comparisons to NYSDOH MCL and NYSDEC Class GA Guidance Values (NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs). Monitoring well locations are presented in Figure 2. Field sampling forms are included in Appendix C. Concentration time trend plots for parameters that most frequently exceed Class GA Standards for each monitoring well sampled during 2024 are presented in Appendix F.

3.1 Fall Monitoring Event Results

Groundwater samples were collected from 13 monitoring wells scheduled for sampling during the fall 2024 monitoring event. A discussion of the analytical results is provided below.

Inorganic Compounds (metals)

Groundwater samples were analyzed for fifteen metals during the fall 2024 sampling event (Table 2-2). Iron, Manganese and Sodium exceeded Class GA standards in 2024 and are the metals that exceed Class GA Standards on a frequent basis. Concentration time trend plots for these three metals have been created to graphically present the most recent 10 years of monitoring data. These plots are presented in Appendix F for monitoring wells that have shown NYSDEC Class GA Standard exceedances of these metals during this time period. Monitoring wells CW-3A, CW-3B, CW-4A, CW-4B, MW-4D, MW-5D, MW-5S, MW-11S, MW-17D, MW-17S, MW-18D and MW-18S are included. These graphs illustrate generally stable Iron, Manganese and Sodium concentrations for the past 10 years. These three metals have been detected at various concentrations above standards at both upgradient and downgradient wells. Also consistent with historical data, 2024 MW-11S and MW-17S Magnesium results are above NYSDEC Class GA Guidance Value. These detected metals are common soil constituents and regionally occur naturally at the concentrations detected in Site groundwater.

VOCs

Groundwater from each well sampled during the fall 2024 sampling event was analyzed for VOCs, which include 36 compounds (Table 2-2). Consistent with historical monitoring data, 2024 results show cis-1,2-Dichloroethene (cDCE), Trichloroethene (TCE) and Vinyl chloride exceeding Class GA Standards. These three VOCs are the primary Site constituents of interest and commonly exceed Class GA Standards. Therefore concentration time trend plots for these three VOCs have been created. The plots include data from 2015 through 2024 and are included in Appendix F for monitoring wells that have shown Class GA Standard exceedances for these compounds. Graphs are included for monitoring wells CW-3A, CW-3B, MW-3D, MW-4D, MW-5D, MW-5S, MW-11S, MW-17S and MW-18S. A discussion of the VOC time trend graphs is provided below.

- Downgradient overburden well CW-3A TCE concentrations are generally stable at approximately 0.02 mg/L, while cDCE and Vinyl chloride have been near or below reporting limit the last 10 years.
- TCE at downgradient overburden well CW-3B has varied between 0.36 mg/L and 0.47 mg/L and has been primarily stable. cDCE concentrations have been stable at approximately 0.1 mg/L and Vinyl chloride has been non-detect.
- Upgradient bedrock well MW-3D has shown cDCE generally stable with minor variations between approximately 0.0014 mg/L and 0.0092 mg/L over this 10 year monitoring period. The cDCE variations over time are likely associated with changes in groundwater levels but do not directly correlate with the measured groundwater elevations. TCE and Vinyl chloride results are primarily non-detect.
- Cross-gradient bedrock well MW-4D has shown cDCE and Vinyl chloride on a generally decreasing to stable trend, while TCE has been primarily non-detect.
- Cross-gradient bedrock well MW-5D exhibits low-level detections of TCE and Vinyl chloride throughout this 10 year monitoring period. cDCE has been generally stable between approximately 0.00052 mg/L and 0.88 mg/L with some direct correlation to groundwater elevation. NYSDEC has requested 1,1-Dichloroethene and Trans-1,2-Dichloroethene are also included on the MW-5D plot. The graph shows these two parameters at or near reporting limits the last 10 years.
- Cross-gradient overburden well MW-5S exhibits generally stable cDCE, TCE and Vinyl chloride since 2015.
- Downgradient overburden well MW-11S has shown Vinyl chloride near reporting limits and cDCE has been stable at approximately 0.3 mg/L. TCE appears generally stable between 1.9 mg/L and 3.5 mg/L with an apparent decrease the last three years.

- Cross-gradient overburden well MW-17S shows cDCE concentrations with a slight decreasing trend starting in 2015. TCE and Vinyl chloride concentrations have been at or near reporting limits.
- Cross-gradient overburden well MW-18S has generally exhibited cDCE, TCE and Vinyl Chloride concentration near or below reporting limits the last 10 years. However, TCE was detected at 0.021 mg/L in 2022, which represents a moderate increase. Sample results after 2022 shows TCE back to historical levels. 2024 TCE concentration of 0.001 mg/L is below the Class GA Standard.

Emerging Contaminants (ECs)

As required by NYSDEC letter dated April 26, 2022 (Appendix B), the NYSDEC assessed the EC sampling results detailed within the 2021-2022 PPR and requested monitoring wells CW-3B, CW-4A, CW-4B and MW-17S continue to be sampled annually for PFAS and 1,4-Dioxane. Additionally, MW-5D is required to be sampled annually for 1,4-Dioxane only. EC results for the last three years are presented in Table 3-2 and the 2024 laboratory analytical report is included in Appendix D. The table below provides the 2024 detected PFAS compounds in ng/L (nanograms per liter or parts per trillion) and 2024 detected 1,4-Dioxane compounds in ug/L (micrograms per liter or parts per billion) with concentration in bold exceeding guidance value.

Parameter	Units	CW3B-1024	CW4A-1024	CW4B-1024	MW17S-1024	MW5D-1024	Guidance Value GA
Perfluorobutanesulfonic Acid (PFBS)	ng/L	1.65 J	1.12 J	1.22 J	1.49 J	NA	----
Perfluorobutanoic Acid (PFBA)	ng/L	ND	4.49 J	6.56 J	ND	NA	----
Perfluoroheptanoic Acid (PFHpA)	ng/L	3.7 J	ND	ND	5.33 PF-CCV-H	NA	----
Perfluorohexanesulfonic Acid (PFHxS)	ng/L	2.67 J	ND	ND	1.55 J	NA	----
Perfluorohexanoic Acid (PFHxA)	ng/L	6.52	ND	0.736 J	4.71	NA	----
Perfluorononanoic Acid (PFNA)	ng/L	ND	ND	1.32 J	0.95 J	NA	----
Perfluorooctanesulfonic Acid (PFOS)	ng/L	10.2	5.4	2.21 J	ND	NA	2.7
Perfluorooctanoic Acid (PFOA)	ng/L	4.11	3.95	4.15	14.6	NA	6.7
Perfluoropentanesulfonic Acid (PFPeS)	ng/L	1.88 J	ND	ND	ND	NA	----
Perfluoropentanoic Acid (PFPeA)	ng/L	2.6 J	ND	0.512 J	ND	NA	----
Total PFAS	ng/L	33.33	14.96	16.708	28.63	NA	----
1,4-Dioxane	ug/L	0.8	0.31	0.33	0.4 *	0.33	0.35

J - Estimated Value, ND - Not Detected, NA – Not Analyzed, Concentrations in **bold** exceed Guidance Value,

PF-CCV-H - CCV recovery above control limits, * - Analysis conducted outside recommended hold time,

---- - Not Applicable

Many of the above EC detections are flagged “J”, indicating the result is a low-level estimated value between the laboratory method detection limit and laboratory reporting

limit. These values are estimated as they are not accurately quantified at this low-level concentration. The three compounds with guidance values are PFOS, PFOA and 1,4-Dioxane. Results above guidance values are listed in bold in the above table.

3.2 Data Quality Assessment

Samples were collected following proper procedures and were placed in laboratory supplied, pre-labeled containers, pre-preserved as appropriate, recorded on chain-of-custody form(s), placed in coolers, and packed with bagged wet ice. At the end of each sampling day, chain-of-custody forms were reviewed for completeness, coolers were re-iced and sealed. Samples were received by the laboratory in good condition and within temperature requirements. Samples were generally analyzed within appropriate hold times and the laboratory reported no significant analysis anomalies. Additional data quality control information is provided in the laboratory analytical reports located in Appendix D. The results presented in this report should be considered technically correct and usable.

Field Duplicate Samples

A field duplicate sample was collected during the fall sampling event. A field duplicated sample (DUP1-1024) was collected from monitoring well MW-17S on October 17, 2024. Results from the MW-17S sample compare favorably with the associated duplicate sample, indicating good sampling and analysis precision. A field duplicate sample comparison is presented in Table 3-3.

Field Equipment Blank Sample

A field sampling pump equipment blank sample was collected during the fall sampling event (EB1-1024). The field equipment blank sample was collected by pumping laboratory provided deionized water through the sampling pump and tubing. Sample EB1-1024 was collected from the bladder pump and tubing used to sample monitoring wells MW-4D, MW-5D, MW-11S and MW-18S. The 2024 equipment blank results are primarily non-detect and consistent with deionized water, indicative of proper sampling equipment cleaning. Equipment blank results are provided in Table 3-4.

3.3 Potentiometric Mapping

Prior to monitoring well purging and groundwater sample collection, static groundwater levels were measured at monitoring wells and piezometers. The fall 2024 groundwater elevations represent generally low groundwater elevation setting (dry conditions) and are utilized to develop separate potentiometric maps for wells screened in overburden and wells screened in bedrock. The potentiometric maps for 2024 are included as Figures 3

and Figure 4. Each contour represents a line of equivalent groundwater elevation. The direction of groundwater flow is generally to the southwest from higher to lower groundwater elevation. The 2024 potentiometric maps are consistent with historical groundwater level data indicating stable and predictable groundwater flow.

4.0 SURFACE WATER AND SEDIMENT MONITORING RESULTS

Surface water and sediment location SWS-1 is positioned at the southwest corner of the landfill at the downstream side of the culvert within the drainage ditch that leads to an unnamed tributary to Duffy Hollow Creek (Figure 2). Both the unnamed tributary and Duffy Hollow Creek are classified as NYSDEC Class C streams. Surface water and sediment sampling at SWS-1 is required on an annual basis. In 2024 SWS-1 was sampled on April 17, 2024. Sediment was not observed within the surface water ditch in 2024 as typical and therefore not sampled. Surface water results from the last three samplings are presented in Table 4-1. The 2024 surface water results are below Class C Standards with VOCs reported primarily non-detect.

5.0 LEACHATE SUMP AND MANHOLE MONITORING RESULTS

Water samples are required to be collected at Leachate Sump (LS-1) and two groundwater cut-off manholes (MH-32 and MH-33) annually. Sampling locations are presented in Figure 2. Table 5-1 lists results from the last three years with comparisons to Class GA Standards and Guidance Values. A discussion of leachate sump and manhole analytical results is provided below.

5.1 Leachate Monitoring Results

Metals

Metals were analyzed in one leachate sample during 2024. Metals detected in 2024 include Barium, Calcium, Iron, Magnesium, Manganese, Nickel, Potassium and Sodium. 2024 Metals results are consistent with historical data and show Iron, Manganese and Sodium exceeding Class GA Standards. A concentration time trend plot for Iron, Manganese and Sodium is included in Appendix F. This plot illustrates LS-1 Iron, Manganese and Sodium concentrations generally stable the last 10 years.

VOCs

VOCs were analyzed in one leachate sample during 2024 with results consistent with historical data. TCE and Vinyl chloride concentrations are typically observed near reporting limits. cDCE is generally detected at concentrations up to 0.47 mg/L. In 2024 LS-1 VOC results are non-detect. A concentration time trend plot for cDCE, TCE and Vinyl Chloride is included in Appendix F.

5.2 **Manhole Monitoring Results**

Metals

Metals were analyzed in two manhole water samples in fall 2024. Metals detected in 2024 at MH-32 or MH-33 includes Barium, Calcium, Chromium, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium and Zinc. 2024 Manhole metals results are consistent with historical data and show Class GA exceedances for Iron and Manganese at MH-32 and Iron at MH-33. Concentration time trend plots for Iron, Manganese and Sodium have been created as presented in Appendix F. MH-32 and MH-33 Iron, Manganese and Sodium concentrations appear generally stable the last 10 years.

VOCs

VOCs were analyzed in two manhole water samples in fall 2024. MH-32 shows detections of 1,4-Dichlorobenzene (0.0013 J mg/L), cDCE (0.75 mg/L), Dichloromethane (0.026 mg/L), Toluene (0.0011 J mg/L), trans-1,2-Dichloroethene (0.0021 J mg/L), TCE (0.2 mg/L) and Vinyl chloride (0.0026 J mg/L), which are generally typical for this location. MH-33 2024 VOC shows detections of 1,4-Dichlorobenzene (0.00023 J mg/L), cDCE (0.022 mg/L), TCE (0.0027 mg/L) and Vinyl chloride (0.00052 J mg/L). Concentration time trend plots for cDCE, TCE and Vinyl chloride are included in Appendix F. MH-32 cDCE concentrations have fluctuated from near reporting limit to 9.1 mg/L while TCE and Vinyl chloride are generally at or near reporting limit the last 10 years. With the exception of fall 2023 MH-33 has shown cDCE, TCE and Vinyl chloride at or near reporting limits the last 10 years. The moderate increase observed in 2023 may be related to dry conditions.

General Chemistry

Manholes MH-32 and MH-33 samples were analyzed for Nitrate Nitrogen and Total Dissolved Solids (TDS) in 2024. The 2024 MH-32 and MH-33 General Chemistry results are within Class GA Standards.

6.0 **AIR QUALITY MONITORING RESULTS**

Air monitoring at the landfill perimeter, gas vents and LCS locations were conducted during the fall 2024 event utilizing a QRAE Mini RAE 3000 Photo Ionization Detector (PID) for VOCs and a QRAE3 four-gas meter for Oxygen (O₂) and Lower Explosive Limit (LEL). Please see Figure 5 for monitoring locations.

Prior to commencing air monitoring, the air monitoring instruments were properly

calibrated according to manufacturer specifications. PID readings at the gas vents, LCS manholes and clean-out vents range from 0.0 ppm to 18.4 ppm. Oxygen levels ranged from 0.0% to 20.9%. 2024 LEL readings range from 0% to >99%. Upwind and downwind PID and LEL readings at the landfill perimeter are not above background readings, indicating no measurable landfill gas at the landfill perimeter. Oxygen readings at the landfill perimeter are also within normal range. The air monitoring readings are recorded in tabular form and presented in Table 6-1.

7.0 RESIDENTIAL WATER SUPPLY MONITORING RESULTS

Four residential water supplies were sampled in 2024. Residential location WAL-22 was sampled in the spring. WAL-19 was sampled in the spring and fall 2024. Locations WAL-1 and WAL-2 were sampled in the fall 2024. WAL-5 was not sampled as it remains vacant. Table 7-1 presents an overview of 2024 residential contact information and sampling summary. Table 7-2 is a tabular listing of 2024 residential water analytical results. Figure 2 presents the approximate sampling locations. Letters mailed to the property owners providing the 2024 sampling results are included as Appendix G. A discussion of analytical results is provided below.

Metals

WAL-1 2024 metals results are below NYSDOH MCLs and Class GA Standards. WAL-2, sampled for metals only, shows Iron at 0.87 mg/L, Manganese at 0.934 mg/L and Sodium at 38.4 mg/L exceeding the NYSDOH MCLs and Class GA Standards. The WAL-2 2024 metals results are consistent with historical results and ambient groundwater quality. The water quality exceedances are likely naturally occurring detections and not associated with the landfill. WAL-22 2024 metals results are below NYSDOH MCLs and Class GA Standards. Metals analysis is not required at WAL-19.

VOCs

The residential water supply samples requiring VOC analysis are tested for Target Compound List VOCs (method 524.2) as required by the current O&M Plan. WAL-1 VOCs are non-detect in 2024, as typical. VOC analysis is not required at WAL-2. WAL-19 was tested for VOCs before filters, between filters, and after filters on April 17, 2024 and again on October 15, 2024. WAL-19 results are typical of historical data with detected compounds cDCE and TCE before filters at concentrations below Class GA standards and NYSDOH MCLs and non-detect after filtration. WAL-22 VOCs are non-detect with exception of Bromomethane at a low-level estimated value of 0.35 ug/L.

Proposed WAL-22 Monitoring Schedule

Residential water supply well WAL-22 was installed in May 2023 and is located

approximately 700 feet southeast of the landfill. Water quality was evaluated by sampling and analysis conducted in June 2024. This sampling analysis included metals, VOCs and ECs. The sampling analysis indicates generally good water quality with ECs reported non-detect. However as a precautionary measure, future sampling analysis is proposed on an annual frequency, starting when the residence is occupied. The annual sampling analysis is proposed to include the following:

- metals by method EPA 200.7/EPA 200.8; and
- VOCs by method EPA 524.2.

This proposed WAL-22 sampling analysis is consistent with other ongoing residential sampling analysis of residential water supplies neighboring the landfill.

8.0 INSPECTIONS AND MAINTENANCE ACTIVITIES

Quarterly Inspections and routine maintenance were performed by Village of Wellsville personnel and recorded on the Quarterly Inspection and Maintenance Checklist provided in the O&M Plan. Quarterly inspections were completed on March 29, June 28, September 26 and December 30, 2024. No unresolved problems were noted on the inspection forms. The 2024 completed inspection forms are included in Appendix E. A description of maintenance activities performed during 2024 is provided below.

- The landfill cap vegetative cover was mowed by Village of Wellsville in October 2024.
- Clean soil backfill was placed in shallow surface burrows of cover surface soil adjacent to gas vents V-4, V-9, V-11, V-14, V-16, V-17 and piezometer PZ-2.
- The Village of Wellsville continues to contract maintenance of the water treatment unit at WAL-19 residence.
- Fall 2024 Village of Wellsville replaced leachate sump pump number 2.
- Between May 14 and June 6, 2024 leachate collection system manholes and laterals were cleaned by JJH Power wash utilizing water jet with oversight provided by On-Site. Details of this work are presented in Table 8-1.
- Approximately 1,605,000 gallons of leachate was hauled by Village of Wellsville from the Site to the Village of Wellsville POTW during 2024.

The table below lists the total leachate gallons by year for the previous six years.

Year/Gallons	2018	2019	2020	2021	2022	2023	2024
	2,891,240	2,480,000	1,990,000	2,128,000	1,390,000	1,485,000	1,605,000

9.0 CONCLUSIONS

Monitoring and maintenance activities are being performed as required at the Wellsville/Andover Landfill. Routine maintenance and inspections are being conducted to maintain the Site. The approved monitoring plan requires annual groundwater EC

sampling starting in 2021. Twenty-seven years of post-closure monitoring has been completed and illustrates the Site is stable. Monitoring will continue as required by the approved plan detailed in Section 2 of this report. Maintenance activities planned for 2025 include:

- annual mowing of landfill cap vegetation;
- leachate management and disposal;
- leachate collection system cleaning; and
- WAL-19 water treatment unit maintenance.

Tables

Table 2-1

**Monitoring Requirements
Wellsville/Andover Landfill
Wellsville, New York**

Location	Sampling Frequency	Analyte List ¹

Groundwater⁸

CW-3A	Annual - Fall	Field, VOCs, Metals
CW-3B	Annual - Fall	Field, VOCs, Metals, ECs
CW-4A	Annual - Fall	Field, VOCs, Metals, ECs
CW-4B	Annual - Fall	Field, VOCs, Metals, ECs
MW-17D	Annual - Fall	Field, VOCs, Metals
MW-17S	Annual - Fall	Field, VOCs, Metals, ECs
MW-18D	Annual - Fall	Field, VOCs, Metals
MW-18S	Annual - Fall	Field, VOCs, Metals
MW-3D	Annual - Fall	Field, VOCs, Metals
MW-4D	Annual - Fall	Field, VOCs, Metals
MW-5D	Annual - Fall	Field, VOCs, Metals, 1,4-D
MW-5S	Annual - Fall	Field, VOCs, Metals
MW-11S	Annual - Fall	Field, VOCs, Metals

Leachate

LS-1	Annual - Fall	Field, VOCs, Metals

Groundwater Cut-Off System

MH-32	Annual - Fall	Field, VOCs, Metals, NO ₃ , TDS
MH-33	Annual - Fall	Field, VOCs, Metals, NO ₃ , TDS

Notes

Revised monitoring program is based on: April 3, 2009 On-Site letter *Site Monitoring Evaluation and Proposed Revised Monitoring Program*; NYSDEC May 12, 2009 response follow up e-mail and May 19, 2021 NYSDEC Letter (Appendix B).

¹ - Field = Field Parameters (WL, pH, Conductivity, Dissolved Oxygen, Turbidity, Oxidation Reduction Potential)

- VOCs = Volatile Organic Compounds method 8260

- Metals = As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, K, Se, Na, Z

- NO₃ = Nitrate Nitrogen and TDS = Total Dissolved Solids

- ECs = PFAS & 1,4-Dioxane

- 1,4-D = 1,4-Dioxane

² WAL-19 tested for VOCs prior to filters, between filters and after filters

³ Wet Chemistry - Color, TOC, Total Phenolics, Alkalinity, BOD, Cl, Br, SO₄, TDS, NO₃, NH₃, COD, TKN

⁴ Annual periodic review report will include details of the year's monitoring results, comparison of results to standards and historic results, potentiometric maps, details operation and maintenance and IC/EC certification.

⁵ Residential VOCs are tested using method 524.2

⁶ Starting in 2016 Surface Water and Sediment sampling changed from fall to spring due to dry conditions in fall often prohibiting sample collection

⁷ Starting 2016, WAL-1 residential water supply added back into the monitoring programs as this residence is occupied.

⁸ Starting 2022, only annual groundwater sampling required in Fall. Additionally, MW-3S, MW-15S and MW-16S removed from sampling program and annual EC sampling added to select monitoring wells.

Location	Sampling Frequency	Analyte List ¹

Residential Water Supply

WAL-1 ⁷	Annual - Fall	VOCs ⁵ , Metals
WAL-2	Annual - Fall	Metals
WAL-5	Annual - Fall	VOCs ⁵ , Metals
WAL-19	Semiannual - Spring/Fall	VOCs ^{2,5}

Landfill Gas Monitoring

Vents	Annual - Fall	PID, LEL, O ₂
Leachate Clean-outs	Annual - Fall	PID, LEL, O ₂
Manholes	Annual - Fall	PID, LEL, O ₂
Perimeter	Annual - Fall	PID, LEL, O ₂

Surface Water⁶

SWS-1	Annual - Spring	Field, VOCs, Metals, Wet Chem ³

Sediment⁶

SWS-1	Annual - Spring	Field, VOCs, Metals, Wet Chem ³

Groundwater Level Monitoring

Active Wells	Annual - Fall	Depth to Groundwater

Reporting

Annual	Annual Periodic Review Report ⁴

Table 2-2

**Approved Analyte List
Wellsville/Andover Landfill
Wellsville, New York**

Field Parameters	Volatile Organic Compounds
Specific Conductance	1,1,1-Trichloroethane
Temperature	1,1,2,2-Tetrachloroethane
Field pH	1,1,2-Trichloroethane
Oxygen Reduction Potential	1,1-Dichloroethane
Dissolved Oxygen	1,1-Dichloroethene
Turbidity	1,2-Dibromoethane
	1,2-Dichloroethane
	1,2-Dichloropropane
	2-Butanone (MEK)
	2-Hexanone
	4-Methyl-2-pentanone
	Acetone
	Benzene
	Bromodichloromethane
	Bromoform
	Bromomethane
	Carbon disulfide
	Carbon tetrachloride
	Chlorobenzene
	Chloroethane
	Chloroform
	Chloromethane
	cis-1,2-Dichloroethene
	cis-1,3-Dichloropropene
	Dibromochloromethane
	Dichloromethane (Methylene chloride)
	Ethyl benzene
	m&p-Xylene
	o-Xylene
	Styrene
	Tetrachloroethene
	Toluene
	trans-1,2-Dichloroethene
	trans-1,3-Dichloropropene
	Trichloroethene
	Vinyl chloride
Inorganic Compounds	Emerging Contaminants (EC)
Arsenic	PFAS by EPA 1633
Barium	1,4-Dioxane
Cadmium	
Calcium	
Chromium	
Copper	
Iron	
Lead	
Manganese	
Magnesium	
Nickel	
Potassium	
Selenium	
Sodium	
Zinc	
Groundwater Cut-Off System General Chemistry	
Nitrate Nitrogen	
Total Dissolved Solids	
Surface Water and Sediment General Chemistry	
Alkalinity	
Ammonia Nitrogen	
Biochemical Oxygen Demand	
Bromide	
Chemical Oxygen Demand	
Chloride	
Color (True) (C.U.)	
Nitrate Nitrogen	
Sulfate	
Total Dissolved Solids	
Total Kjeldahl Nitrogen	
Total Organic Carbon (TOC)	
Total Phenolics	

Table 2-3

**2024 Static Groundwater Level Monitoring Data
Wellsville/Andover Landfill
Wellsville, New York**

Well Number	Well Diameter (in)	TOC Elevation (ft amsl)	Protective Casing Elevation (ft amsl)	Ground Elevation (ft amsl)	Well Depth from TOC (ft)	Screened Interval from Ground (ft)	Screened Bedrock or Overburden	10/16/2024 DTW From TOC (ft)	10/16/2024 Static Water Elevation (ft amsl)
MW-1D	2	2193.32	2193.75	2190.6	77.39	64 - 74	Bedrock	70.15	2123.17
MW-3D	2	2095.80	2096.07	2092.4	46.75	30 - 40	Bedrock	21.52	2074.28
MW-3S	2	2095.70	2095.96	2093.1	25.92	9 - 19	Overburden	12.63	2083.07
MW-4D	2	2092.22	2092.39	2090.3	24.63	12 - 22	Bedrock	14.04	2078.18
MW-5D*	2	2067.58	2067.78	2065.4	37.74	26.5 - 36.5	Bedrock	4.23	2063.35
MW-5S	2	2067.30	2067.59	2065.5	21.20	10 - 20	Overburden	3.33	2063.97
MW-7D	2	2012.13	2012.69	2009.6	47.97	35 - 45	Bedrock	37.68	1974.45
MW-11S	2	2003.52	2003.86	2001.6	20.40	8 - 18	Overburden	8.83	1994.69
MW-15S	2	2022.88	2023.05	2020.2	22.10	9 - 19	Overburden	DRY	<2000.84
MW-15DA	2	2022.67	2023.08	2020.4	56.28	43 - 53	Bedrock	56.15	1966.52
MW-16D	2	1924.73	1925.25	1922.0	53.00	40 - 50	Bedrock	28.61	1896.12
MW-16S	2	1924.98	1925.15	1922.2	18.67	6 - 16	Overburden	14.56	1910.42
MW-17D	4	2037.36	NA	2034.9	65.1	48 - 63 (open hole)	Bedrock	32.73	2004.63
MW-17S	2	2037.59	2037.68	2034.6	26.94	9 - 24	Overburden	9.44	2028.15
MW-18D	4	2066.19	NA	2062.6	28.50	24.5 - 39.5 (open hole)	Bedrock	14.71	2051.48
MW-18S**	2	2064.60	2065.72	2063.0	20.49	4 - 19	Overburden	11.51	2054.21
CW-3A	2	2013.75	2013.90	2012.9	27.47	21 - 26	Overburden	10.42	2003.33
CW-3B	2	2013.90	2014.10	2012.9	37.70	33.5 - 38.5	Overburden	21.33	1992.57
CW-4A	2	2006.11	2006.35	2004.7	19.12	13 - 18	Overburden	6.59	1999.52
CW-4B	2	2005.84	2005.93	2004.7	30.16	25.5 - 30.5	Overburden	5.96	1999.88
PZ-1	2	2095.11	2095.27	2092.2	NM	6 - 13	Overburden/ Refuse	16.04	2079.07
PZ-2	2	2095.83	2096.13	2092.9	NM	14 - 24	Overburden/ Refuse	21.15	2074.68
PZ-4	2	2067.13	2067.38	2064.4	NM	12 - 22	Overburden/ Refuse	26.05	2041.08
PZ-5	2	2059.71	2059.71	2056.7	NM	8 - 18	Overburden/ Refuse	13.10	2046.61
PZ-6	2	2042.18	2042.31	2039.2	NM	8 - 18	Overburden/ Refuse	DRY	<2019.53

Notes:

Dry - Water not present

NM - Not Measured

NA - Not Applicable

* MW-5D Repaired on 10/29/2019. After repair measured new TOC elevation at 2067.58 ft and Protective Casing at 2067.78 ft

** MW-18S 10/23/2023 groundwater measured from top protective casing

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	CW-3A 10/20/2022	CW-3A 10/25/2023	CW-3A 10/21/2024	CW-3B 10/18/2022	CW-3B 10/25/2023	CW-3B 10/21/2024	CW-4A 10/19/2022	CW-4A 10/25/2023	CW-4A 10/21/2024	CW-4B 10/18/2022	CW-4B 10/25/2023	CW-4B 10/21/2024	Class GA Standard	Guidance Value GA	NYSDOH MCL
Field Parameters															
Depth to Groundwater (ft)	9.79	10.43	10.49	20.78	21.85	21.44	6.6	7.52	6.88	5.62	9.68	5.98			
Dissolved Oxygen	9.42	6.69	7.28	0.91	1.63	0.28	7.31	0.46	0.28	4.42	1.95	1.91			
Field pH (std. units)	12.01	11.99	12.1	6.59	6.88	6.81	6.33	6.46	6.4	6.58	6.81	6.71	6.5 - 8.5		
ORP (mV)	96.3	-1	-53.2	139.6	147.4	102	106.6	161.2	121.7	194.8	163.5	139.7			
Specific Conductivity (us/cm)	1479	1251	1315	604.9	563.9	604.6	279.9	276.4	317.1	353.5	325.6	346.7			
Temperature (deg. C)	4.9	15.7	15.5	7.8	12.5	12.3	9.7	13.2	18.5	9.9	13.1	14			
Turbidity (NTU)	1.15	23.2	6.97	3.4	1.32	1.14	9.61	12.5	13.3	0.57	1.14	0.58	5		5
Inorganic Compounds															
Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025		0.01
Barium	0.098	0.092	0.107	0.039	0.036	0.035	0.056	0.051	0.067	0.03	0.029	0.026	1		2
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Calcium	123	119	106	69.6	68	65.8	29.1	29.1	31.4	39.7	38.7	37.8			
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05		0.1
Copper	0.02 U	0.007 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.2		1.3
Iron	0.51	0.1 U	0.1 U	0.1	0.1 U	0.1 U	0.28	0.36	0.45	0.1 U	0.1 U	0.1 U	0.3		0.3
Lead	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025		0.015
Magnesium	1 U	3.8	1.3	35.4	35.5	33.5	16.2	16	15.9	17	16.8	15.8		35	
Manganese	0.01	0.037	0.01 U	0.041	0.027	0.024	0.293	0.199	0.801	0.033	0.214	0.145	0.3		0.3
Nickel	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.003 J	0.04 U	0.04 U	0.04 U	0.04 U	0.1		0.1
Potassium	12.4	11.7	12.7	2.6	2.5	2.4	2 U	1.3 J	1.4 J	2 U	1.8 J	1.8 J			
Selenium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01		0.05
Sodium	36.4	39.5	44.5	21.9	22.1	21.6	13.6	13.3	13	14.7	14.5	14.2	20		
Zinc	0.02 U	0.022	0.007 J	0.02 U	0.008 J	0.02 U	0.02 U	0.016 J	0.007 J	0.02 U	0.005 J	0.013 J		2	5
Volatile Organic Compounds															
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1,2-Trichloroethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
1,1-Dichloroethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.00065 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.005 U	0.0011 J	0.0011 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,2-Dibromoethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	CW-3A 10/20/2022	CW-3A 10/25/2023	CW-3A 10/21/2024	CW-3B 10/18/2022	CW-3B 10/25/2023	CW-3B 10/21/2024	CW-4A 10/19/2022	CW-4A 10/25/2023	CW-4A 10/21/2024	CW-4B 10/18/2022	CW-4B 10/25/2023	CW-4B 10/21/2024	Class GA Standard	Guidance Value GA	NYSDOH MCL
Volatile Organic Compounds (con't)															
1,2-Dichloroethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006		0.005
1,2-Dichloropropane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
2-Butanone (MEK)	0.005 U	0.005 U	0.005 U	0.025 U	0.013 U	0.013 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005	0.05	0.05
2-Hexanone	0.005 U	0.005 U	0.005 U	0.025 U	0.013 U	0.013 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.05
4-Methyl-2-pentanone	0.005 U	0.005 U	0.005 U	0.025 U	0.013 U	0.013 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.05
Acetone	0.005 U	0.005 U	0.005 U	0.025 U	0.013 U	0.013 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.05	0.05
Benzene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
Bromodichloromethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.05	0.08
Bromoform	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.05	0.08
Bromomethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Carbon disulfide	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.06	0.06
Carbon tetrachloride	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chlorobenzene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chloroethane	0.001 U	0.001 U	0.001 U	0.005 U	0.00095 J	0.0011 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chloroform	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.007		0.08
Chloromethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
cis-1,2-Dichloroethene	0.0048	0.0049	0.0048	0.077	0.078	0.089	0.001 U	0.00097 J	0.001 U	0.001 U	0.00053 J	0.00048 J	0.005		0.005
cis-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004		0.005
Dibromochloromethane	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005	0.05	0.08
Dichloromethane (Methylene chloride)	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U			0.005
Ethyl benzene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
m&p-Xylene	0.002 U	0.002 U	0.002 U	0.01 U	0.005 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005		0.005
o-Xylene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Styrene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Toluene	0.001 U	0.00052 J	0.00044 J	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.005 U	0.00066 J	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.005 U	0.0025 U	0.0025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004		0.005
Trichloroethene	0.026	0.025	0.02	0.36	0.38	0.38	0.001 U	0.00041 J	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.005 U	0.001 J	0.0011 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002		0.002

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW-3D 10/20/2022	MW-3D 10/24/2023	MW-3D 10/16/2024	MW-4D 10/19/2022	MW-4D 10/24/2023	MW-4D 10/16/2024	MW-5D 10/19/2022	MW-5D 10/26/2023	MW-5D 10/16/2024	MW-5S 10/19/2022	MW-5S 10/26/2023	MW-5S 10/22/2024	Class GA Standard	Guidance Value GA	NYSDOH MCL
Field Parameters															
Depth to Groundwater (ft)	21.7	23.12	21.52	15.4	16.16	14.04	4.6	5.5	4.23	4.1	5.26	3.43			
Dissolved Oxygen	6.11	7.04	9.22	5.99	2.18	0.86	5.22	1.39	0.72	4.57	1.11	0.66			
Field pH (std. units)	10.75	9.55	11.55	6.21	6.14	6.25	6.83	6.6	6.81	6.19	6.31	6.11	6.5 - 8.5		
ORP (mV)	214.6	97.4	19.5	33.2	23.2	19.6	9	37.5	78.3	45.2	31.7	0.1			
Specific Conductivity (us/cm)	415.8	332.1	392.4	221.1	248	286.7	155.9	296.8	164.1	144.6	143.8	152.3			
Temperature (deg. C)	5.5	14	6.9	6.6	18.8	8.2	8.1	12.4	12.1	7.7	16.9	11.3			
Turbidity (NTU)	0.36	1.19	0.19	1.94	22.2	3.04	2.24	2.09	0.46	0.93	0.7	1.54	5		5
Inorganic Compounds															
Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025		0.01
Barium	0.065	0.055	0.045	0.02 U	0.036	0.023	0.03	0.057	0.029	0.02 U	0.008 J	0.008 J	1		2
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Calcium	44.9	37.8	26.8	20.2	22.9	24.8	15.1	26.8	15.9	13.5	13.2	12.8			
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05		0.1
Copper	0.02 U	0.02 U	0.02 U	0.02 U	0.005 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.2		1.3
Iron	0.37	0.1 U	0.08 J	0.52	1.32	0.62	1.03	0.31	0.1 U	0.2	0.14	0.2	0.3		0.3
Lead	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025		0.015
Magnesium	6.5	10.7	3.1	18.1	19.6	21.3	9.5	21.1	10.2	9.8	9.8	9.1		35	
Manganese	0.01 U	0.012	0.01 U	1.61	3.22	2.88	0.414	0.844	0.462	0.076	0.08	0.071	0.3		0.3
Nickel	0.04 U	0.04 U	0.04 U	0.04 U	0.01 J	0.019 J	0.04 U	0.04 U	0.014 J	0.04 U	0.04 U	0.04 U	0.1		0.1
Potassium	4.6	4.2	4.5	2.4	2.7	2.3	2 U	1.6 J	1.2 J	2 U	1.3 J	1.3 J			
Selenium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.008 J	0.01 U	0.01 U	0.008 J	0.01 U	0.01 U	0.01 U	0.01		0.05
Sodium	19	18.7	19.4	5.7	5.1	6.4	6.3	8.6	6.5	6.3	5.8	5.8	20		
Zinc	0.02 U	0.008 J	0.014 J	0.021	0.019 J	0.031	0.02 U	0.02 U	0.004 J	0.02 U	0.005 J	0.004 J		2	5
Volatile Organic Compounds															
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00044 J	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1,2-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
1,1-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.00036 J	0.001 U	0.00033 J	0.00022 J	0.001 U	0.00035 J	0.0003 J	0.005		0.005
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.00025 J	0.00024 J	0.001 U	0.0037	0.00052 J	0.001 U	0.00037 J	0.00029 J	0.005		0.005
1,2-Dibromoethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW-3D 10/20/2022	MW-3D 10/24/2023	MW-3D 10/16/2024	MW-4D 10/19/2022	MW-4D 10/24/2023	MW-4D 10/16/2024	MW-5D 10/19/2022	MW-5D 10/26/2023	MW-5D 10/16/2024	MW-5S 10/19/2022	MW-5S 10/26/2023	MW-5S 10/22/2024	Class GA Standard	Guidance Value GA	NYSDOH MCL
Volatile Organic Compounds (con't)															
1,2-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006		0.005
1,2-Dichloropropane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
2-Butanone (MEK)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005	0.05	0.05
2-Hexanone	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.05
4-Methyl-2-pentanone	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.05
Acetone	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.05	0.05
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.00048 J	0.00037 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
Bromodichloromethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.05	0.08
Bromoform	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.05	0.08
Bromomethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Carbon disulfide	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.06	0.06
Carbon tetrachloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.00094 J	0.001 U	0.001 U	0.00047 J	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chloroform	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.007		0.08
Chloromethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
cis-1,2-Dichloroethene	0.0019	0.0022	0.0014	0.16	0.19	0.19 D	0.083	0.38 D	0.11	0.17	0.16	0.15	0.005		0.005
cis-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004		0.005
Dibromochloromethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005	0.05	0.08
Dichloromethane (Methylene chloride)	0.0011	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U			0.005
Ethyl benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0011	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
m&p-Xylene	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005		0.005
o-Xylene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Styrene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001	0.0015	0.0012	0.001 U	0.0015	0.00052 J	0.001 U	0.00052 J	0.00069 J	0.005		0.005
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004		0.005
Trichloroethene	0.001 U	0.0019	0.00042 J	0.0027	0.017	0.00095 J	0.014	0.21 D	0.025	0.031	0.024	0.0097	0.005		0.005
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.077	0.093	0.055	0.0047	0.038	0.0073	0.011	0.012	0.013	0.002		0.002

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW-11S 10/20/2022	MW-11S 10/24/2023	MW-11S 10/22/2024	MW-17D 10/21/2022	MW-17D 10/26/2023	MW-17D 10/17/2024	MW-17S 10/18/2022	MW-17S 10/25/2023	MW-17S 10/17/2024	MW-18D 10/20/2022	MW-18D 10/24/2023	MW-18D 10/17/2024	MW-18S 10/20/2022	MW-18S 10/24/2023	MW-18S 10/17/2024	Class GA Standard	Guidance Value GA	NYSDOH MCL
Field Parameters																		
Depth to Groundwater (ft)	8.22	9.87	9	32.25	33.1	32.8	9.53	9.82	9.45	14.78	15.24	14.72	11.46	12.23	11.56			
Dissolved Oxygen	1.21	0.92	0.65	1.64	1.9	1.97	0.8	0.7	1.09	0.76	0.4	0.56	1.81	0.34	0.56			
Field pH (std. units)	5.75	6.74	6.82	9.48	9.3	9.42	6.49	7.12	7.24	7.56	7.69	7.44	4.93	6.39	6.4	6.5 - 8.5		
ORP (mV)	97.2	45.4	11.3	34.7	45.9	51.9	241.9	131.5	109.4	-78.6	-188.9	-140.5	217.6	-36	118.7			
Specific Conductivity (us/cm)	551.9	507.8	668	287.1	286.8	308.4	946	1146	1250	363.7	348.1	371.7	264.4	235.8	231.8			
Temperature (deg. C)	9.3	12.5	16.1	10.6	19.4	10	8.1	17.8	6.9	7.6	20.8	12	7.4	18.9	12.3			
Turbidity (NTU)	2.27	16.5	5.46	38.4	49.8	58.1	7.35	5.17	4.45	25.7	112	86.7	9.07	5.18	2.56	5		5
Inorganic Compounds																		
Arsenic	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025		0.01
Barium	0.026	0.034	0.035	0.02 U	0.02 U	0.02 U	0.04	0.044	0.049	0.066	0.065	0.073	0.051	0.032	0.036	1		2
Cadmium	0.005 U	0.005 U	0.0004 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005		0.005
Calcium	57	55.3	67.8	2.5	3.4	5.5	76.3	93.4	102	39.4	38.1	39.1	34	30.2	29.2			
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05		0.1
Copper	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.2		1.3
Iron	0.15	0.44	0.24	5.5	9.08	14.1	0.18	0.15	0.14	4.79	9.49	7.47	0.64	2.3	0.45	0.3		0.3
Lead	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025		0.015
Magnesium	35.1	35	41.9	21.4	22.2	22.4	49.8	66.8	73	18.2	19.3	18.6	15.3	14.1	13.4		35	
Manganese	0.814	0.761	0.825	0.108	0.111	0.153	0.047	0.044	0.108	0.495	0.497	0.698	0.156	0.387	0.13	0.3		0.3
Nickel	0.04 U	0.04 U	0.04 U	0.04 U	0.003 J	0.007 J	0.04 U	0.04 U	0.014 J	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.014 J	0.1		0.1
Potassium	2 U	2.1	1.7 J	6.4	4.8	4.6	3.6	3.9	4.2	2.8	2.8	2.6	2.2	1.9 J	1.7 J			
Selenium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01		0.05
Sodium	20.7	20.4	23.5	34.2	33.4	33.5	62.7	78	86.8	20.9	21.6	21	4.8	3.7	3.9	20		
Zinc	0.02 U	0.006 J	0.013 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.017 J	0.02 U	0.006 J	0.003 J	0.026	0.004 J	0.017 J		2	5
Volatile Organic Compounds																		
1,1,1-Trichloroethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1,2,2-Tetrachloroethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1,2-Trichloroethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
1,1-Dichloroethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00072 J	0.0011	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,1-Dichloroethene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
1,2-Dibromoethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005

Table 3-1

Groundwater Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW-11S 10/20/2022	MW-11S 10/24/2023	MW-11S 10/22/2024	MW-17D 10/21/2022	MW-17D 10/26/2023	MW-17D 10/17/2024	MW-17S 10/18/2022	MW-17S 10/25/2023	MW-17S 10/17/2024	MW-18D 10/20/2022	MW-18D 10/24/2023	MW-18D 10/17/2024	MW-18S 10/20/2022	MW-18S 10/24/2023	MW-18S 10/17/2024	Class GA Standard	Guidance Value GA	NYSDOH MCL
Volatile Organic Compounds (con't)																		
1,2-Dichloroethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006		0.005
1,2-Dichloropropane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
2-Butanone (MEK)	0.1 U	0.1 U	0.1 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005	0.05	0.05
2-Hexanone	0.1 U	0.1 U	0.1 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.05
4-Methyl-2-pentanone	0.1 U	0.1 U	0.1 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			0.05
Acetone	0.1 U	0.1 U	0.1 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U		0.05	0.05
Benzene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001		0.005
Bromodichloromethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.05	0.08
Bromoform	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.05	0.08
Bromomethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Carbon disulfide	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U		0.06	0.06
Carbon tetrachloride	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chlorobenzene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chloroethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Chloroform	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.007		0.08
Chloromethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
cis-1,2-Dichloroethene	0.23	0.26	0.29	0.001 U	0.001 U	0.001 U	0.02	0.026	0.03	0.001 U	0.001 U	0.001 U	0.001 U	0.0018	0.00077 J	0.005		0.005
cis-1,3-Dichloropropene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004		0.005
Dibromochloromethane	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005	0.05	0.08
Dichloromethane (Methylene chloride)	0.02 U	0.02 U	0.02 U	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U			0.005
Ethyl benzene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
m&p-Xylene	0.04 U	0.04 U	0.04 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005		0.005
o-Xylene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Styrene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Tetrachloroethene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
Toluene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
trans-1,2-Dichloroethene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 J	0.00028 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005		0.005
trans-1,3-Dichloropropene	0.02 U	0.02 U	0.02 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004		0.005
Trichloroethene	2.7	2.2	1.9	0.001 U	0.001 U	0.001 U	0.0081	0.0073	0.0087	0.001 U	0.001 U	0.001 U	0.021	0.0015	0.001	0.005		0.005
Vinyl chloride	0.02 U	0.0082 J	0.016 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002		0.002

Notes :

U - Concentration not detected at specified limit

J - Estimated Value

D - Concentration is a result of dilution

Concentrations in **bold** exceed Class GA Standards, Guidance Values and or NYSDOH MCL

Table 3-2

Groundwater Emerging Contaminants Analytical Results
(Last 3 Years)
Wellville/Andover Landfill
Wellsville, New York

Parameter	Units	CW-3B 10/18/2022	CW-3B 10/25/2023	CW-3B 10/21/2024	CW-4A 10/19/2022	CW-4A 10/25/2023	CW-4A 10/21/2024	CW-4B 10/18/2022	CW-4B 10/25/2023	CW-4B 10/21/2024	MW-5D 10/19/2022	MW-5D 10/26/2023	MW-5D 10/16/2024	MW-17S 10/18/2022	MW-17S 10/25/2023	MW-17S 10/17/2024	NYSDOH MCL	Guidance Value
11CL-PF3OUdS	ng/L	NA	NA	2.57 U	NA	NA	2.49 U	NA	NA	2.45 U	NA	NA	NA	NA	NA	2.43 U		
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	ng/L	NA	180 U	17.6 U	NA	190 U	17.1 U	NA	180 U	16.8 U	NA	NA	NA	NA	190 U	16.7 U		
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	ng/L	NA	180 U	13.6 U	NA	190 U	13.2 U	NA	180 U	13 U	NA	NA	NA	NA	190 U	12.9 U		
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	ng/L	NA	180 U	3.77 U	NA	190 U	3.66 U	NA	180 U	3.6 U	NA	NA	NA	NA	190 U	3.57 U		
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	ng/L	NA	4.4 U	0.985 U	NA	4.8 U	0.957 U	NA	4.4 U	0.94 U	NA	NA	NA	NA	4.8 U	0.932 U		
6:2 Fluorotelomer sulfonate (FtS 6:2)	ng/L	4.5 U	4.4 U	13.9 U	4.5 U	4.8 U	13.5 U	1.7 J	4.4 U	13.3 U	NA	NA	NA	4.6 U	4.8 U	10.5 U		
8:2 Fluorotelomer sulfonic acid (FtS 8:2)	ng/L	4.5 U	4.4 U	3.81 U	4.5 U	4.8 U	3.7 U	4.5 U	4.4 U	3.63 U	NA	NA	NA	4.6 U	4.8 U	3.6 U		
9Cl-PF3ONS	ng/L	NA	4.4 U	1.3 U	NA	4.8 U	1.26 U	NA	4.4 U	1.24 U	NA	NA	NA	NA	4.8 U	1.23 U		
N-ethylperfluoro-1-octanesulfonamidoacetic acid	ng/L	4.5 U	4.4 U	1.91 U	4.5 U	4.8 U	1.86 U	4.5 U	4.4 U	1.83 U	NA	NA	NA	4.6 U	4.8 U	1.81 U		
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	ng/L	NA	4.4 U	3.35 U	NA	4.8 U	3.25 U	NA	4.4 U	3.19 U	NA	NA	NA	NA	4.8 U	3.16 U		
N-methylperfluoro-1-octanesulfonamidoacetic acid	ng/L	4.5 U	4.4 U	1.47 U	4.5 U	4.8 U	1.43 U	4.5 U	4.4 U	1.4 U	NA	NA	NA	4.6 U	4.8 U	1.39 U		
N-Methylperfluorooctane sulfonamide (MeFOSA)	ng/L	NA	4.4 U	2.94 U	NA	4.8 U	2.85 U	NA	4.4 U	2.8 U	NA	NA	NA	NA	4.8 U	2.78 U		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ng/L	NA	4.4 U	3.98 U	NA	4.8 U	3.86 U	NA	4.4 U	3.79 U	NA	NA	NA	NA	4.8 U	3.76 U		
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	ng/L	NA	4.4 U	0.929 U	NA	4.8 U	0.903 U	NA	4.4 U	0.887 U	NA	NA	NA	NA	4.8 U	0.879 U		
Perfluoro-3-methoxypropanoic acid (PFMPA)	ng/L	NA	4.4 U	0.465 U	NA	4.8 U	0.451 U	NA	4.4 U	0.443 U	NA	NA	NA	NA	4.8 U	0.44 U		
Perfluoro-4-methoxybutanoic acid (PFMBA)	ng/L	NA	4.4 U	0.688 U	NA	4.8 U	0.668 U	NA	4.4 U	0.656 U	NA	NA	NA	NA	4.8 U	0.651 U		
Perfluorobutanesulfonic Acid (PFBS)	ng/L	1.9 J	2.3 J	1.65 J	1.4 J	1.4 J	1.12 J	1.7 J	1.6 J	1.22 J	NA	NA	NA	1.6 J	2 J	1.49 J		
Perfluorobutanoic Acid (PFBA)	ng/L	3.5 J	4 J	0.613 U	5.6	7	4.49 J	6.1	8.8	6.56 J	NA	NA	NA	7.2	8.8	0.58 U		
Perfluorodecane Sulfonate (PFDS)	ng/L	4.5 U	4.4 U	2.45 U	4.5 U	4.8 U	2.38 U	4.5 U	4.4 U	2.34 U	NA	NA	NA	4.6 U	4.8 U	2.32 U		
Perfluorodecanoic Acid (PFDA)	ng/L	4.5 U	4.4 U	1.39 U	4.5 U	4.8 U	1.35 U	4.5 U	4.4 U	1.33 U	NA	NA	NA	4.6 U	4.8 U	1.32 U		
Perfluorododecane sulfonic acid (PFDoS)	ng/L	NA	4.4 U	1.73 U	NA	4.8 U	1.68 U	NA	4.4 U	1.65 U	NA	NA	NA	NA	4.8 U	1.64 U		
Perfluorododecanoic Acid (PFDoA)	ng/L	4.5 U	4.4 U	1.64 U	4.5 U	4.8 U	1.59 U	4.5 U	4.4 U	1.56 U	NA	NA	NA	4.6 U	4.8 U	1.55 U		
Perfluoroheptane sulfonate (PFHpS)	ng/L	4.5 U	4.4 U	1.69 U	4.5 U	4.8 U	1.64 U	4.5 U	4.4 U	1.61 U	NA	NA	NA	4.6 U	4.8 U	1.6 U		
Perfluoroheptanoic Acid (PFHpA)	ng/L	2.6 J	2.4 J	3.7 J	1.1 J	4.8 U	1.28 U	4.5 U	4.4 U	1.26 U	NA	NA	NA	6.5	4.5 J	5.33 PF-CCV-H		
Perfluorohexanesulfonic Acid (PFHxS)	ng/L	2.6 J	2.7 J	2.67 J	1.4 J	1.3 J	1.23 U	3.2 J	1.7 J	1.21 U	NA	NA	NA	2.7 J	2.3 J	1.55 J		
Perfluorohexanoic Acid (PFHxA)	ng/L	9.2 U	6.8	6.52	9.2 U	0.77 J	0.632 U	9.2 U	4.4 U	0.736 J	NA	NA	NA	9.3 U	5.4	4.71		
Perfluorononane sulfonic acid (PFNS)	ng/L	NA	4.4 U	1.6 U	NA	4.8 U	1.55 U	NA	4.4 U	1.52 U	NA	NA	NA	NA	4.8 U	1.51 U		
Perfluorononanoic Acid (PFNA)	ng/L	4.5 U	4.4 U	0.967 U	4.5 U	4.8 U	0.939 U	4.5 U	4.4 U	1.32 J	NA	NA	NA	1.7 J	4.8 U	0.95 J		
Perfluorooctanesulfonamide (PFOSA)	ng/L	4.5 U	4.4 U	1.64 U	4.5 U	4.8 U	1.59 U	4.5 U	4.4 U	1.56 U	NA	NA	NA	4.6 U	4.8 U	1.55 U		
Perfluorooctanesulfonic Acid (PFOS)	ng/L	9.2	9.9	10.2	6.4	5.1	5.4	5.8	6.3	2.21 J	NA	NA	NA	4.4	3.2 J	1.44 U	10	2.7
Perfluorooctanoic Acid (PFOA)	ng/L	6.1	7.7	4.11	6.7	7.8	3.95	6.3	10	4.15	NA	NA	NA	40	28	14.6	10	6.7
Perfluoropentane sulfonic acid (PFPeS)	ng/L	NA	1.7 J	1.88 J	NA	4.8 U	1.37 U	NA	4.4 U	1.35 U	NA	NA	NA	NA	0.95 J	1.34 U		
Perfluoropentanoic Acid (PFPeA)	ng/L	2.4 J	2.9 J	2.6 J	4.5 U	0.97 J	0.415 U	4.5 U	1.2 J	0.512 J	NA	NA	NA	3.5 J	3.2 J	0.404 U		
Perfluorotetradecanoic acid (PFTeDA)	ng/L	4.5 U	4.4 U	1.28 U	4.5 U	4.8 U	1.25 U	4.5 U	4.4 U	1.22 U	NA	NA	NA	4.6 U	4.8 U	1.21 U		
Perfluorotridecanoic acid (PFTrDA)	ng/L	4.5 U	4.4 U	1.38 U	4.5 U	4.8 U	1.34 U	4.5 U	4.4 U	1.31 U	NA	NA	NA	4.6 U	4.8 U	1.3 U		
Perfluoroundecanoic Acid (PFUnA)	ng/L	4.5 U	4.4 U	2.1 U	4.5 U	4.8 U	2.04 U	4.5 U	4.4 U	2 U	NA	NA	NA	4.6 U	4.8 U	1.99 U		
Total PFAS	ng/L	28.3	40.4	33.33	22.6	24.34	14.96	24.8	29.6	16.708	NA	NA	NA	67.6	58.35	28.63		
1,4-Dioxane	UG/L	0.85	0.75	0.8	0.35	0.22	0.31	0.34	0.34	0.33	0.18 B	0.62	0.33	0.3 B	0.34	0.4 *	1	0.35

Notes :

- U - Concentration not detected at specified limit
- J - Estimated Value
- NA - Not Analyzed
- B - Analyte was also detected in the associated method blank

* - Analysis performed out of hold time.
PF-CCV-H - CCV recovery above control limits
Concentrations in **Bold** exceed Guidance Value
2022 PFAS analysis by method 537m and 2023& 2024 PFAS analysis by method 1633

Table 3-3

2024 Field Duplicate Sample Comparisons
Analytical Results
Wellville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW17S-1024	DUP1-1024

Inorganic Compounds

Arsenic	0.01 U	0.01 U
Barium	0.049	0.048
Cadmium	0.005 U	0.005 U
Calcium	102	99.3
Chromium	0.01 U	0.01 U
Copper	0.02 U	0.02 U
Iron	0.14	0.14
Lead	0.005 U	0.005 U
Magnesium	73	71.2
Manganese	0.108	0.11
Nickel	0.014 J	0.013 J
Potassium	4.2	4.1
Selenium	0.01 U	0.008 J
Sodium	86.8	84.4
Zinc	0.017 J	0.016 J

Per- and Polyfluoralkyl Substances (PFAS)

11CL-PF3OUdS	0.00000243 U	0.00000247 U
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	0.0000167 U	0.000017 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	0.0000129 U	0.0000131 U
4,4,5,5,6,6,6-Heptafluorohexanoic acid (3:3 FTCA)	0.00000357 U	0.00000364 U
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	0.000000932 U	0.00000095 U
6:2 Fluorotelomer sulfonate (FtS 6:2)	0.0000105 U	0.0000108 U
8:2 Fluorotelomer sulfonic acid (FtS 8:2)	0.0000036 U	0.00000367 U
9CL-PF3ONS	0.00000123 U	0.00000125 U
N-ethylperfluoro-1-octanesulfonamidoacetic acid	0.00000181 U	0.00000185 U
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	0.00000316 U	0.00000323 U
N-methylperfluoro-1-octanesulfonamidoacetic acid	0.00000139 U	0.00000142 U
N-Methylperfluorooctane sulfonamide (MeFOSA)	0.00000278 U	0.00000283 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.00000376 U	0.00000383 U
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)	0.000000879 U	0.000000896 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.00000044 U	0.000000448 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.000000651 U	0.000000663 U
Perfluorobutanesulfonic Acid (PFBS)	0.00000149 J	0.00000168 J
Perfluorobutanoic Acid (PFBA)	0.00000058 U	0.000000591 U
Perfluorodecane Sulfonate (PFDS)	0.00000232 U	0.00000237 U
Perfluorodecanoic Acid (PFDA)	0.00000132 U	0.00000134 U
Perfluorododecane sulfonic acid (PFDoS)	0.00000164 U	0.00000167 U
Perfluorododecanoic Acid (PFDoA)	0.00000155 U	0.00000158 U
Perfluoroheptane sulfonate (PFHpS)	0.0000016 U	0.00000163 U
Perfluoroheptanoic Acid (PFHpA)	0.00000533 PF-CCV-H	0.00000533 PF-CCV-H
Perfluorohexanesulfonic Acid (PFHxS)	0.00000155 J	0.00000135 J
Perfluorohexanoic Acid (PFHxA)	0.00000471	0.00000521
Perfluorononane sulfonic acid (PFNS)	0.00000151 U	0.00000154 U
Perfluorononanoic Acid (PFNA)	0.00000095 J	0.000000932 U
Perfluorooctanesulfonamide (PFOSA)	0.00000155 U	0.00000158 U
Perfluorooctanesulfonic Acid (PFOS)	0.00000144 U	0.00000147 U
Perfluorooctanoic Acid (PFOA)	0.0000146	0.0000142
Perfluoropentane sulfonic acid (PFPeS)	0.00000134 U	0.00000136 U

Table 3-3

2024 Field Duplicate Sample Comparisons
Analytical Results
Wellville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	MW17S-1024	DUP1-1024

Per- and Polyfluoralkyl Substances (PFAS) (con't)

Perfluoropentanoic Acid (PFPeA)	0.000000404 U	0.00000312 J
Perfluorotetradecanoic acid (PFTeDA)	0.00000121 U	0.00000124 U
Perfluorotridecanoic acid (PFTrDA)	0.0000013 U	0.00000133 U
Perfluoroundecanoic Acid (PFUnA)	0.00000199 U	0.00000202 U

Semi Volatile Organic Compound

1,4-Dioxane	0.0004 *	0.00043 *

Volatile Organic Compounds

1,1,1-Trichloroethane	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U
1,1,2-Trichloroethane	0.001 U	0.001 U
1,1-Dichloroethane	0.0011	0.00098 J
1,1-Dichloroethene	0.001 U	0.001 U
1,2-Dibromoethane	0.001 U	0.001 U
1,2-Dichloroethane	0.001 U	0.001 U
1,2-Dichloropropane	0.001 U	0.001 U
2-Butanone (MEK)	0.005 U	0.005 U
2-Hexanone	0.005 U	0.005 U
4-Methyl-2-pentanone	0.005 U	0.005 U
Acetone	0.005 U	0.005 U
Benzene	0.001 U	0.001 U
Bromodichloromethane	0.001 U	0.001 U
Bromoform	0.001 U	0.001 U
Bromomethane	0.001 U	0.001 U
Carbon disulfide	0.001 U	0.001 U
Carbon tetrachloride	0.001 U	0.001 U
Chlorobenzene	0.001 U	0.001 U
Chloroethane	0.001 U	0.001 U
Chloroform	0.001 U	0.001 U
Chloromethane	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.03	0.031
cis-1,3-Dichloropropene	0.001 U	0.001 U
Dibromochloromethane	0.001 U	0.001 U
Dichloromethane (Methylene chloride)	0.001 U	0.001 U
Ethyl benzene	0.001 U	0.001 U
m&p-Xylene	0.002 U	0.002 U
o-Xylene	0.001 U	0.001 U
Styrene	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U
Toluene	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.00028 J	0.00027 J
trans-1,3-Dichloropropene	0.001 U	0.001 U
Trichloroethene	0.0087	0.0088
Vinyl chloride	0.001 U	0.001 U

Notes:

U - Concentration not detected at specified detection limit.

J - Estimated Value

* - Analysis performed out of hold time

Table 3-4

2024 Equipment Blank Analytical Results
Wellville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	EB1-1024

Inorganic Compounds

Arsenic	0.01 U
Barium	0.02 U
Cadmium	0.005 U
Calcium	1 U
Chromium	0.01 U
Copper	0.013 J
Iron	0.1 U
Lead	0.005 U
Magnesium	1 U
Manganese	0.01 U
Nickel	0.04 U
Potassium	2 U
Selenium	0.01 U
Sodium	1 U
Zinc	0.02 U

Volatile Organic Compounds

1,1,1-Trichloroethane	0.001 U
1,1,2,2-Tetrachloroethane	0.001 U
1,1,2-Trichloroethane	0.001 U
1,1-Dichloroethane	0.001 U
1,1-Dichloroethene	0.001 U
1,2-Dibromoethane	0.001 U
1,2-Dichloroethane	0.001 U
1,2-Dichloropropane	0.001 U
2-Butanone (MEK)	0.005 U
2-Hexanone	0.005 U
4-Methyl-2-pentanone	0.00032 J
Acetone	0.0068
Benzene	0.001 U
Bromodichloromethane	0.001 U
Bromoform	0.001 U
Bromomethane	0.001 U
Carbon disulfide	0.001 U
Carbon tetrachloride	0.001 U
Chlorobenzene	0.001 U
Chloroethane	0.001 U
Chloroform	0.001 U
Chloromethane	0.001 U
cis-1,2-Dichloroethene	0.001 U
cis-1,3-Dichloropropene	0.001 U
Dibromochloromethane	0.001 U
Dichloromethane (Methylene chloride)	0.001 U

Table 3-4

2024 Equipment Blank Analytical Results
Wellville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	EB1-1024

Volatile Organic Compounds (con't)

Ethyl benzene	0.001 U
m&p-Xylene	0.002 U
o-Xylene	0.001 U
Styrene	0.001 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
trans-1,2-Dichloroethene	0.001 U
trans-1,3-Dichloropropene	0.001 U
Trichloroethene	0.001 U
Vinyl chloride	0.001 U

Notes :

U - Concentration not detected at specified limit

J - Estimated Value

Table 4-1

Surface Water Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	SWS-1 5/18/2022	SWS-1 5/1/2023	SWS-1 4/17/2024	Class C Standard

Field Parameters

Dissolved Oxygen		10.23	7.65	Not < 5
Field pH (std. units)	7.75	7.67	7.26	
ORP (mV)	175.6	39.6	122.3	
Specific Conductivity (us/cm)	628.1	263.4	202.3	
Temperature (deg. C)	13	7.5	9.9	
Turbidity (NTU)	2.08	15.7	10.7	

Inorganic Compounds

Arsenic	0.01 U	0.01 U	0.01 U	
Barium	0.039	0.024	0.023	
Cadmium	0.005 U	0.005 U	0.005 U	
Calcium	58.6	26.2	25.4	
Chromium	0.01 U	0.01 U	0.01 U	
Copper	0.02 U	0.02 U	0.02 U	
Iron	0.29	0.79	0.7	
Lead	0.05 U	0.005 U	0.005 U	0.008
Magnesium	17.9	8.9	8.8	
Manganese	0.184	0.045	0.037	
Nickel	0.04 U	0.04 U	0.04 U	0.0082
Potassium	2.4	2 U	2.4	
Selenium	0.01 U	0.01 U	0.01 U	
Sodium	55.4	21.2	11.9	
Zinc	0.034	0.02 U	0.014 J	

Volatile Organic Compounds

1,1,1-Trichloroethane	0.005 U	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	0.005 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	0.005 U	0.001 U	0.001 U	
1,1-Dichloroethane	0.005 U	0.001 U	0.001 U	
1,1-Dichloroethene	0.005 U	0.001 U	0.001 U	
1,2-Dibromoethane	0.005 U	0.001 U	0.001 U	
1,2-Dichloroethane	0.005 U	0.001 U	0.001 U	
1,2-Dichloropropane	0.005 U	0.001 U	0.001 U	
2-Butanone (MEK)	0.01 U	0.005 U	0.005 U	
2-Hexanone	0.01 U	0.005 U	0.005 U	
4-Methyl-2-pentanone	0.01 U	0.005 U	0.005 U	
Acetone	0.01 U	0.005 U	0.005 U	
Benzene	0.005 U	0.001 U	0.001 U	0.01
Bromodichloromethane	0.005 U	0.001 U	0.001 U	
Bromoform	0.005 U	0.001 U	0.001 U	

Table 4-1

Surface Water Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	SWS-1 5/18/2022	SWS-1 5/1/2023	SWS-1 4/17/2024	Class C Standard

Volatile Organic Compounds (con't)

Bromomethane	0.005 U	0.001 U	0.001 U	
Carbon disulfide	0.01 U	0.001 U	0.001 U	
Carbon tetrachloride	0.005 U	0.001 U	0.001 U	
Chlorobenzene	0.005 U	0.001 U	0.001 U	0.005
Chloroethane	0.005 U	0.001 U	0.001 U	
Chloroform	0.005 U	0.001 U	0.001 U	
Chloromethane	0.005 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	0.005 U	0.001 U	0.0015	
cis-1,3-Dichloropropene	0.005 U	0.001 U	0.001 U	
Dibromochloromethane	0.005 U	0.001 U	0.001 U	
Dichloromethane (Methylene chloride)	0.005 U	0.001 U	0.001 U	0.2
Ethyl benzene	0.005 U	0.001 U	0.001 U	
m&p-Xylene	0.005 U	0.002 U	0.002 U	
o-Xylene	0.005 U	0.001 U	0.001 U	
Styrene	0.005 U	0.001 U	0.001 U	
Tetrachloroethene	0.005 U	0.001 U	0.001 U	
Toluene	0.005 U	0.001 U	0.001 U	6
trans-1,2-Dichloroethene	0.005 U	0.001 U	0.001 U	
trans-1,3-Dichloropropene	0.005 U	0.001 U	0.001 U	
Trichloroethene	0.005 U	0.001 U	0.00051 J	0.04
Vinyl chloride	0.005 U	0.001 U	0.001 U	

General Chemistry

Alkalinity	190	98.6	96.7	
Ammonia Nitrogen	0.05 U	0.05 U	0.05 U	2
Biochemical Oxygen Demand	2 U	2 U	2 U	
Bromide	1 U	1 U	1 U	
Chemical Oxygen Demand	30.7	40.2	29.4	
Chloride	110	35.5	17.3	
Color (True) (C.U.)	35	100	37	
Nitrate Nitrogen	1 U	1 U	1 U	
pH of Color Analysis	7.74	7.79	7.58	
Sulfate	2.1	2 U	2 U	
Total Dissolved Solids	388	182	146	500
Total Kjeldahl Nitrogen	0.59	1.01	0.62	
Total Organic Carbon (TOC)	8.7	11.2	6.8	
Total Phenolics	0.005 U	0.005 U	0.005 U	

Notes:

Class C Standard - NYSDEC Class C Surface Water Standard

Concentrations are within Class C Standards

U - Concentration not detected at specified detection limit

J - Estimated Value

Table 5-1

Leachate Sump and Manhole Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	LS-1 10/20/2022	LS-1 10/25/2023	LS-1 10/15/2024	MH-32 10/24/2022	MH-32 10/25/2023	MH-32 10/15/2024	MH-33 10/24/2022	MH-33 10/25/2023	MH-33 10/15/2024	Class GA Standard	Guidance Value GA

Field Parameters

Field pH (std. units)	7.72	7.46	7.45	7.56	6.94	6.79	7.56	6.82	7.61	6.5 - 8.5	
ORP (mV)	69	133.8	-4.7	-0.5	121.1	72.6	6.6	130.8	43.1		
Specific Conductivity (us/cm)	827	971	664	609.7	881	534.9	658	520.1	325.3		
Temperature (deg. C)	10.6	14.2	13.3	14	14.4	11.8	12.9	11.7	12.2		
Turbidity (NTU)	5.08	44	12.5	5.37	93.9	40.8	10.4	4.1	16.1	5	

Inorganic Compounds

Arsenic	0.01 U	0.006 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025	
Barium	0.094	0.117	0.067	0.1	0.162	0.086	0.049	0.042	0.031	1	
Cadmium	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005	
Calcium	119	126	94.5	105	138	90.1	96.6	88.9	55.5		
Chromium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.003 J	0.01 U	0.01 U	0.01 U	0.05	
Copper	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.009 J	0.02 U	0.02 U	0.005 J	0.2	
Iron	0.73	5.22	1.38	0.88	8.52	3	1.46	0.6	1.47	0.3	
Lead	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.025	
Magnesium	32.9	37.4	25.3	19.6	19	16.8	22	19.4	13.4		35
Manganese	0.816	1.61	0.919	0.405	1.93	0.85	0.567	0.474	0.217	0.3	
Nickel	0.04 U	0.006 J	0.013 J	0.04 U	0.004 J	0.02 J	0.04 U	0.04 U	0.012 J	0.1	
Potassium	4.7	5.2	3.6	5.6	12	3	2 U	1.9 J	2.1		
Selenium	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.007 J	0.01 U	0.01	
Sodium	30.3	48.1	18	7.4	19.8	4.3 B	6.8	7.6	3.2 B	20	
Zinc	0.02 U	0.021	0.02 U	0.02 U	0.025	0.025	0.02 U	0.02 U	0.004 J		2

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane			0.001 U			0.005 U			0.001 U	0.005	
1,1,1-Trichloroethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
1,1,2-Trichloroethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001	
1,1-Dichloroethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
1,2,3-Trichloropropane			0.001 U			0.005 U			0.001 U	0.00004	
1,2-Dibromo-3-chloropropane			0.002 U			0.01 U			0.002 U	0.00004	
1,2-Dibromoethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
1,2-Dichlorobenzene			0.001 U			0.005 U			0.001 U	0.003	
1,2-Dichloroethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.0006	
1,2-Dichloropropane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001	
1,4-Dichlorobenzene			0.001 U			0.0013 J			0.00023 J	0.003	
2-Butanone (MEK)	0.005 U	0.005 U	0.005 U	0.013 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U	0.005	0.05
2-Hexanone	0.005 U	0.005 U	0.005 U	0.013 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U		
4-Methyl-2-pentanone	0.005 U	0.005 U	0.005 U	0.013 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U		

Table 5-1

Leachate Sump and Manhole Analytical Results (Last 3 Years)
Wellsville/Andover Landfill
Wellsville, New York
(mg/L except where noted)

Parameter	LS-1 10/20/2022	LS-1 10/25/2023	LS-1 10/15/2024	MH-32 10/24/2022	MH-32 10/25/2023	MH-32 10/15/2024	MH-33 10/24/2022	MH-33 10/25/2023	MH-33 10/15/2024	Class GA Standard	Guidance Value GA

Volatile Organic Compounds (con't)

Acetone	0.005 U	0.005 U	0.005 U	0.013 U	0.05 U	0.025 U	0.005 U	0.005 U	0.005 U		0.05
Acrylonitrile			0.01 U			0.05 U			0.01 U	0.005	
Benzene	0.001 U	0.001 U	0.001 U	0.0025 U	0.0026 J	0.005 U	0.001 U	0.001 U	0.001 U	0.001	
Bromochloromethane			0.001 U			0.005 U			0.001 U	0.005	
Bromodichloromethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U		0.05
Bromoform	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U		0.05
Bromomethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Carbon disulfide	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U		0.06
Carbon tetrachloride	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Chlorobenzene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Chloroethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Chloroform	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.007	
Chloromethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
cis-1,2-Dichloroethene	0.0026	0.0032	0.0039	0.26	3.6 D	0.75	0.001	0.18	0.022	0.005	
cis-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.0004	
Dibromochloromethane	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	0.05
Dibromomethane			0.001 U			0.005 U			0.001 U	0.005	
Dichloromethane (Methylene chloride)	0.001 U	0.001 U	0.001 U	0.016	0.088	0.026	0.001 U	0.001 U	0.001 U		
Ethyl benzene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Iodomethane			0.005 U			0.025 U			0.005 U	0.005	
m&p-Xylene	0.002 U	0.002 U	0.002 U	0.005 U	0.02 U	0.01 U	0.002 U	0.002 U	0.002 U	0.005	
o-Xylene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Styrene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005	
Toluene	0.001 U	0.001 U	0.001 U	0.0025 U	0.0075 J	0.0011 J	0.001 U	0.001 U	0.001 U	0.005	
trans-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.0025 U	0.0035 J	0.0021 J	0.001 U	0.001 U	0.001 U	0.005	
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.0025 U	0.01 U	0.005 U	0.001 U	0.001 U	0.001 U	0.0004	
trans-1,4-Dichloro-2-butene			0.001 U			0.005 U			0.001 U	0.005	
Trichloroethene	0.001 U	0.0011	0.00028 J	0.14	1.9	0.2	0.001 U	0.17	0.0027	0.005	
Trichlorofluoromethane			0.001 U			0.005 U			0.001 U	0.005	
Vinyl acetate			0.002 U			0.01 U			0.002 U	0.005	
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.0028	0.04	0.0026 J	0.001 U	0.00052 J	0.0013	0.002	

General Chemistry

Nitrate Nitrogen				1 U	1 U	0.5 J	1 U	0.3 J	0.4 J	10	
Total Dissolved Solids				405	533	362	360	331	229	500	

Notes:

Class GA Standard - NYSDEC Class GA Groundwater Standard
Concentrations in **bold** exceed Class GA Standards.
B - Analyte also detected in method blank

U - Concentration not detected at specified detection limit
J - Estimated value
D - Concentration is a result of a dilution see lab report for further explanation.

Table 6-1

**Fall 2024 Air Monitoring Results
Wellsville/Andover Landfill
Wellsville, New York**

Monitoring Point	Date	PID (ppm)	O ₂ %	LEL %
V-1	10/16/2024	0.0	20.9	0
V-2	10/17/2024	0.0	20.9	0
V-3	10/16/2024	0.0	20.9	0
V-4	10/16/2024	2.5	20.9	0
V-5	10/17/2024	0.0	20.9	0
V-6	10/16/2024	2.6	20.9	9
V-7	10/16/2024	0.0	20.9	0
V-8	10/16/2024	0.0	20.9	0
V-9	10/16/2024	14.3	20.9	19
V-10	10/17/2024	0.0	20.9	0
V-11	10/17/2024	2.6	20.9	14
V-12	10/16/2024	0.0	20.9	0
V-13	10/16/2024	0.2	20.9	0
V-14	10/16/2024	0.0	20.9	0
V-15	10/16/2024	0.0	20.9	0
V-16	10/16/2024	0.0	20.9	0
V-17	10/17/2024	0.3	20.9	0
V-18	10/17/2024	1.4	20.9	10
V-19	10/16/2024	0.0	20.9	0
V-20	10/16/2024	0.0	20.9	0
V-21	10/17/2024	0.0	20.9	0
L-16	10/17/2024	0.5	20.8	10
L-17	10/17/2024	0.0	20.9	0
L-19	10/17/2024	0.7	17.4	>99
L-21	10/17/2024	1.4	18.4	>99
L-23	10/17/2024	12.7	18.8	58
L-25	10/17/2024	5.7	0.0	>99
L-27	10/17/2024	2.8	20.0	58
L-29	10/17/2024	18.4	20.2	47
L-31	10/17/2024	0.8	20.9	0
MH-6	10/16/2024	0.2	20.9	0
MH-7	10/16/2024	1.8	20.9	0
MH-8	10/16/2024	0.0	19.4	0
MH-9	10/16/2024	0.0	20.4	0
MH-10	10/16/2024	0.7	19.4	4
MH-11	10/16/2024	0.5	19.9	0
MH-12	10/16/2024	0.0	20.9	0
MH-13	10/16/2024	2.2	20.9	0
MH-32	10/16/2024	0.8	20.9	0
MH-33	10/17/2024	0.0	20.9	0
Upwind	10/16/2024	0.0	20.9	0
Downwind-1	10/16/2024	0.0	20.9	0
Downwind-2	10/16/2024	0.0	20.9	0
Downwind-3	10/16/2024	0.0	20.9	0

Notes:

Background PID: 0.0 - 0.1 ppm

Background LEL: 0 %

Background O₂: 20.9 %

Weather: 10/16 43° F Mostly Cloudy/sprinkles 10/17 46° F Sunny

Winds: 10/16 0-10 mph from North 10/17 0-5 mph from North

Meters: Q-RAE3 4 Gas & Mini-Rae PID

Monitored By: J. Palmer

Table 7-1

**Spring and Fall 2024
Residential Water Supply Contact and Sampling Summary
Wellsville/Andover Landfill**

Name	Mailing Address	Physical Address of Sampling Location	Phone No.	Location ID	Water Source	Telephone Contact		Sampling Approved	Sampling Location	Sample Collection	
						Date	Time			Date	Time
Mr. John Carl	3987 Snyder Rd Wellsville, NY 14895	3987 Snyder Rd Wellsville, NY 14895	585-610-8581	WAL-1	Well ³	10/14/2024	850	Yes	Hose bib	10/15/2024	1045
Mr. Phil Rosini	72 Havenshire Rd Rochester, NY 14625	3899 Snyder Road Wellsville, NY	(C) 585-754-6328 (H) 585-671-3831	WAL-2	Well ^{1,2} 150 ft deep	10/31/2024	916	Yes	Kitchen Sink	11/14/2024	1310
Unknown ⁴	4011 Duffy Hollow Rd Wellsville, NY 14895	4011 Duffy Hollow Rd Wellsville, NY 14895		WAL-5	Spring ³	Vacant - No Contact ⁴			Kitchen Sink	NA	NA
Mrs. Barbara LaDue	3914 Snyder Rd. Wellsville, NY 14895	3914 Snyder Rd. Wellsville, NY 14895	(H) 585-593-7200 (C) 585-593-8524	WAL-19	Spring ²	4/17/2024	833	Yes	Post - Kitchen Sink	4/17/2024	1035
									Inter - Between Filters		1040
									Pre - Before Filters		1050
						10/14/2024	848	Yes	Post - Kitchen Sink	10/15/2024	940
									Inter - Between Filters		950
									Pre - Before Filters		1000
Mr. Daniel LaDue Jr.	3914 Snyder Rd. Wellsville, NY 14895	3914 Snyder Rd. Wellsville, NY 14895	585-590-6738	WAL-22	Well ⁵	6/6/2024	940	Yes	Pressure tank spigot	6/18/2024	940

Notes:

¹ Water source information from *Remedial Investigation Report, Wellsville-Andover Landfill Site*, November 1993, prepared by Ecology & Environment

² Water source information from *Phase II State Superfund Investigation Report, Wellsville-Andover Landfill Site*, December 1986, prepared by Malcolm Pirnie

³ Water Source from previous land owner

⁴ Unknown owner, property appears vacant

⁵ Well installed in 2023 to a depth of 230 ft as reported on NYSDEC Well Completion Report

NA - Not applicable

Table 7-2

2024 Residential Water Supply Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	WAL1 10/15/2024	WAL2 11/14/2024	WAL19Pre 4/17/2024	WAL19Inter 4/17/2024	WAL19Post 4/17/2024	WAL19Pre 10/15/2024	WAL19Inter 10/15/2024	WAL19Post 10/15/2024	WAL22 6/18/2024	Class GA Standard	NYSDOH MCL
Inorganic Compounds											
Arsenic	0.0016	0.01 U							0.001 J	0.025	0.01
Barium	0.0701	0.033 B							0.0337	1	2
Cadmium	0.001 U	0.005 U							0.001 U	0.005	0.005
Calcium	41.3	51.7							14.9		
Chromium	0.01 U	0.01 U							0.01 U	0.05	0.1
Copper	0.0056	0.005 J							0.003 J	0.2	1.3
Iron	0.1 U	0.87							0.17	0.3	0.3
Lead	0.001 U	0.005 U							0.001 U	0.025	0.015
Magnesium	14.5	17.8							4.4		
Manganese	0.119	0.934							0.008 J	0.3	0.3
Nickel	0.001 U	0.012 J							0.0013	0.1	0.1
Potassium	1.6 J	2 J							1.9 J		
Selenium	0.002 U	0.01 U							0.002 U	0.01	0.05
Sodium	8.8	38.4							98.6	20	
Zinc	0.022	0.013 J							0.02 U		5
Per- and Polyfluoralkyl Substances (PFAS)											
11CI-Pf3OUdS									0.000002 U		
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)									0.000002 U		
9CI-PF3ONS									0.000002 U		
N-ethylperfluoro-1-octanesulfonamidoacetic acid									0.000002 U		
N-methylperfluoro-1-octanesulfonamidoacetic acid									0.000002 U		
Perfluorobutanesulfonic Acid (PFBS)									0.000002 U		
Perfluorodecanoic Acid (PFDA)									0.000002 U		
Perfluorododecanoic Acid (PFDoA)									0.000002 U		
Perfluoroheptanoic Acid (PFHpA)									0.000002 U		
Perfluorohexanesulfonic Acid (PFHxS)									0.000002 U		
Perfluorohexanoic Acid (PFHxA)									0.000002 U		
Perfluorononanoic Acid (PFNA)									0.000002 U		
Perfluorooctanesulfonic Acid (PFOS)									0.000002 U		0.00001
Perfluorooctanoic Acid (PFOA)									0.000002 U		0.00001
Perfluorotetradecanoic acid (PFTeDA)									0.000002 U		
Perfluorotridecanoic acid (PFTrDA)									0.000002 U		
Perfluoroundecanoic Acid (PFUnA)									0.000002 U		
1,4-Dioxane									0.00004 U		0.001
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,1,2,2-Tetrachloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,1,2-Trichloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001	0.005
1,1-Dichloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,1-Dichloroethene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,2,3-Trichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,2,3-Trichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00004	0.005
1,2,4-Trichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,2,4-Trimethylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,2-Dichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.003	0.005
1,2-Dichloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0006	0.005
1,2-Dichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001	0.005

Table 7-2

2024 Residential Water Supply Analytical Results
Wellsville/Andover Landfill
Wellsville, New York
(mg/L)

Parameter	WAL1 10/15/2024	WAL2 11/14/2024	WAL19Pre 4/17/2024	WAL19Inter 4/17/2024	WAL19Post 4/17/2024	WAL19Pre 10/15/2024	WAL19Inter 10/15/2024	WAL19Post 10/15/2024	WAL22 6/18/2024	Class GA Standard	NYSDOH MCL
Volatile Organic Compounds (con't)											
1,3,5-Trimethylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,3-Dichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.003	0.005
1,3-Dichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
1,4-Dichlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.003	0.005
2,2-Dichloropropane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
2-Chlorotoluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
4-Chlorotoluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Benzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001	0.005
Bromobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Bromochloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Bromodichloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.08
Bromoform	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.08
Bromomethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00035 J	0.005	0.005
Carbon tetrachloride	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Chlorobenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Chloroethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 UJ	0.005	0.005
Chloroform	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.007	0.08
Chloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
cis-1,2-Dichloroethene	0.0005 U		0.0016	0.0005 U	0.0005 U	0.0015	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
cis-1,3-Dichloropropene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0004	0.005
Dibromochloromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.08
Dibromomethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Dichlorodifluoromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Dichloromethane (Methylene chloride)	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U		0.005
Ethyl benzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Isopropylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
m&p-Xylene	0.001 U		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005	0.005
Methyl tert-butyl ether (MTBE)	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.01
n-Butylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
n-Propylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
o-Xylene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
p-Isopropyltoluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
sec-Butylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Styrene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
tert-Butylbenzene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Tetrachloroethene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Toluene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
trans-1,2-Dichloroethene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
trans-1,3-Dichloropropene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0004	0.005
Trichloroethene	0.0005 U		0.0023	0.0005 U	0.0005 U	0.0017	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Trichlorofluoromethane	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.005
Vinyl chloride	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.002	0.002
Hexachlorobutadiene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005	0.005
Naphthalene	0.0005 U		0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.005	0.05

Notes:
Concentrations in **bold** exceed Class GA Standards and or NYSDOH MCL
U - Concentrations not detected at specified limit

J - Estimated value
B - Analyte also found in method blank.

Table 8-1

**2024 Leachate Collection System Cleaning Summary
Wellsville-Andover Landfill Site**

Lateral Clean-Out	Associated Manhole	Date Cleaned	Approximate Length Jetted (ft)	Approximate Gallons Jetted	Manhole Observations During Lateral Jetting - distances and volumes are approximate
L-16	Leachate Sump	5/14/2024	475	30	Clean water entering into sump, could hear jetter hitting something hard close to sump (Possibly pipe fitting). No resistance when advancing jetter (475 ft.).
L-17	MH-6	6/4/2024	500	55	Standing water in manhole prior to jetting. Water is within 1.5" of top of inlet pipe. Muddy water flowing into manhole during jetting. (500 ft.)
L-19	MH-7	6/4/2024	500	50	Scant standing water in manhole prior to jetting. Muddy water flowing into manhole during jetting. (500 ft.)
L-21	MH-8	6/4/2024	585	50	2-3" of standing water in manhole prior to jetting. Turbid water flow into manhole during jetting. (585 ft.)
L-23	MH-9	6/4/2024	585	50	Scant standing water in manhole prior to jetting. Small amount of rusty water flowing into manhole with 50 gallon input from jetting. (585 ft.)
L-25	MH-10	6/4/2024	595	30	Scant standing water in manhole prior to jetting. Slight water flow into manhole appearing clear to slightly cloudy. (595 ft.)
L-27	MH-11	6/4/2024	300	115	No flow into manhole while jetting. Refusal at 300 ft. (Jetter hose difficult to remove from pipe at first) Added an additional 100 gallon slug of water and observed some water flow into manhole.
L-29	MH-12				Not jetted - See note 3
L-31	MH-13	5/14/2024 6/4/2024	500 600	100 290	5/14/2024 Jetter refusal at 500 ft. with no water entering manhole during or after jetting. (Clay material on jetter hose at removal) 6/4/2024 Returned and advanced to 600 ft. with no water flow into manhole. An additional 240 gallon slug of water introduced while jetting with no flow into manhole.
Pump Station Inlet Manhole		6/4/2024	NA	NA	Minimal accumulated sediment present, cleaning not necessary.
Manhole Trunk Line		6/4/2024	Entire length of trunk line		Water jet trunk line: MH-6 to LS-1; then from MH-6 towards L-17 (100ft.), MH-6 to MH-7; then MH-7 towards L-19 (150 ft.); then from MH-7 to MH-8; from MH-8 back towards MH-7; MH-8 towards L-21 (65 ft.); then MH-8 to MH-9; then MH-9 back to MH-8 (25 ft.); from MH-9 towards L-23 (150 ft.); then from MH-9 to MH-10; MH-10 back to MH-9 (25 ft.); then towards L-25 (150 ft.); MH-10 to MH-11; MH-11 towards L-27 (220 ft.); then MH-11 to MH-12; No jetting from M-12 towards L-29 due to previously recognized obstruction. MH-12 to MH-13; MH-13 towards L-31 (300 ft.).

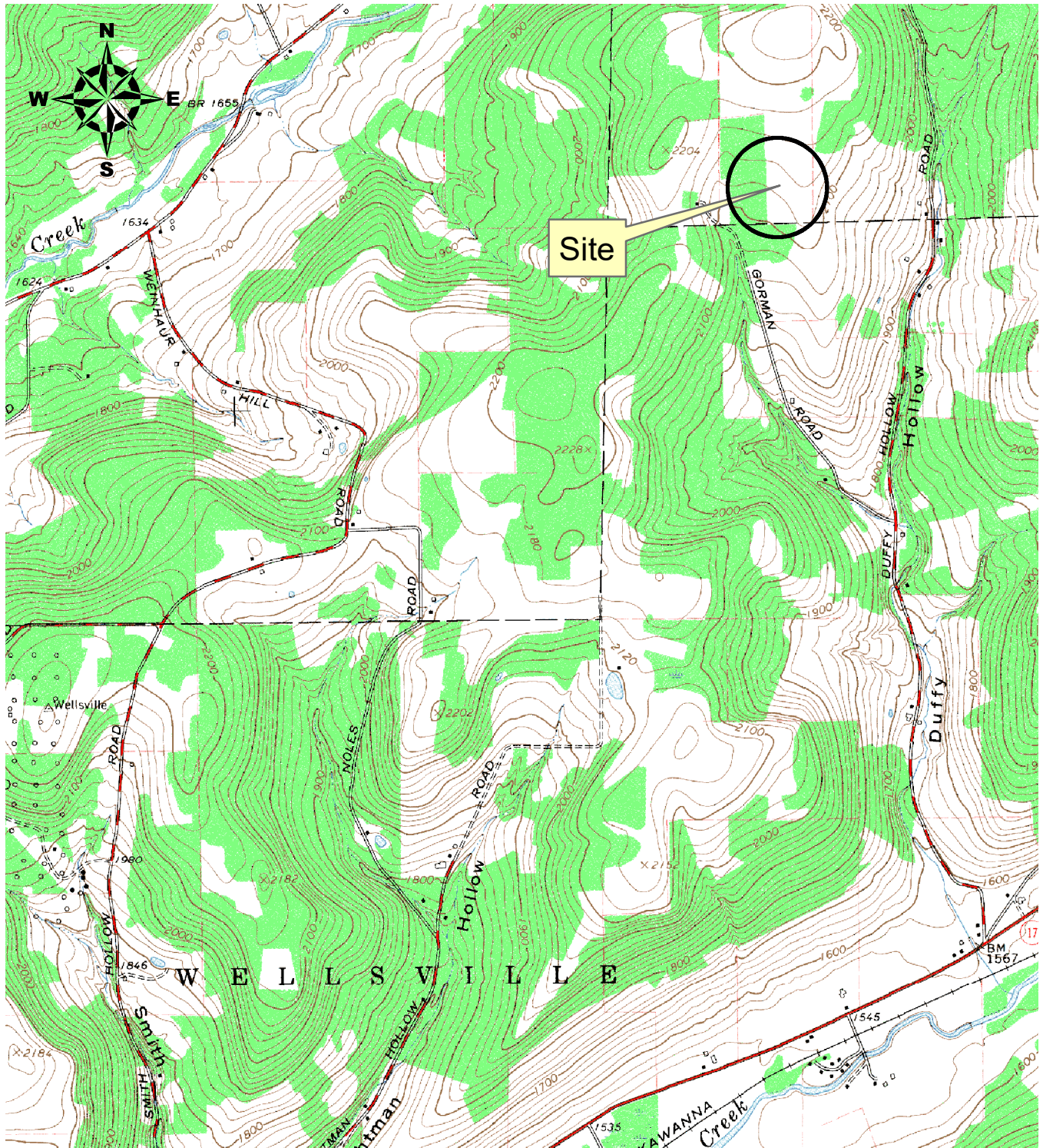
Notes:

- 1) Laterals and clean-outs listed in order from South to North
- 2) Associated manhole means the manhole located at the downstream end of the lateral (i.e. Leachate Sump is downstream end of lateral with clean-out L-16 at upstream end).
- 3) Lateral L-29 to MH-12 previously determined not continuous and is not intended to be water jetted.

Figures

WELLSVILLE-ANDOVER LANDFILL SITE LOCATION (902004)

Snyder Road Wellsville, New York



SOURCE: WELLSVILLE NORTH, USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, DATED 1965.
NOTE: GORMAN ROAD IS NOW SNYDER ROAD.

2,000 1,000 0 2,000
Feet
1 inch = 2,000 feet

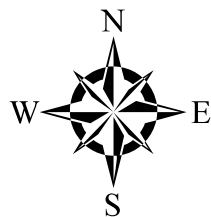


ON-SITE GEOLOGICAL SERVICES, D.P.C.
72 Railroad Avenue Wellsville, NY14895

FIGURE NO.	1
PROJECT	WAL
DOCUMENT	Annual Report
FILE NO.	Site_Loc.mxd

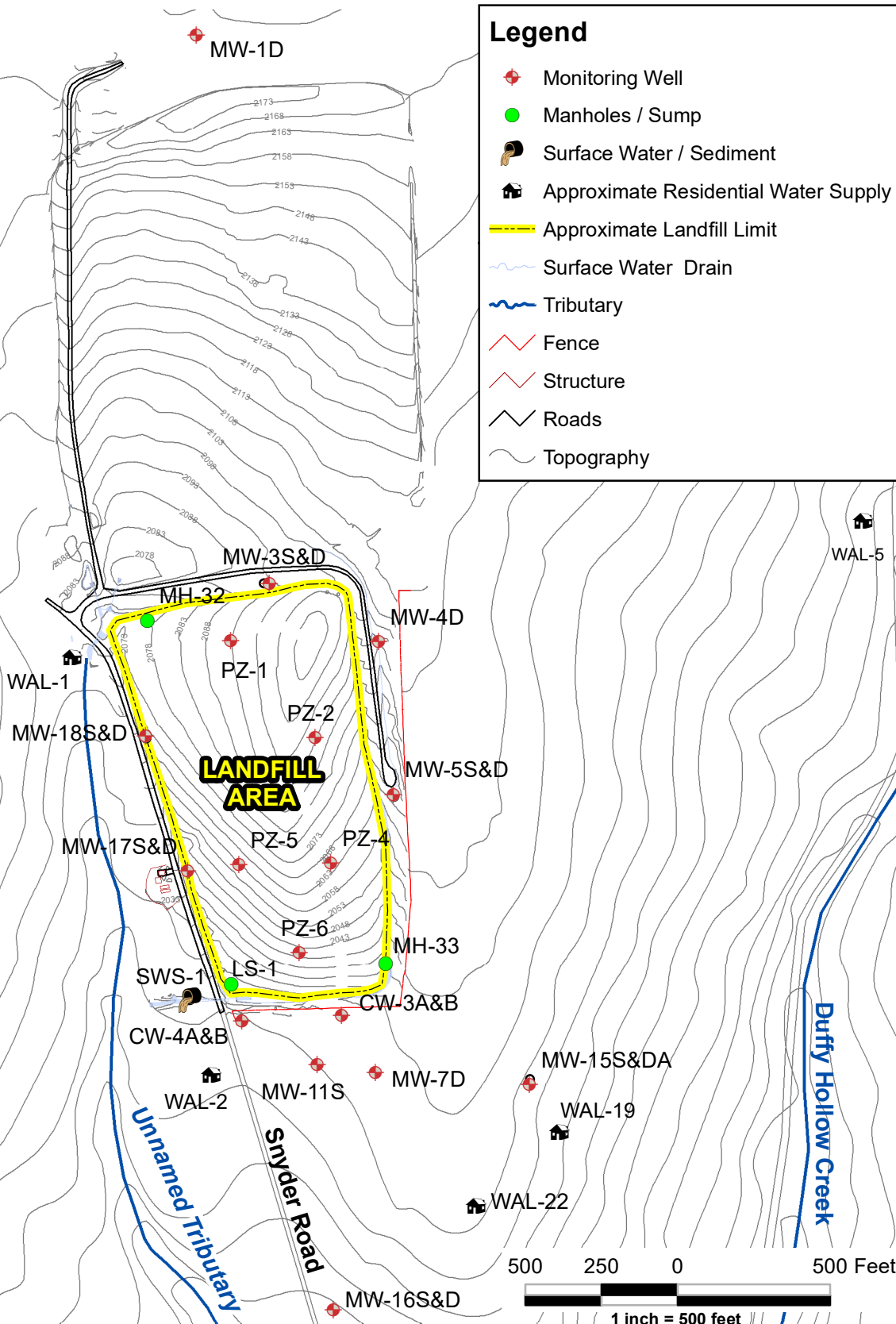
2024 MONITORING LOCATIONS

Wellsville-Andover Landfill Snyder Road Wellsville, New York



Legend

- ◆ Monitoring Well
- Manholes / Sump
- Surface Water / Sediment
- Approximate Residential Water Supply
- Approximate Landfill Limit
- ~ Surface Water Drain
- ~ Tributary
- / Fence
- / Structure
- / Roads
- ~ Topography



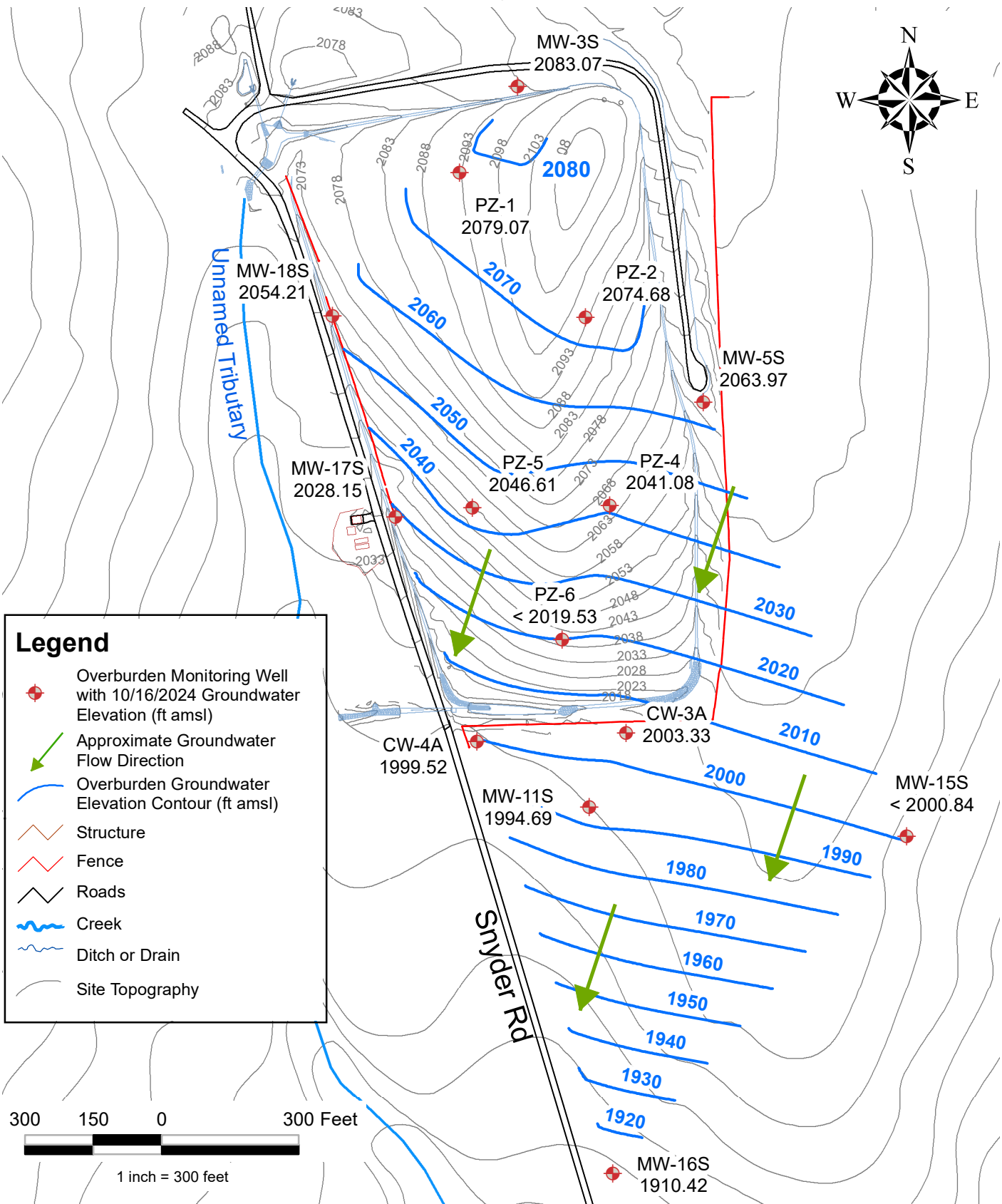
ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	2
PROJECT	WAL
DOCUMENT	2024 Annual Report
FILE NO.	Fig 2.mxd

OCTOBER 16, 2024 OVERBURDEN MONITORING WELL POTENTIOMETRIC MAP

Wellsville-Andover Landfill Snyder Road Wellsville, New York



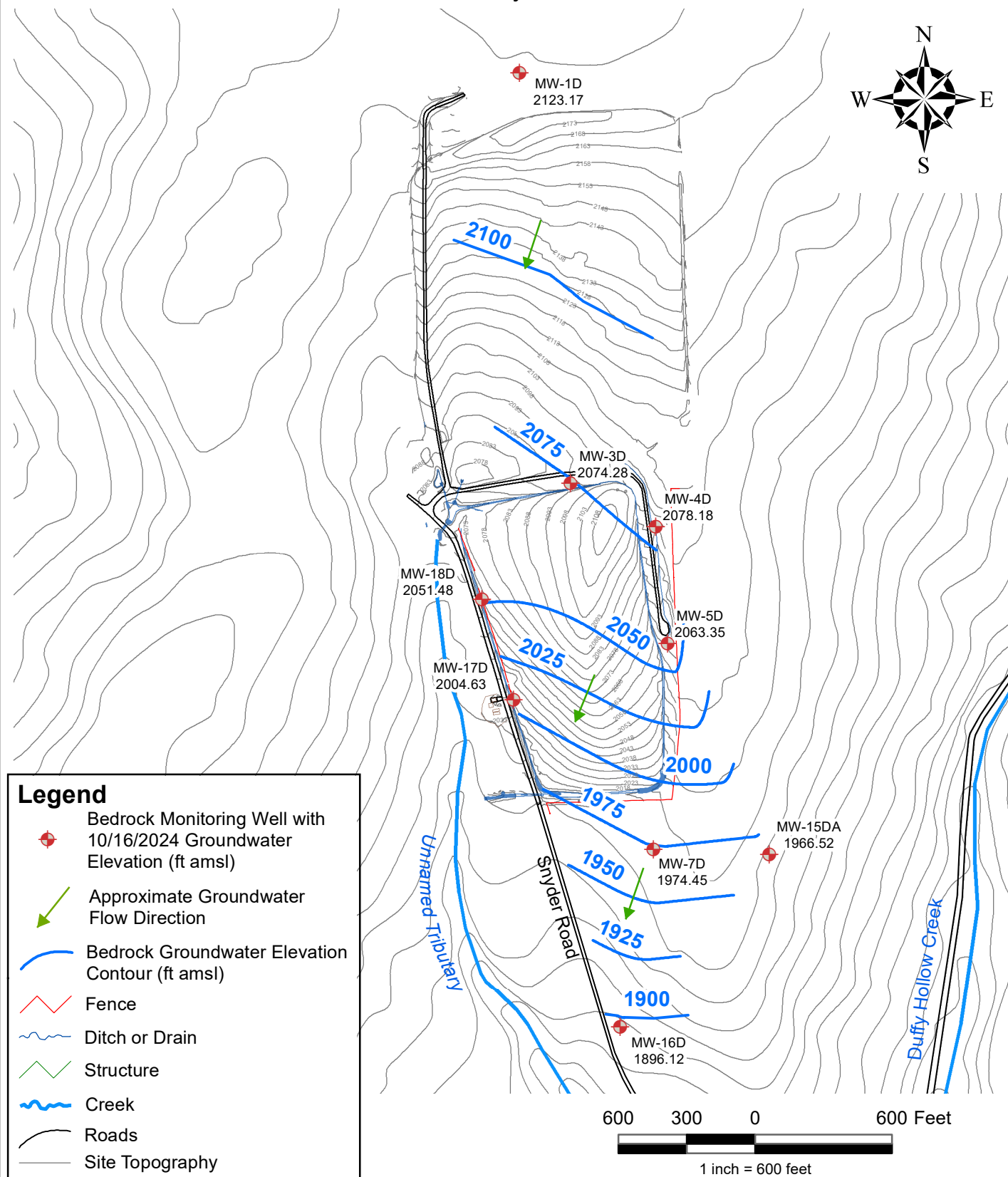
ON-SITE GEOLOGICAL SERVICES, D.P.C

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	3
PROJECT	WAL
DOCUMENT	2024 Annual Report
FILE NO	Fig 3 1024 OB.mxd

OCTOBER 16, 2024 BEDROCK MONITORING WELL POTENTIOMETRIC MAP

Wellsville-Andover Landfill Snyder Road Wellsville, New York



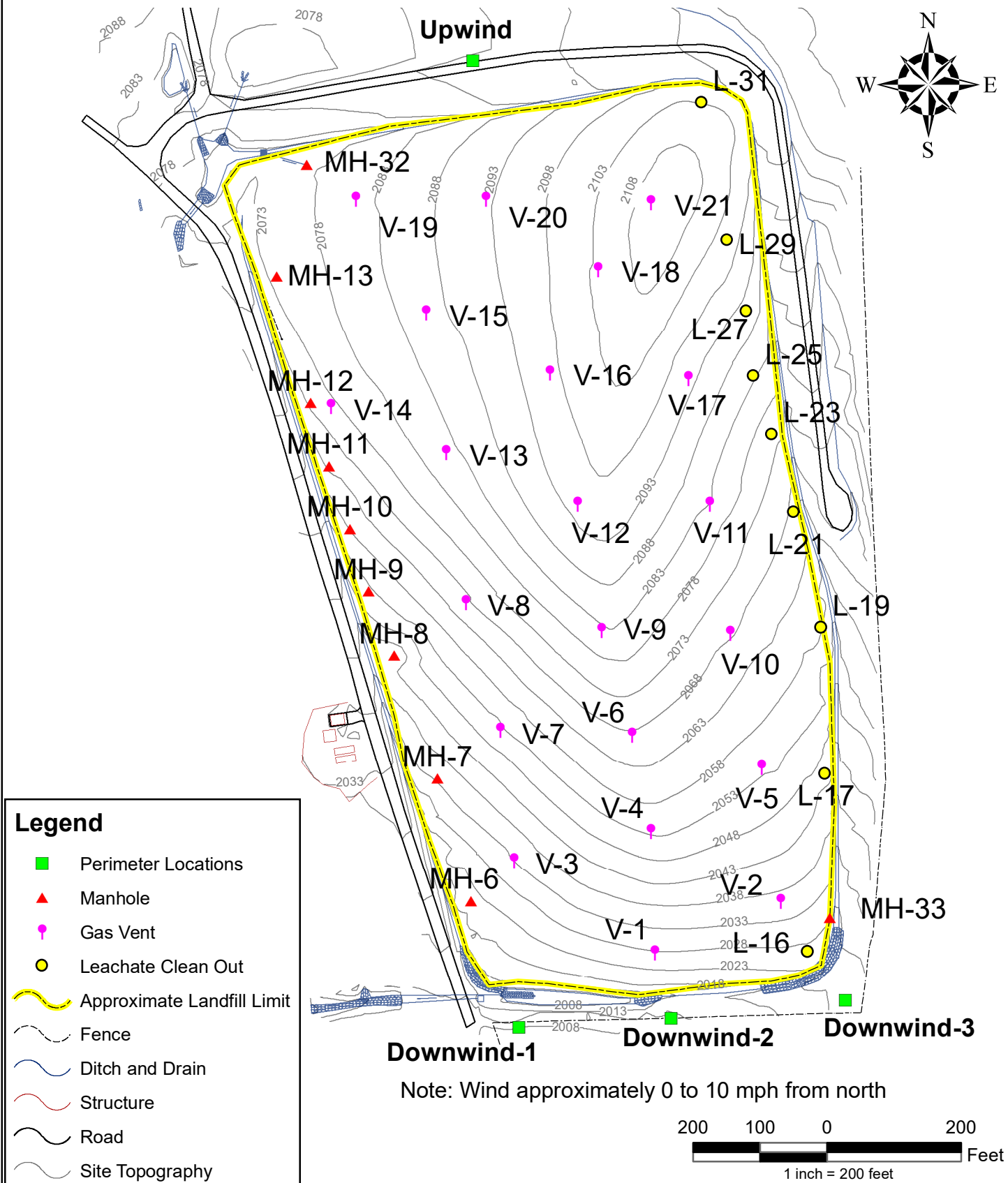
ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	4
PROJECT	WAL
DOCUMENT	2024 Annual Report
FILE NO	Fig 4 1024 BR.mxd

OCTOBER 16, 2024 AIR MONITORING LOCATIONS

Wellsville-Andover Landfill Snyder Road Wellsville, New York



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	5
PROJECT	WAL
DOCUMENT	2024 ANNUAL RPT
FILE NO.	FIG 5.MXD

Appendix A

NYSDEC Site Management Periodic Review Report Certification



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1	
Site No.	902004		
Site Name Wellsville-Andover Landfill			
Site Address: Snyder Hill Road Zip Code: 14895			
City/Town: Wellsville			
County: Allegany			
Site Acreage: 19.000			
Reporting Period: February 15, 2024 to February 15, 2025			
		YES	NO
1.	Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.			
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5.	Is the site currently undergoing development?	☐	☒

		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Closed Landfill	☒	☐
7.	Are all ICs in place and functioning as designed?	☒	☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

SITE NO. 902004

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

214.-1-2.1

VILLAGE OF WELLSVILLE

Ground Water Use Restriction
Monitoring Plan
O&M Plan

Box 4

Description of Engineering Controls

Parcel

Engineering Control

214.-1-2.1

Cover System
Fencing/Access Control
Leachate Collection

Per Site O&M Manual (11/01/1997), Environmental Control Systems:

- Cover System.
- Leachate Collection and Storage System.
- Gas Venting System.
- Storm Water System.
- Groundwater Monitoring System; and
- Facility Access System (i.e., Access Roads and gates.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒

☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒

☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 902004

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Dean Arnold at 200 Bolivar Road Wellsville, NY,
print name print business address

am certifying as _____ owner _____ (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

3-7-25
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jonathan Brandes, P.G. at 72 Railroad Ave. Wellsville, NY 14895,
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

3/7/25
Date

Appendix B

Monitoring Evaluation,
Approved Revised
Monitoring Plan and
NYSDEC Response



ON-SITE TECHNICAL SERVICES, INC

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

April 3, 2009

Linda Ross, CPG
New York State Department of Environmental Conservation
Division of Solid and Hazardous Materials, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Re: Wellsville/Andover Landfill Site (Site # 9-02-004) – Site Monitoring Evaluation and Proposed Revised Monitoring Plan

Dear Linda:

On behalf of the Village of Wellsville, this letter has been prepared to evaluate the above referenced site's post remedial action monitoring results and propose a revised monitoring plan tailored to the site for continued ample monitoring.

Background

The Wellsville/Andover Landfill was operated by the Village of Wellsville from 1964 to 1983, accepting both municipal and industrial waste. The site was added to the New York State Superfund and the New York State Department of Environmental Conservation (NYSDEC) selected capping with waste consolidation as the remedial action in the Record of Decision (ROD) for the site (NYSDEC 1994). Waste from the Northwest and Northeast fill areas was consolidated and capped on the South/South-central fill area. Following consolidation, the fill was compacted and capped with a 19-acre cover system, which incorporates a passive landfill gas (LFG) venting system, a leachate collection and storage system and a groundwater cut-off trench. Remedial construction activities were completed in September 1997.

An operation and maintenance plan was prepared for the site: *Operation and Maintenance Manual For The Wellsville/Andover Landfill Site Number 9-02-004 Allegany County, New York*, dated November 1997 (O&M Plan); which details O&M requirements. Section 3.3 of the O&M Plan states:

The primary goals of this action were to minimize leachate production, control and manage leachate produced, control LFG, consolidate the waste to reduce the size of the landfill, reduce the potential for

surface contact with waste and contaminated soils, and mitigate the spread of contaminated groundwater off site. The remedial action mitigated significant threats to the public health and the environment by:

- *Reducing the production of leachate within the fill mass;*
- *Eliminating the threat to surface waters by eliminating any future contaminated surface water runoff from the contaminated soils on site;*
- *Eliminating the potential for direct human or animal contact with the contaminated soils on site;*
- *Mitigate the impacts of contaminated groundwater to the environment;*
- *Mitigating, to the extent practicable, migration of contaminants in the landfill to groundwater; and*
- *Controlling LFG.*

Site Hydrogeology

Groundwater hydrogeology was investigated during the remedial investigation as summarized in the O&M Plan. Generally, groundwater flows from the North-Northeast to the South-Southwest as dictated primarily by topography. The overburden and bedrock beneath the site have been interpreted as being one continuous aquifer with no separating confining layer. However, in some areas of the site discontinuous low permeability horizons of silt and clay are present within the overburden creating perched water bearing zones. Groundwater flow is restricted vertically by localized clay/silt lenses, but aided in other areas by sand and gravel zones. In the top of bedrock, groundwater flow appears to be controlled by fractures and joints. Open and clay-filled bedrock fractures with many orientations were observed from remedial investigation borings. This indicates that groundwater can flow both horizontally and vertically within the overburden and top of bedrock.

Potentiometric mapping as part of approximately 11 years of post remediation monitoring indicate that groundwater flow conditions and directions have shown little variations from that observed during the remedial investigation.

Evaluation of Monitoring Results

Post remedial action site monitoring commenced in June 1998 and was conducted quarterly through 1999. Starting in 2000 and continuing through 2008, site monitoring has been conducted semi-annually. The monitoring has included sampling and analysis of groundwater, surface water and sediment, groundwater collection system water and leachate. These samples are tested for field parameters, Volatile Organic Compounds (VOCs), 15 Metals and 14 wet chemistry compounds listed in the table below.

Field Parameters

Specific Conductance
 Temperature
 pH
 Oxygen Reduction Potential
 Dissolved Oxygen
 Turbidity

Inorganic Compounds

Arsenic
 Barium
 Cadmium
 Calcium
 Chromium
 Copper
 Iron
 Lead
 Magnesium
 Manganese
 Nickel
 Potassium
 Selenium
 Sodium
 Zinc

Volatile Organic Compounds

1,1,1-Trichloroethane
 1,1,2,2-Tetrachloroethane
 1,1,2-Trichloroethane
 1,1-Dichloroethane
 1,1-Dichloroethene
 1,2-Dibromoethane
 1,2-Dichloroethane
 1,2-Dichloropropane
 2-Butanone (MEK)
 2-Hexanone
 4-Methyl-2-pentanone
 Acetone
 Benzene
 Bromodichloromethane
 Bromoform
 Bromomethane
 Carbon disulfide
 Carbon tetrachloride
 Chlorobenzene
 Chloroethane
 Chloroform
 Chloromethane
 cis-1,2-Dichloroethene
 cis-1,3-Dichloropropene
 Dibromochloromethane
 Dichloromethane (Methylene chloride)
 Ethyl benzene
 m&p-Xylene
 o-Xylene
 Styrene
 Tetrachloroethene
 Toluene
 trans-1,2-Dichloroethene
 trans-1,3-Dichloropropene
 Trichloroethene
 Vinyl chloride

Wet Chemistry

Alkalinity
 Ammonia
 Biochemical Oxygen Demand
 Bromide
 Chemical Oxygen Demand
 Chloride
 Color (True)
 Hardness
 Sulfate
 Total Dissolved Solids
 Total Kjeldahl Nitrogen
 Total Organic Carbon (TOC)
 Total Phenolics
 Turbidity

Additionally potentiometric mapping, landfill gas monitoring and sampling and analysis of nearby residential water supplies is conducted. An evaluation of these approximately 11 years of monitoring results is presented below.

Groundwater

The current site monitoring well network consists of 18 wells required to be sampled annually and 11 of the 18 wells sampled semi-annually. Please see attached figure 1 for monitoring well locations. The table below presents a summary of parameters detected in groundwater during the last five years of monitoring.

Summary of 2004 through 2008 Groundwater Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection	Class GA Standard	Number of Class GA Exceedances

Metals

Barium	119	98	0.0202	0.32	1	0
Calcium	119	119	2.96	140		
Chromium	119	1	0.011	0.011	0.05	0
Iron	119	97	0.108	13.4	0.3	77
Lead	119	8	0.0052	0.0733	0.025	1
Magnesium	119	118	0.651	64		
Manganese	119	112	0.0102	1.65	0.3	58
Potassium	119	85	2.1	33.5		
Selenium	119	1	0.00522	0.00522	0.01	0
Sodium	119	119	1.56	67.4	20	45
Zinc	119	21	0.0205	0.347		0

VOCs

1,1-Dichloroethene	134	1	0.0066	0.0066	0.005	1
cis-1,2-Dichloroethene	134	94	0.005	3	0.005	93
Ethyl benzene	134	1	0.0073	0.0073	0.005	1
Toluene	134	1	0.0065	0.0065	0.005	1
trans-1,2-Dichloroethene	134	4	0.011	0.021	0.005	4
Trichloroethene	134	80	0.0052	3.2	0.005	80
Vinyl chloride	134	34	0.005	0.83	0.002	34

Wet Chemistry

Alkalinity	113	113	7.2	410		
Ammonia Nitrogen	115	11	0.0512	0.161	2	0
Biochemical Oxygen Demand	111	15	2.13	13		
Bromide	113	6	1.06	1.38		
Chemical Oxygen Demand	115	40	5.13	18.8		
Chloride	113	89	2.04	71.4	250	0
Color (True) (C.U.)	116	70	5	75	15	10
Hardness	117	117	12.2	519		
Sulfate	113	113	3.49	161	250	0
Total Dissolved Solids	113	113	32	698	500	5
Total Kjeldahl Nitrogen	115	34	0.203	2.74		
Total Organic Carbon (TOC)	115	70	1.01	7.51		
Total Phenolics	114	2	0.00706	0.0181	0.001	2

As observed in the table above and also previously described in site monitoring reports, there are three metals (Iron, Manganese and Sodium) and three VOCs (cis-1,2-Dichloroethene (cDCE), Trichloroethene (TCE) and Vinyl chloride) that frequently exceed NYSDEC Class GA Groundwater Standards. Therefore, concentration verses time plots for these six compounds have been prepared for monitoring wells that exhibit exceedances. These wells include CW-3A, CW-3B, CW-4B, MW-5D, MW-5S, MW-15S and MW-18S for metals and VOCs and MW-11S and MW-16S for VOCs. These plots are attached for reference.

In General, for Iron, Manganese and Sodium, increasing or decreasing time trends are not apparent. The three metals have been detected at various concentrations above standards at both upgradient and downgradient wells. These metals are common constituents of soil and groundwater and often occur naturally at the concentrations detected.

Volatile Organic Compound analyses of groundwater have shown evident time trends and VOCs are the primary constituents of concern at this site. For this reason statistical analysis was performed to evaluate total VOCs (sum of detected VOCs in a given sample). The data set utilized for the analysis includes all available post remediation VOC results, which generally includes 24 sampling events over an 11 year period. The statistical analysis was conducted using the Mann-Kendall test using a normal approximation method in accordance with *USEPA Data Quality Assessment: Statistical Methods for Practitioners EPA QA/G-9S*, dated February 2006. In this analysis, a null hypothesis of "There is no trend" is tested against an alternative hypothesis of either "There is an upward trend" or "There is a downward trend". This analysis involves using a triangular table to compute a Statistic (S) and test it against a critical value and a probability value at a 5 % significance level (95% confidence level). If both criteria are met, then the null hypothesis of no trend is rejected in favor of the alternative hypothesis. Rejecting the null hypothesis suggests that the alternative hypothesis may be true. Alternative hypotheses are upward trend for S greater than zero and downward trend for S less than zero. If only one criterion or neither criteria are met, then the result is not enough evidence to show a trend. These statistical analyses are presented in Table 1 attached. A discussion of time trend plots and statistical analysis by individual monitoring well is provided below.

CW-3A – This is an overburden well located immediately downgradient of the landfill.

Plot observation: This well exhibited anomalous high results in June 2005, but has returned to lower levels the last seven samplings. TCE and cDCE have shown a decreasing trend the last three samplings, while vinyl chloride has been non-detect except in June 2005.

Statistical analysis: There is strong evidence of an upward trend in total VOC concentrations.

CW-3B – This is an overburden well located immediately downgradient of the landfill and adjacent to CW-3A. This well is approximately 12.5 feet deeper than CW-3A.

Plot observation: There is an apparent slight increasing trend in concentrations of TCE and cDCE.

Statistical analysis: There is strong evidence of an upward trend in total VOC concentrations.

CW-4B – This is an overburden well located immediately downgradient of the landfill.

Plot observation: The plot shows a slight downward trend with TCE and Vinyl chloride results non-detect the last five years and cDCE has been non-detect since December 2005.

Statistical Analysis: There is evidence of a downward trend, but not statistically significant at the 5% significance level (95% confidence level). Therefore, the result of the statistics is no trend.

MW-4D – This is a bedrock well located cross-gradient and East of the Northern portion of the landfill.

Plot observation: This well exhibits an apparent seasonal fluctuation in VOCs with an inverse proportional relationship to groundwater elevation. Elevated concentrations of primarily cDCE occur in the fall when groundwater elevations are low and then decrease in the spring when groundwater elevations are high. However, this seasonal fluctuation is not represented in the graph for the period of 2003 to 2007 when semi-annual sampling was conducted in the months of June and December and did not include samplings at low groundwater elevation periods. This period may have included times of elevated cDCE, but this is unknown because sampling was not conducted during periods of low groundwater levels.

Statistical Analysis: There is evidence of a downward trend, but not statistically significant at the 5% significance level (95% confidence level). Therefore, the result of the statistics is no trend.

MW-5S – This is an overburden well located cross-gradient and East of the central portion of the landfill.

Plot observation: There is a decreasing trend apparent from 1998 to 2002 and concentrations have remained low and relatively stable since 2002.

Statistical analysis: There is evidence of a downward trend, but not statistically significant at the 5% significance level (95% confidence level). Therefore, the result of the statistics is no trend.

MW-5D – This is a bedrock well located immediately adjacent to MW-5S.

Plot observations: cDCE is observed at higher concentrations than TCE and Vinyl chloride, but there is not an apparent increasing or decreasing trend.

Statistical analysis: There is no trend.

MW-11S – This is an overburden well located approximately 230 feet downgradient of the landfill and has been sampled semi-annually since 2005.

Plot observation: The plot shows fairly consistent VOC concentrations over time. TCE is the highest concentration (approximately 3 mg/L), cDCE is consistently around 0.5 mg/L and Vinyl chloride has been non-detect.

Statistical analysis: There is no trend.

MW-15S – This is an overburden well located cross/downgradient and approximately 600 feet from the landfill.

Plot observation: There is no discernable upward or downward trend. cDCE has been detected at concentrations between 0.011 mg/L and 0.04 mg/L, TCE fluctuates between

approximately 0.5 mg/L and non-detect and Vinyl chloride has been non-detect since 2002. However, this well does appear to exhibit seasonal fluctuations in VOC concentrations similar to MW-4D.

Statistical analysis: There is no trend.

MW-16S – This is an overburden well located approximately 1000 feet downgradient of the landfill. This well has been sampled on the same frequency as MW-11S.

Plot observation: cDCE, TCE and Vinyl chloride results are below detection limits, with the exception of TCE at 0.066 mg/L in September 2006.

Statistical analysis: Since there is only one VOC detection at this well; statistical analysis is not applicable.

MW-18S - This is an overburden well located cross-gradient and West of the northern portion of the landfill.

Plot observation: A time trend is not obvious, but there is a good correlation between cDCE and TCE, while Vinyl chloride has not been detected. cDCE and TCE concentrations increased in 2000 as compared to 1998 through 1999 and remained at similar concentration through 2007.

Statistical analysis: There is evidence of an upward trend. However, it should be noted that both criteria thresholds were just slightly exceeded, indicating that there is just enough evidence to reject no trend in favor of an upward trend.

Surface Water and Sediment

Surface water and sediment samples have been collected annually since 2000 from location SWS-1 (see figure 1). Prior to spring 2000 surface water and sediment samples were collected quarterly from SWS-1 and two other down stream locations. Additionally, three landfill perimeter seep samples were collected between 2001 and 2003. Seeps have not been observed active since 2003. SWS-1 is the currently required surface water and sediment sampling location; therefore results from this location are discussed below.

Location SWS-1 is located at the downstream side of the culvert within the drainage ditch that leads to an unnamed tributary to Duffy Hollow Creek. Both the unnamed tributary and Duffy Hollow Creek are classified as NYSDEC Class C streams. Since June 1998, 15 surface water samples have been collected at SWS-1. From these 15 samples, four samples have exhibited Class C surface water exceedances as presented in the table below.

SWS-1 Surface Water Class C Exceedances (mg/L)

Parameter	SWS-1 6/25/1998	SWS-1 12/2/1998	SWS-1 3/25/1999	SWS-1 6/16/2005	Class C Standard
Lead	0.0088		0.0089		0.008
Nickel			0.0176 B		0.0082
Thallium		0.0127			0.008
Total Dissolved Solids				642	500

VOCs have not been detected at SWS-1 with the following exceptions. There were three Acetone detections between 1998 and 1999, which are probable laboratory artifacts. cDCE was detected five times at a maximum concentration of 0.0067 mg/L. The last cDCE detection was reported in April 2003.

Sediment sampling at SWS-1 has shown typical metal and wet chemistry parameter detections along with minimal VOC detections. A summary of SWS-1 sediment detections is presented in the table below.

SWS-1 Sediment Analytical Result Summary (mg/Kg)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
Aluminum	7	7	8780	13100
Arsenic	15	15	7.16	73.4
Barium	15	15	51.2	348
Beryllium	7	5	0.628	0.876
Boron	7	2	27.1	41.1
Cadmium	15	2	0.18	1.14
Calcium	15	15	3850	43200
Chromium	15	15	7.26	21.2
Cobalt	7	7	9.9	17.4
Copper	15	15	10.2	25.5
Iron	15	15	11800	41200
Lead	15	15	6.22	30
Magnesium	15	15	1780	8490
Manganese	15	15	579	8160
Mercury	7	1	0.01	0.01
Nickel	15	15	10.3	32.3
Potassium	15	15	862	4600
Selenium	15	6	1.3	13.1
Sodium	15	12	81.9	1390
Thallium	7	1	3.21	3.21
Vanadium	7	7	11.2	23.4
Zinc	14	14	74.3	2610
1,1,2-Trichloroethane	15	1	0.012	0.012
1,2-Dichloroethane	15	1	0.012	0.012
2-Butanone (MEK)	15	2	0.004	0.033
Acetone	15	5	0.016	0.22
Chloromethane	15	1	0.004	0.004
Toluene	15	2	0.0027	0.071

SWS-1 Sediment Analytical Result Summary (mg/Kg)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
Alkalinity	15	14	376	14300
Ammonia Nitrogen	15	11	8.12	339
Biochemical Oxygen Demand	14	13	203	49500
Bromide	15	1	13.1	13.1
Chemical Oxygen Demand	15	15	15600	535000
Chloride	15	4	41.8	144
Hardness	14	13	689	44300
Sulfate	15	4	39.3	1700
Total Kjeldahl Nitrogen	15	15	168	5790
Total Organic Carbon (TOC)	10	10	0.34	46700
Total Phenolics	15	1	0.447	0.447
Total Solids	14	14	14.1	82.6

Groundwater Cut-off System

The groundwater cut-off system is intended to capture upgradient groundwater from the North and East landfill perimeters prior to contacting waste within the landfill. The North side collection trench drains to Manhole MH-32 located at the Northwest corner of the landfill, while the East side collection trench drains to Manhole MH-33 at the Southeast corner of the landfill. Both MH-32 and MH-33 are piped to drain either to the leachate collection system or to the landfill perimeter surface water drainage channels. To date, water in MH-32 and MH-33 has been drained to the leachate collection system. The pipes from the manholes to the drainage channel are closed with removable plugs. Sampling of these two manholes has been conducted since 1998 in anticipation of demonstrating acceptable water quality for discharge to the surface water drainage channels. A summary of parameters exceeding Class C surface water standards is provided below.

MH-32 & MH-33 Groundwater Cut-off System Class C Surface Water Exceedance Summary (mg/L)

Parameter	Number of Sample	Number of Detections	Minimum Detection	Maximum Detection	Class C Standard	Number of Class C Exceedances
Cobalt	12	4	0.0056	0.154	0.005	4
Lead	46	11	0.0027	0.165	0.008	7
Nickel	46	4	0.0056	0.272	0.0082	3
Thallium	12	3	0.0055	0.0178	0.008	2
Vanadium	12	4	0.0043	0.0826	0.014	2
Dichloromethane (Methylene chloride)	42	9	0.0027	1.9	0.2	1
Trichloroethene	42	20	0.0011	1.6	0.04	6
Ammonia Nitrogen	42	41	0.0955	7.69	2	12
Total Dissolved Solids	42	42	203	1650	500	16

Additionally, since cDCE, TCE and Vinyl chloride are the three primary constituents of concern in groundwater; time trend plots of these three compounds were created for MH-32 and MH-33 and are attached. MH-32, and to a greater extent MH-33, show a decreasing trend in these VOCs. However, at this time groundwater cut-off trench water does not meet standards to allow discharge to surface water.

Leachate

The quantity of leachate generated at the site has greatly decreased following the remedial action (please see attached graph). Leachate is sampled from the leachate sump. Since the groundwater cut-off system has drained to the leachate sump to date, leachate samples are a composite from the leachate collection system and groundwater cut-off trench. Various metals, VOCs and wet chemistry parameters are typically detected as presented in the summary table below.

Summary of Leachate Sump Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
Aluminum	5	4	0.164	8.76
Arsenic	21	12	0.0051	0.238
Barium	21	21	0.112	0.961
Boron	4	3	0.163	0.659
Cadmium	21	1	0.00572	0.00572
Calcium	21	21	78.7	151
Chromium	21	4	0.0101	0.0205
Cobalt	4	1	0.0034	0.0034
Copper	21	4	0.0043	0.0392
Iron	21	21	3.22	360
Lead	21	10	0.0043	0.0738
Magnesium	21	21	25.1	62.2
Manganese	21	21	3.72	13.7
Nickel	21	1	0.0054	0.0054
Potassium	21	21	3.57	16.9
Selenium	21	3	0.005	0.00981
Sodium	21	21	14.6	112
Tin	3	1	0.198	0.198
Vanadium	4	1	0.0632	0.0632
Zinc	18	11	0.0159	0.21
1,1-Dichloroethane	21	2	0.0014	0.0022
2-Butanone (MEK)	21	2	0.031	0.05
4-Methyl-2-pentanone	21	1	0.0049	0.0049
Acetone	21	5	0.0056	0.044
Benzene	21	2	0.0022	0.0044
Chlorobenzene	21	1	0.0019	0.0019
Chloroethane	21	1	0.0027	0.0027
Chloroform	21	2	0.0018	0.0034
cis-1,2-Dichloroethene	21	21	0.011	0.95
Dichloromethane (Methylene	21	2	0.0023	0.067

Summary of Leachate Sump Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection
chloride)				
Ethyl benzene	21	6	0.005	0.1
m&p-Xylene	21	1	0.0075	0.0075
o-Xylene	21	1	0.0038	0.0038
Phenol	5	1	0.044	0.044
Toluene	21	4	0.0022	0.026
trans-1,2-Dichloroethene	21	4	0.0026	0.0075
Trichloroethene	21	14	0.0064	0.038
Vinyl chloride	21	16	0.0029	0.05
Alkalinity	19	19	276	566
Ammonia Nitrogen	19	19	0.0873	12.1
Biochemical Oxygen Demand	19	8	2.01	5.4
Bromide	19	3	1.02	1.43
Chemical Oxygen Demand	19	18	12.3	17100
Chloride	19	19	27.8	200
Color (True) (C.U.)	19	19	10	200
Hardness	19	19	328	675
Sulfate	19	19	4.26	26.3
Total Dissolved Solids	19	19	357	925
Total Kjeldahl Nitrogen	19	19	2.17	14.8
Total Organic Carbon (TOC)	18	18	2.04	26
Total Phenolics	19	1	0.00588	0.00588

Landfill Gas Monitoring

Landfill gas monitoring has been conducted at the site for approximately 10 years using an FID and an O₂/LEL meter. This monitoring has provided substantial characterization of the landfill gas and shown fairly consistent results. Several of the gas vents, leachate clean outs and manholes exhibit high concentrations of Methane and low levels of Oxygen, while the landfill perimeter readings are generally within normal background levels. Additional gas monitoring was conducted in June 2005 using a GEM 2000 landfill gas meter to provide more characterization of the landfill gas. The June 2005 monitoring showed several locations with Methane readings between approximately 33% and 97%. This monitoring has demonstrated that the primary landfill gas is Methane. Starting with the March 2007 monitoring event, a PID has been utilized instead of an FID. The PID provides monitoring of VOCs while an O₂/LEL meter continues to be used to monitor Oxygen and Methane.

Residential Water Supplies

There are 20 residential water supply locations in the monitoring program. The current monitoring schedule requires that three water supplies be sampled semi-annually (spring and fall) and the remaining 17 locations be sampled every three years. The table below presents a summary of detected parameters from the last five years of sampling, which includes sampling of the available 20 locations in 2005 and 2008.

Summary of 2004 through 2008 Residential Water Supply Detected Parameters (mg/L)

Parameter	Number of Samples	Number of Detections	Minimum Detection	Maximum Detection	Class GA Standard	Number of Class GA Exceedances	NYSDOH MCL	Number of NYSDOH MCL Exceedances
Barium	53	52	0.002	0.11	1	0	1	0
Calcium	53	53	3.4	54.4				
Copper	53	20	0.01	0.16	0.2	0	1	0
Iron	53	25	0.06	1	0.3	9	0.3	9
Lead	53	1	0.015	0.015	0.025	0	0.05	0
Magnesium	53	53	1.6	20.8				
Manganese	57	35	0.0054	2.8	0.3	14	0.3	14
Potassium	53	53	0.7	4.4				
Sodium	53	53	1.1	104	20	28		0
Zinc	53	11	0.011	0.22			5	0
cis-1,2-Dichloroethene	58	9	0.00084	0.0021	0.005	0		
Trichloroethene	58	9	0.0012	0.0028	0.005	0	0.005	0

As shown in the table above, two parameters (Iron and Manganese) have shown exceedances of standards during the last five years. Eight of the nine Iron exceedances are from location WAL-2, which is a seasonal hunting camp adjacent to the Southwest corner of the landfill. The other Iron exceedance is WAL-17 in November 2005. WAL-17 is located approximately 8000 feet from the landfill; therefore this exceedance is unlikely related to the site. The Manganese exceedances are from WAL-2 and WAL-20. WAL-20 is also located approximately 8000 feet from the site and Manganese concentrations have been near or below detection limits since this residential well was replaced in 2005. The VOC detections shown in the table above are from pre-filtered WAL-19 samples. WAL-19 is located Southeast of the landfill and includes a two-stage carbon treatment system maintained by the Village of Wellsville.

Summary of Monitoring Results Evaluation

Volatile Organic Compounds and to a lesser extent, metals, are the constituents of concern at the site. VOCs groundwater concentrations are stable at most wells and trending upward at three wells. The locations where VOCs are trending upward are immediately adjacent to the landfill and this upward trend is indicative of minimal groundwater flow. Groundwater level drawdown during sampling and slow recovery (in some cases days) further illustrate that groundwater flow is extremely measured. Metals have shown exceedances of standards in both upgradient and downgradient wells and in many cases are naturally occurring. Wet Chemistry parameters in groundwater are generally below standards and do not appear to be a good indicator of landfill impacts on groundwater at this site. This is contrary to typical municipal solid waste landfills and should be considered when evaluating future site monitoring needs. Surface water and sediment sampled at location SWS-1 appears un-impacted by the site. Groundwater collection system sampling shows some signs of decreasing concentrations, but results do not meet surface water standards at this time. Leachate continues to show several detections, but is generally

more dilute as compared to operating municipal landfills. Two Residential water supplies close to the landfill continue to show detections of constituents of concern.

These 11 years of monitoring results demonstrate that the remedial action goals continue to be met. Leachate quantities have greatly decreased following the remedial action. Surface water is not impacted by the site. Contaminated groundwater and landfill gas migration is being controlled. The remedial action has mitigated significant threats to public health and the environment.

Proposed Monitoring Program

Based on the above evaluation of monitoring results, a revised monitoring program has been designed to meet the needs of continued surveillance of the remedial objectives into the future. VOCs and metals are the primary constituents of concern and wet chemistry parameters do not appear to be good indicators at this site. The project analyte list is proposed to be revised to include field parameters, VOCs and metals with a few exceptions. The proposed monitoring requirements are presented in Table 2 attached and discussed below.

Groundwater

Groundwater sampling is proposed to be conducted annually, each Fall, in an attempt to capture annual high groundwater concentrations. Sampling locations will include currently sampled wells, with the following exceptions. Upgradient well MW-1D will not be sampled because upgradient water quality has been adequately characterized and no concern of an upgradient contaminate source. Sampling of overburden wells CW-3A and CW-4A will be discontinued because overburden wells CW-3B and CW-4B are immediately adjacent to these wells and show similar water chemistry. Bedrock well MW-15DA has not been sampled following the remedial action, because it has been dry. MW-15DA will be removed from the required sampling list.

Surface Water and Sediment

Surface water at location SWS-1 will be sampled during the annual Fall event with analysis for field parameters, VOCs, Metals, Nitrate Nitrogen and Total Dissolved Solids (TDS). Nitrate Nitrogen and TDS are tested in anticipation that the groundwater cut-off system may one day discharge to surface water and these two parameters frequently exceed Class C surface water standards in groundwater cut-off system water. Sediment sampling at this location has limited usefulness and is therefore discontinued.

Groundwater Cut-Off System

Manholes MH-32 and MH-33 will be sampled during the annual Fall event with analysis for field parameters, VOCs, Metals, Nitrate Nitrogen and TDS. Sampling of these locations is conducted in anticipation of future discharge to surface water.

Leachate

Leachate sump will be sampled during the annual Fall event.

Landfill Gas Monitoring

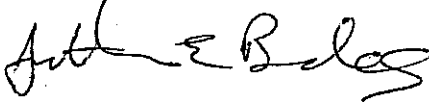
Landfill gas has been adequately characterized and has not been detected at the landfill perimeter; therefore landfill gas monitoring will be discontinued.

Residential Water Supply

Hunting camp WAL-2 will be sampled annually for metals. Resident WAL-5 will be sampled annually for VOCs and Metals. The two-stage carbon treatment unit will be maintained at residence WAL-19 with semi-annual sampling for VOCs prior to filtration, between the filters and post filtration. The remainder of the residential water supply sampling will be discontinued.

The Village of Wellsville and On-Site appreciate your review and consideration on this matter. If you have any questions or require any clarification on the information presented in this letter, please call the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan E. Brandes", written in a cursive style.

Jonathan E. Brandes, P.G.

Senior Geologist

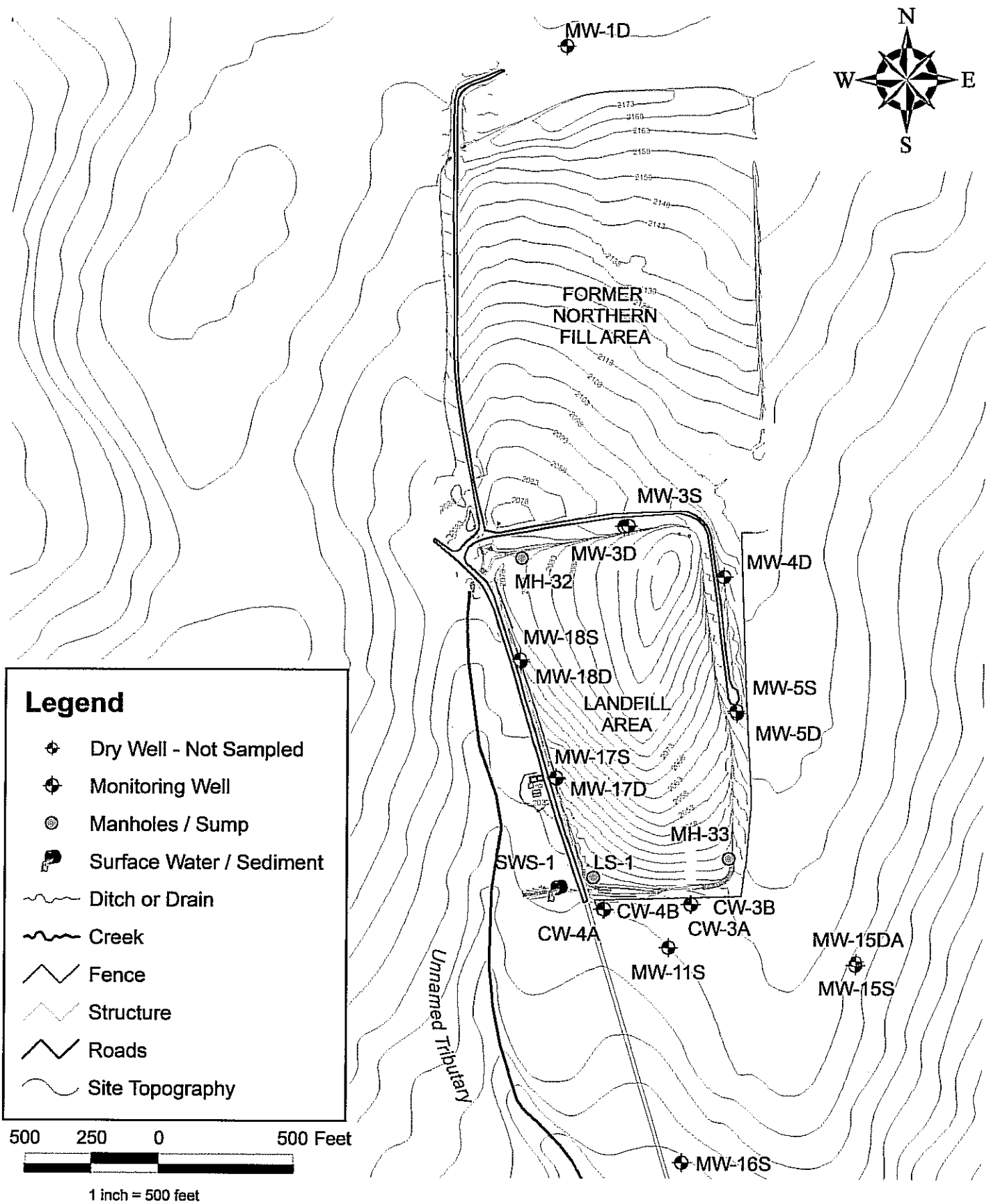
cc: Bill Whitfield, Village of Wellsville

Judy Lynch, Village Trustee, Liaison to Landfill

Tamara S. Girard, NYSDOH

Attachments

SAMPLING LOCATIONS

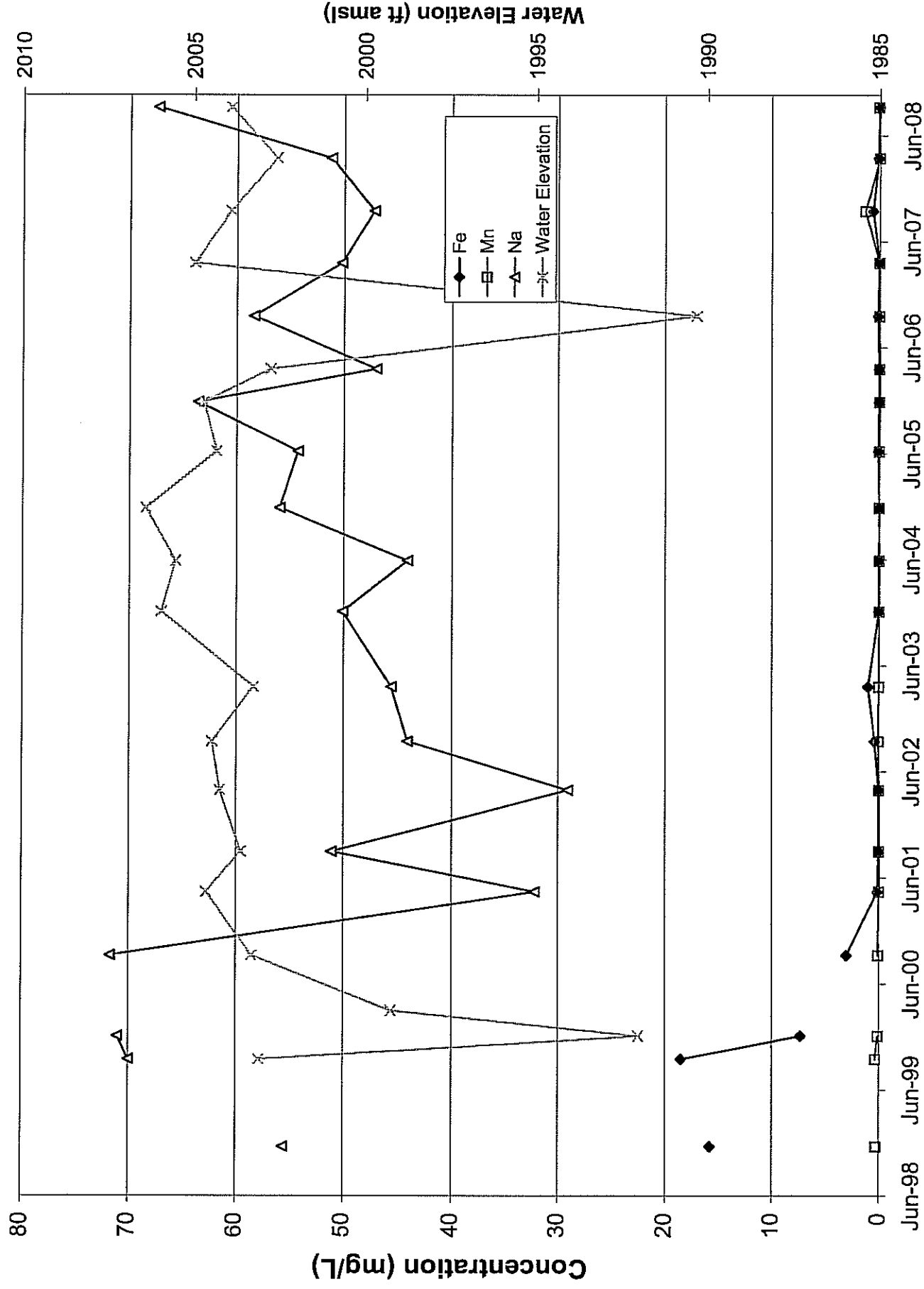


ON-SITE TECHNICAL SERVICES, INC.

72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	1
PROJECT	WAL
DOCUMENT	2009 Site Review
FILE NO.	Fig 1 - Samp Locs.mxd

CW-3A Metals

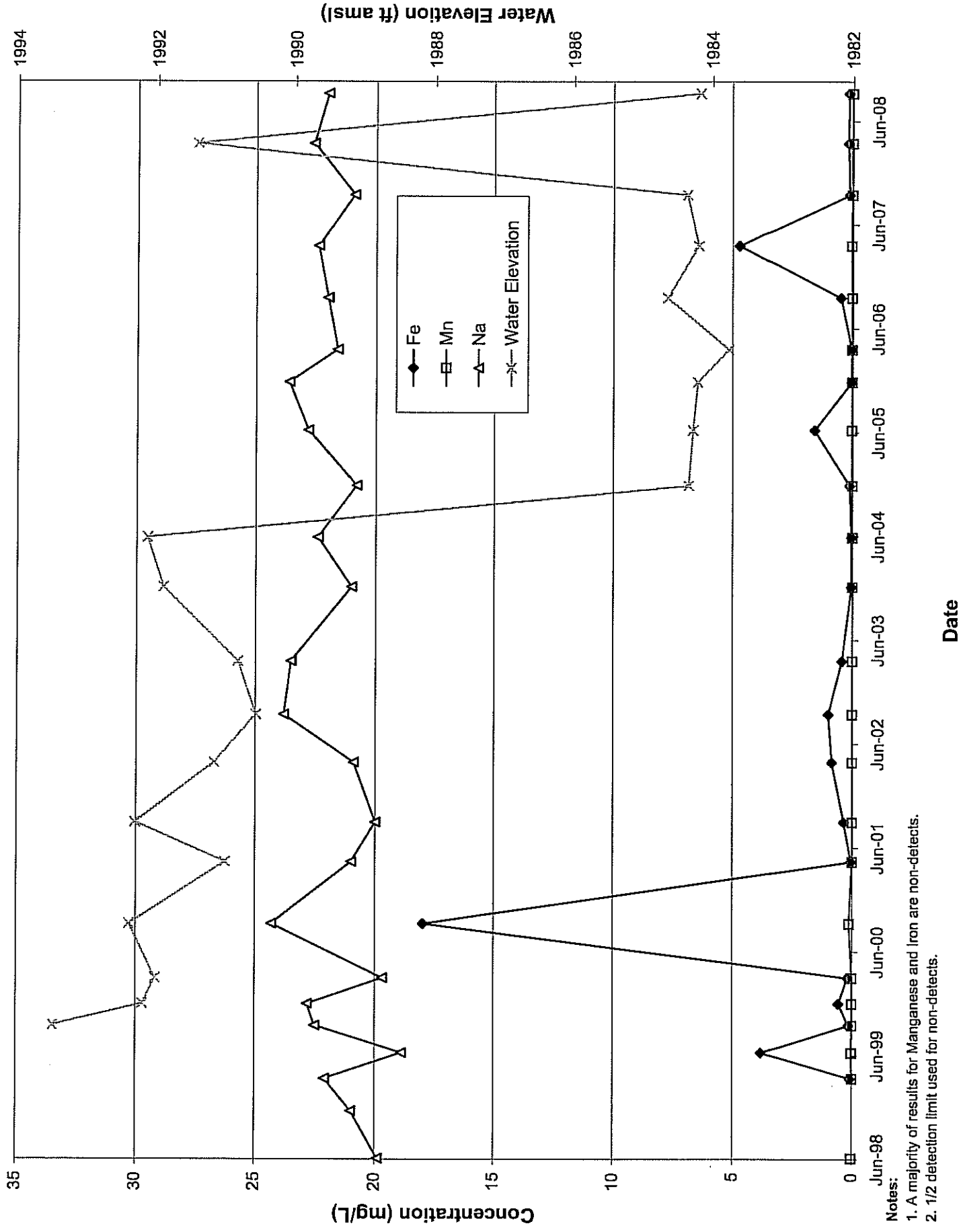


Notes:

1. The majority of results for Manganese and Iron are non detect.
2. 1/2 Detection limit used for non-detects.

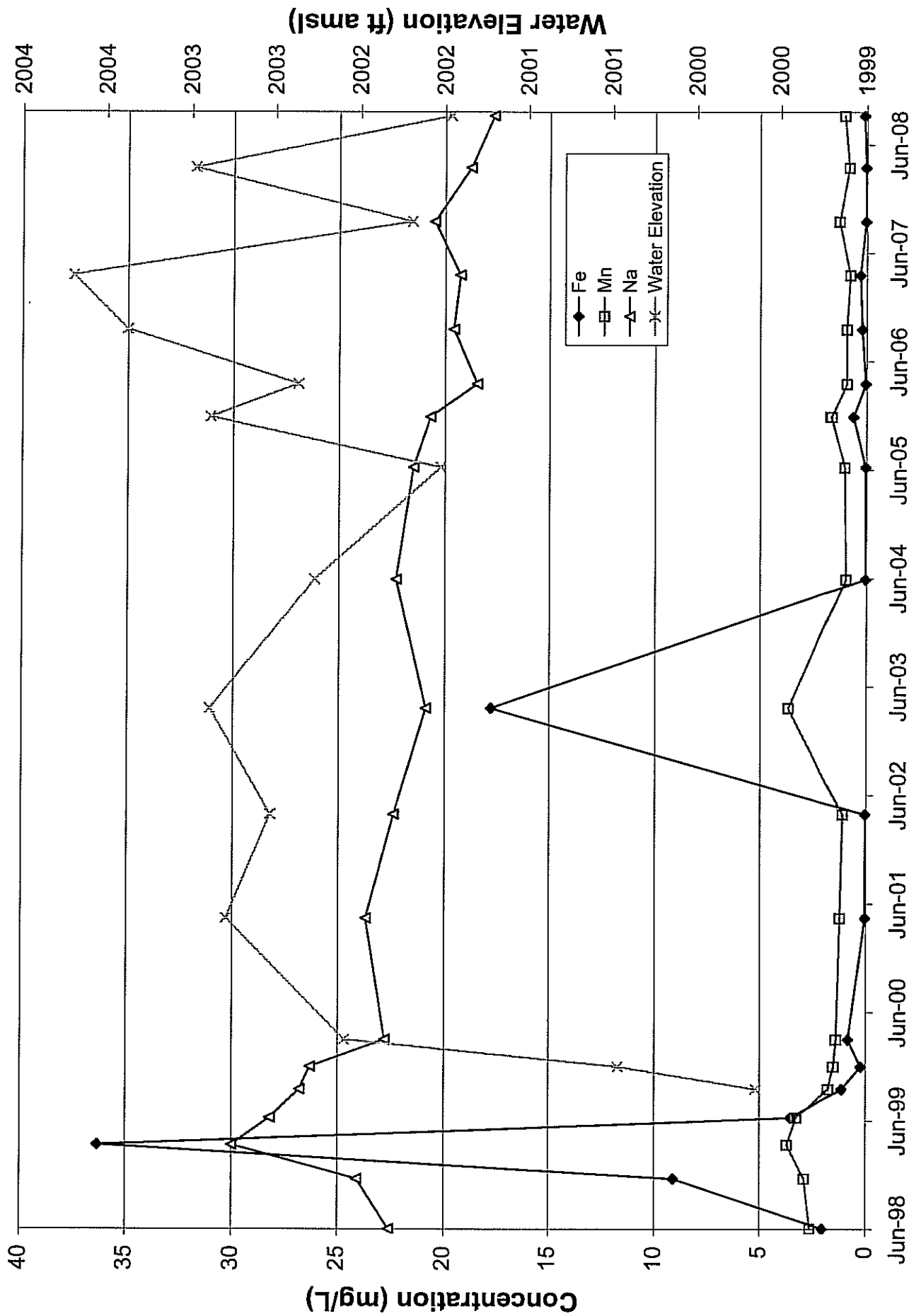
Date

CW-3B Metals



- Notes:
1. A majority of results for Manganese and Iron are non-detects.
 2. 1/2 detection limit used for non-detects.

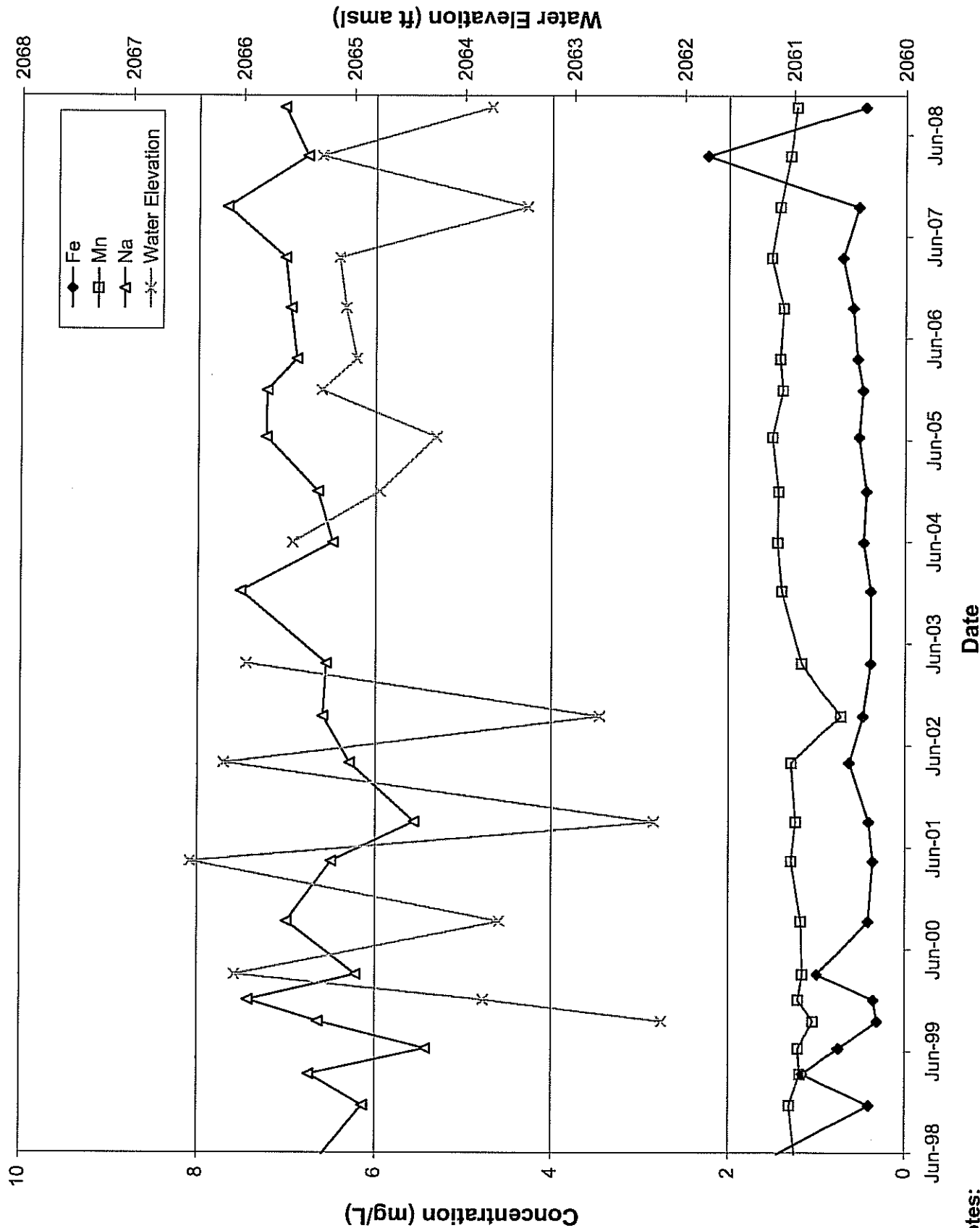
CW-4B Metals



Notes:

1. 1/2 detection limit used for non-detects
2. Iron is non-detect on 4/25/2001, 4/9/2002, 6/8/2004, 6/20/2005, 3/28/2006, 9/25/2007 and 3/25/2008

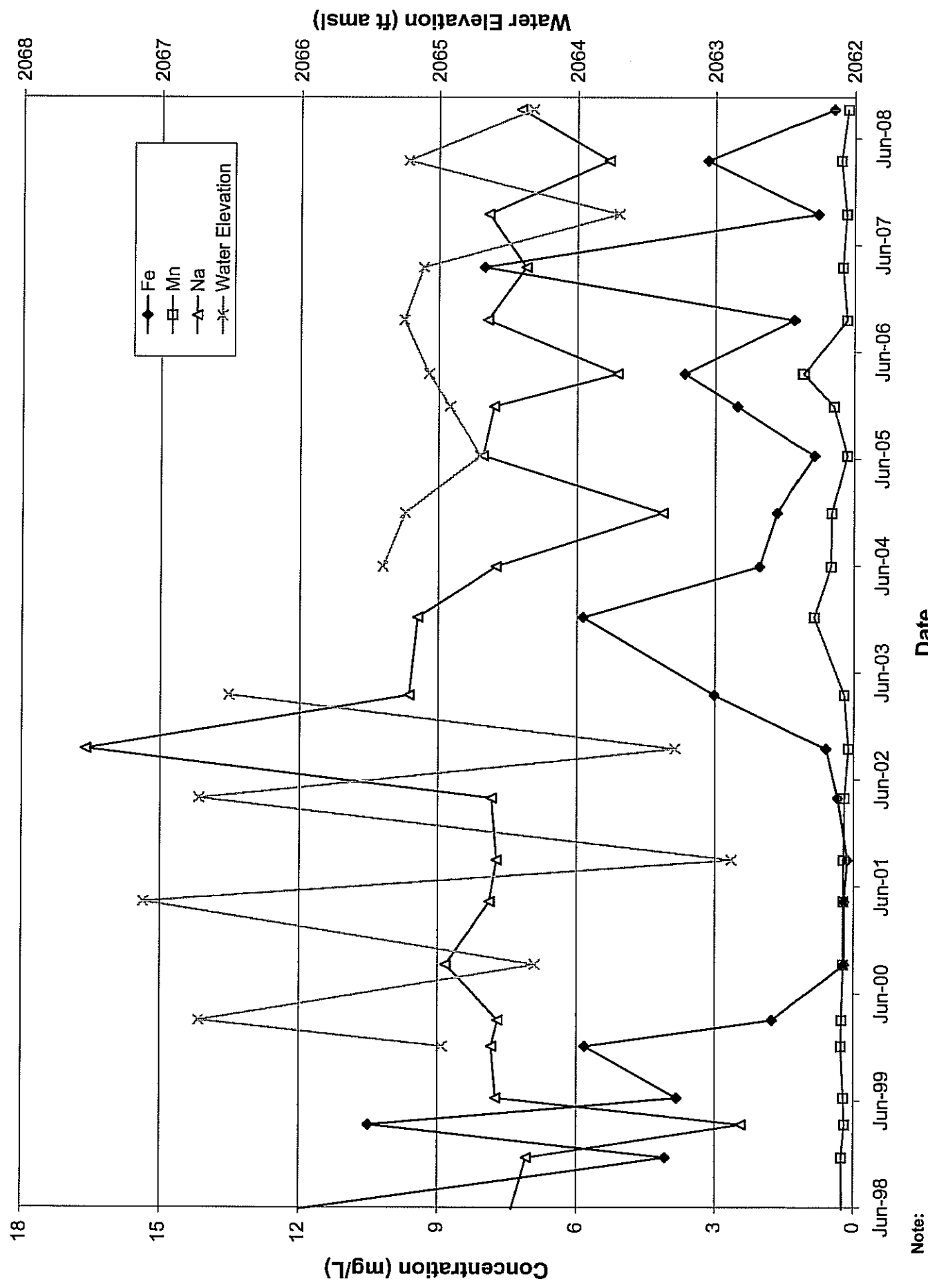
MW-5D Metals



Notes:

- 1/2 Detection limit used for non-detects
- No water elevation available December 2003.

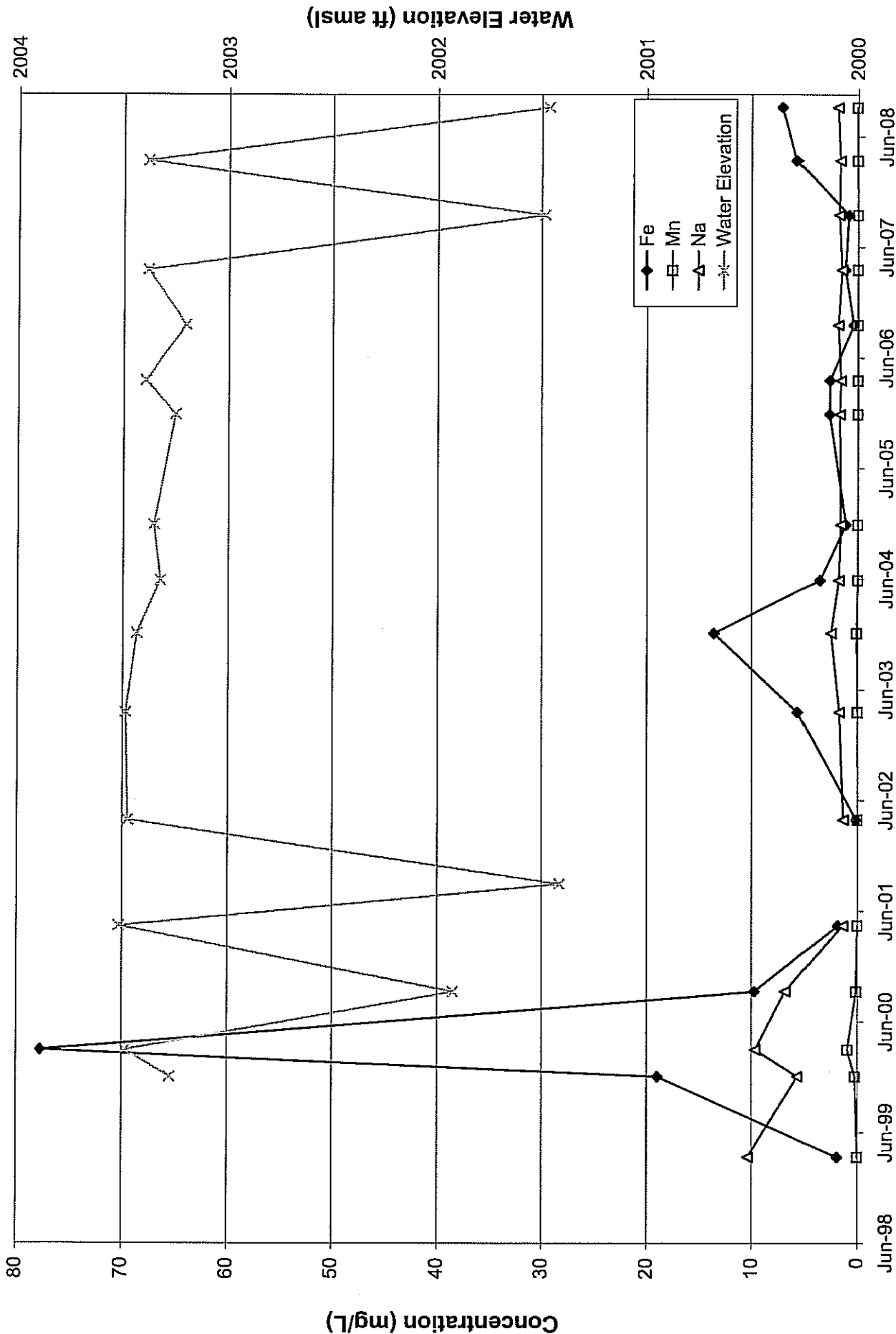
MW-5S Metals



Note:

- 1/2 detection limit used for non-detects.
- No water elevation available for December 2003.

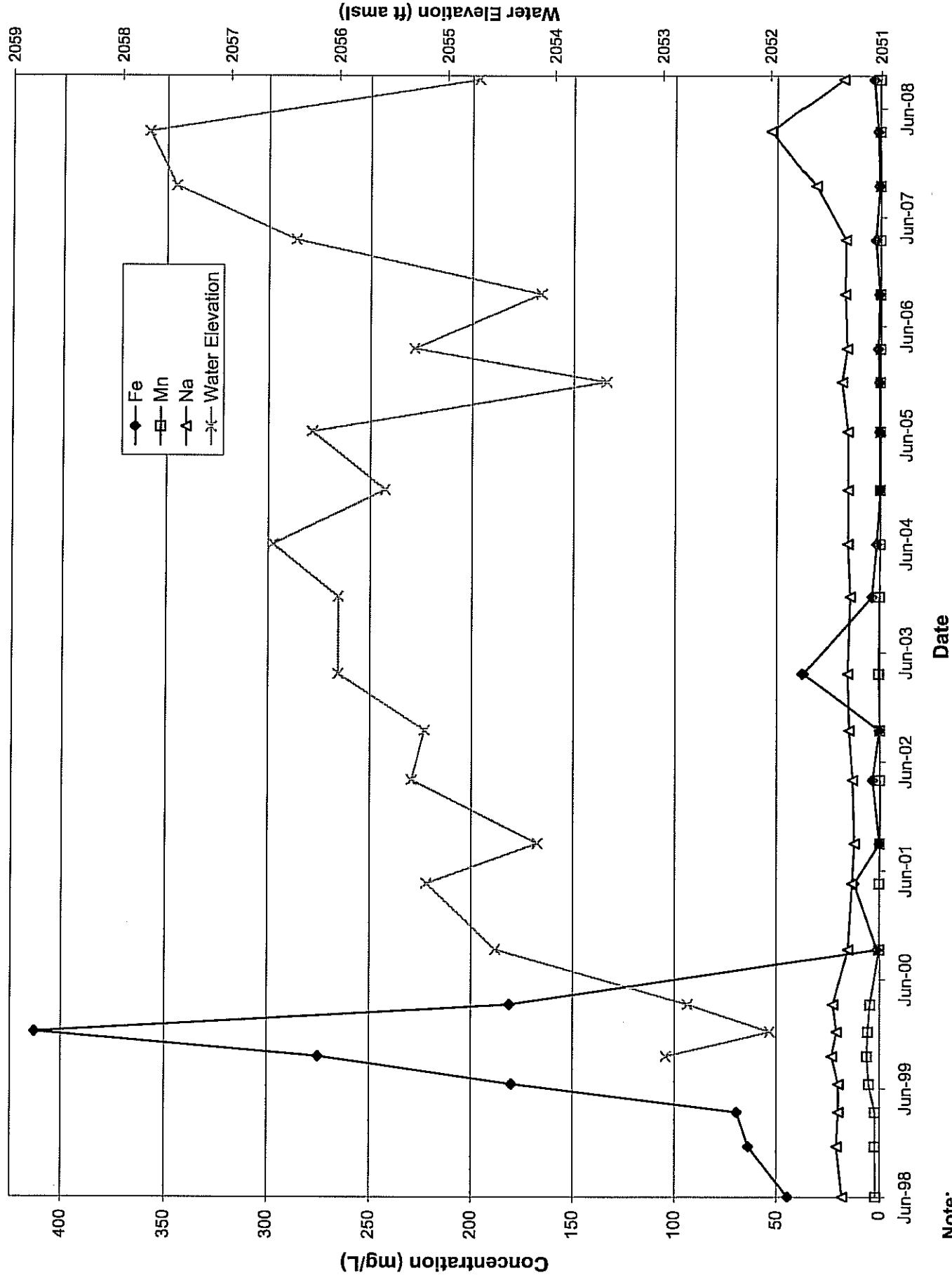
MW-15S Metals



Notes:

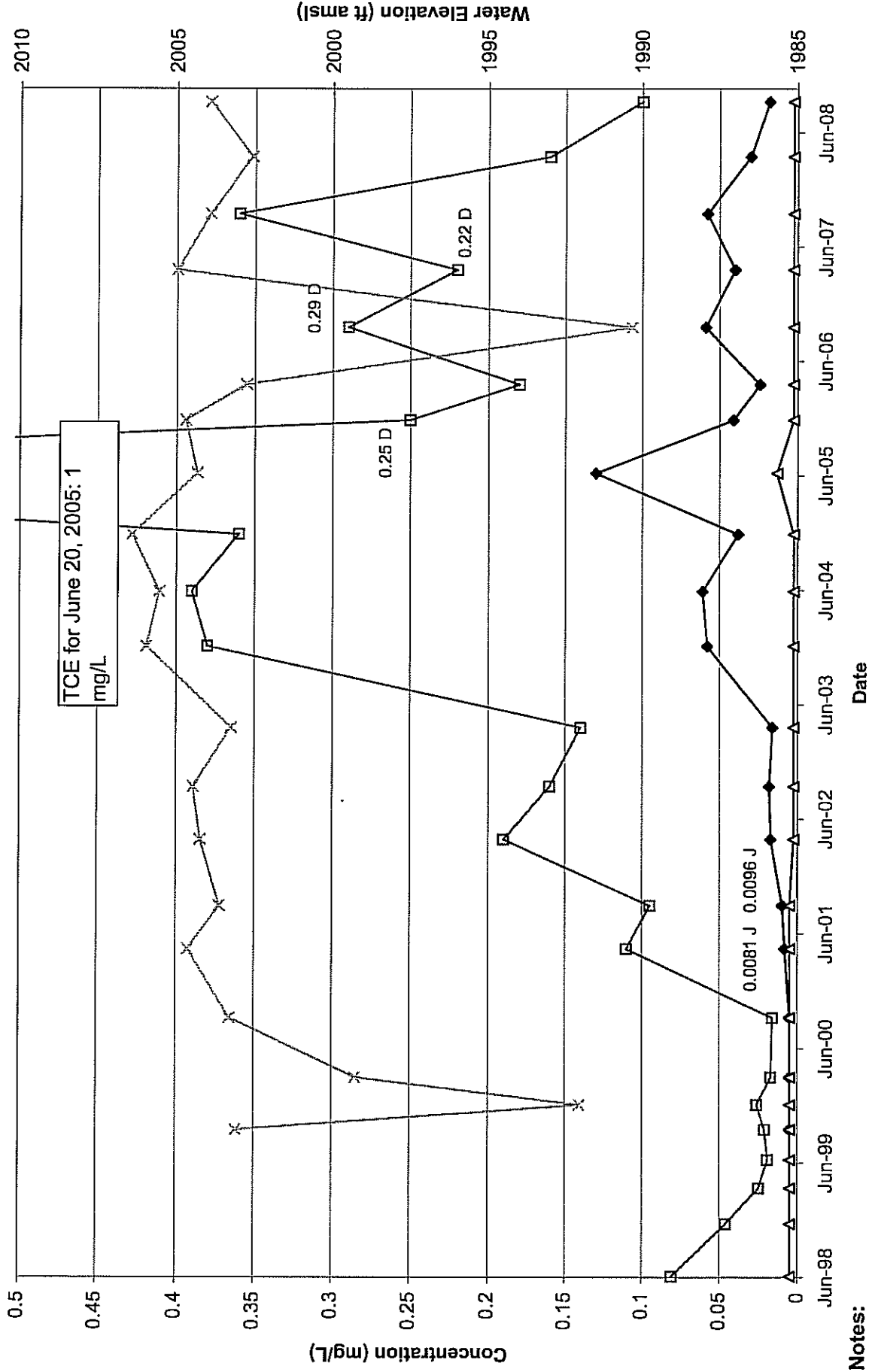
1. 1/2 detection limit used for non-detects
2. Manganese is non-detect on 4/10/2002 and 9/28/2006.
3. VOCs only collected on 9/1/2001 due to insufficient water volume.

MW-18S Metals



Note:
1. 1/2 Detection limit used for non-detects

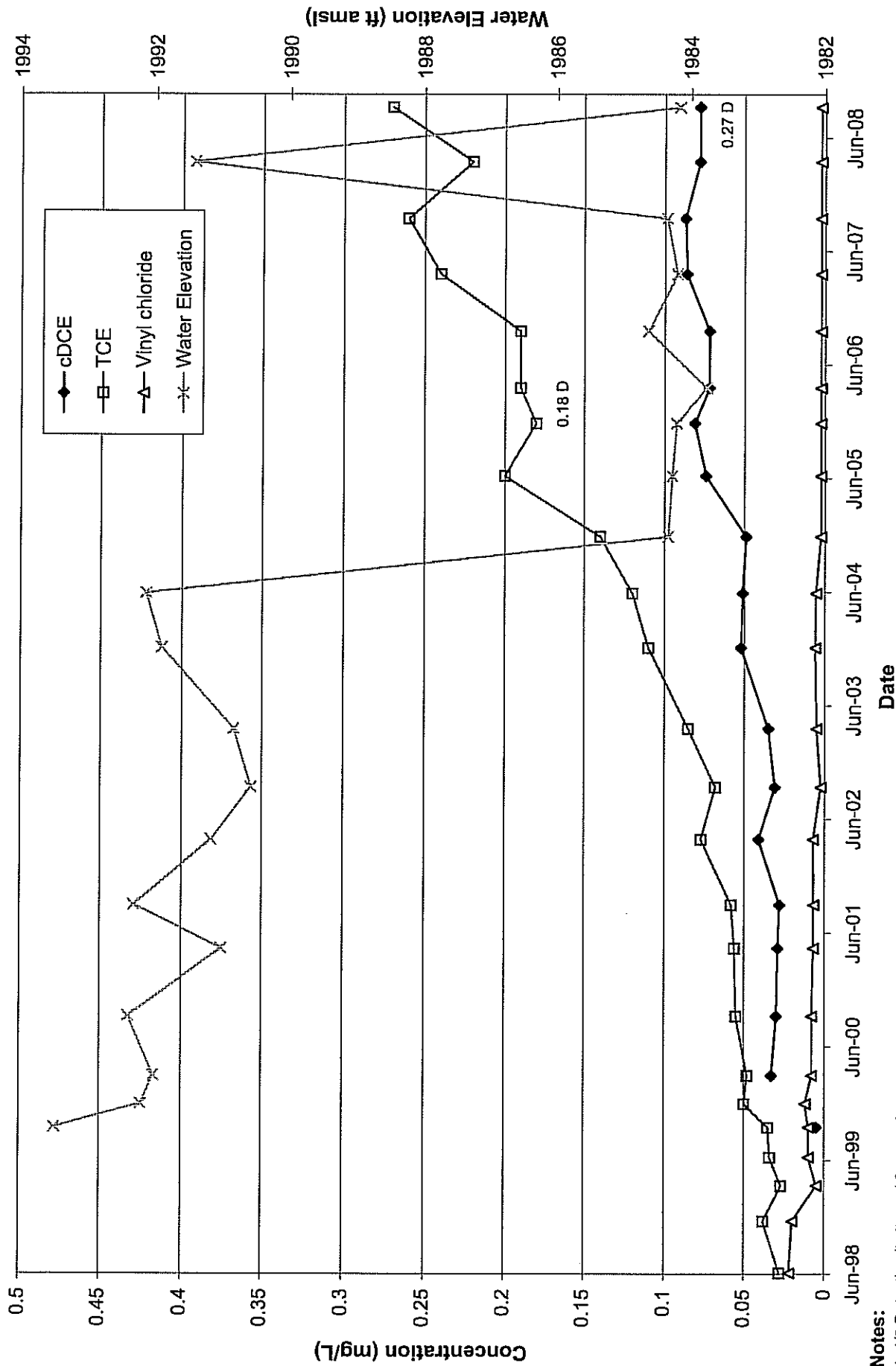
CW-3A VOCs



Notes:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- Vinyl chloride results are non-detected except in June 2005.
- Results for cis-1,2-Dichloroethene on 3/13/2000 and 9/19/2000 are non-detect and estimated on 4/26/2001 and 9/11/2001.
- D - This flag indicates a result from a diluted sample.
- Data with flag labeled on graph as appropriate.

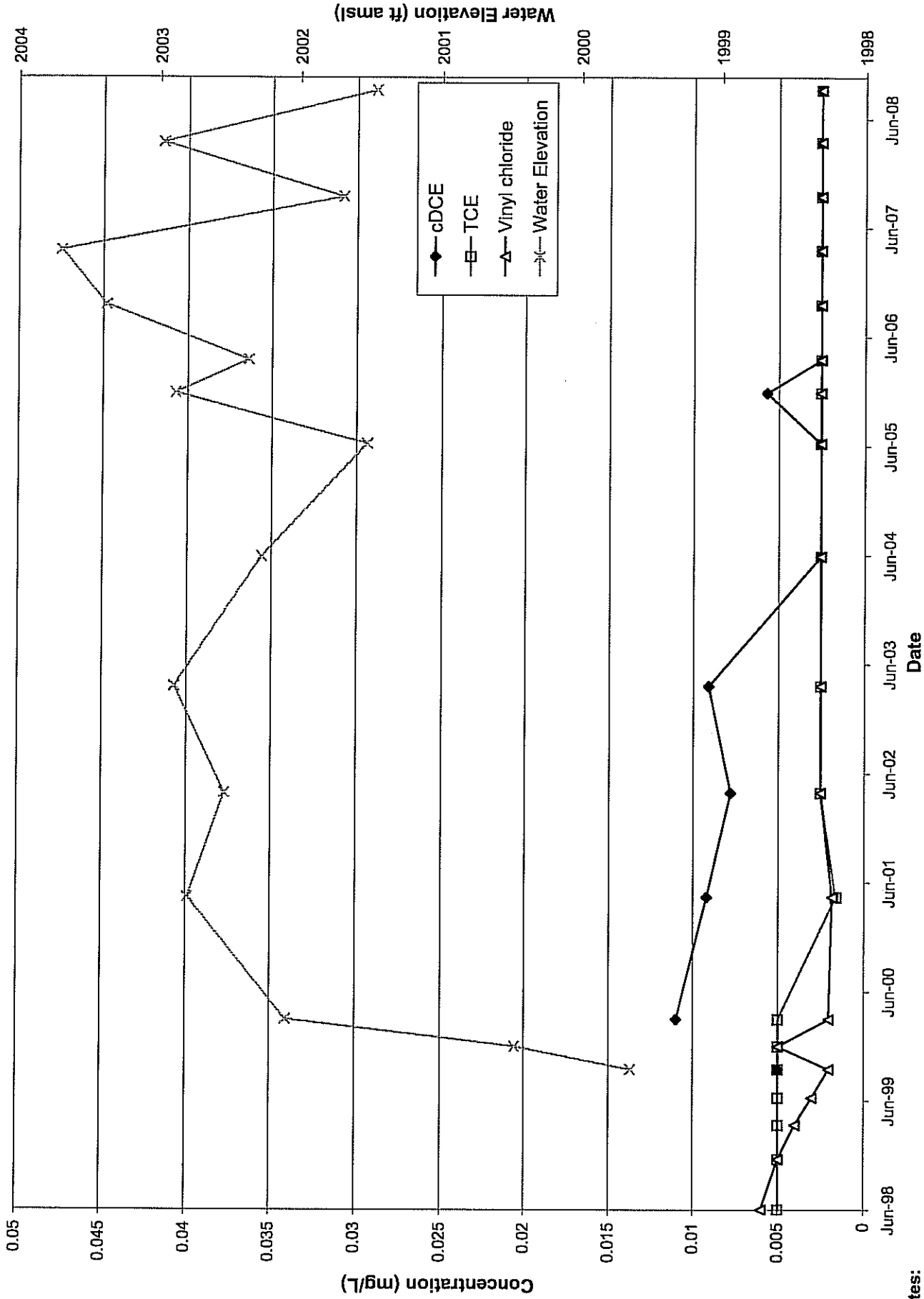
CW-3B VOCs



Notes:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- The majority of Vinyl chloride results are non-detect. Vinyl chloride results on 3/13/2000, 9/19/2000, 4/25/2001 and on 9/11/2001 are estimated values.
- Results for cDCE on 9/28/1999 are non-detect.
- D - This flag indicates a result from a diluted sample.
- Data with flag labeled on graph as appropriate.

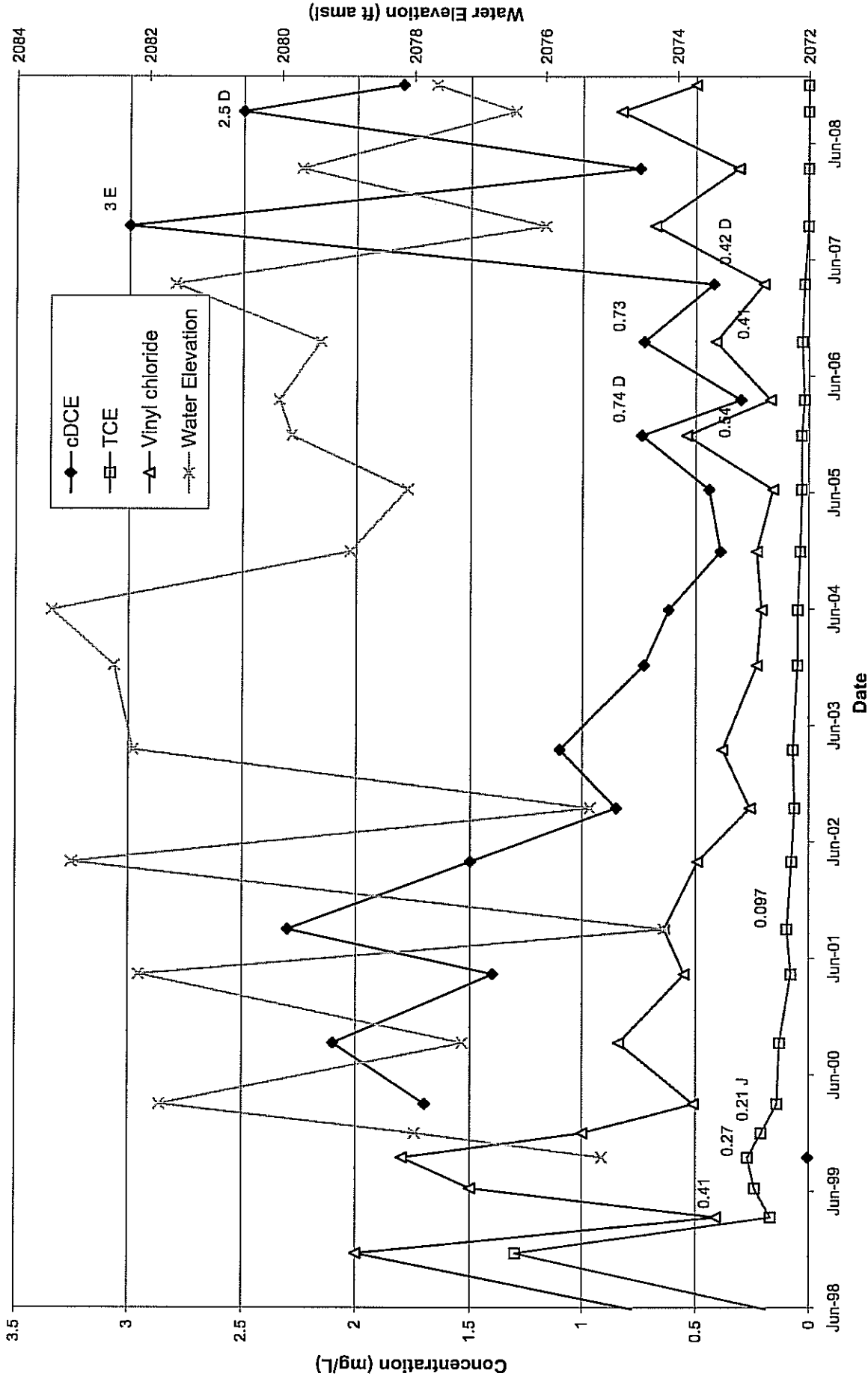
CW-4B VOCs



Notes:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- TCE and Vinyl chloride results are either non-detect or estimated values.
- A majority of cDCE results are non-detect.

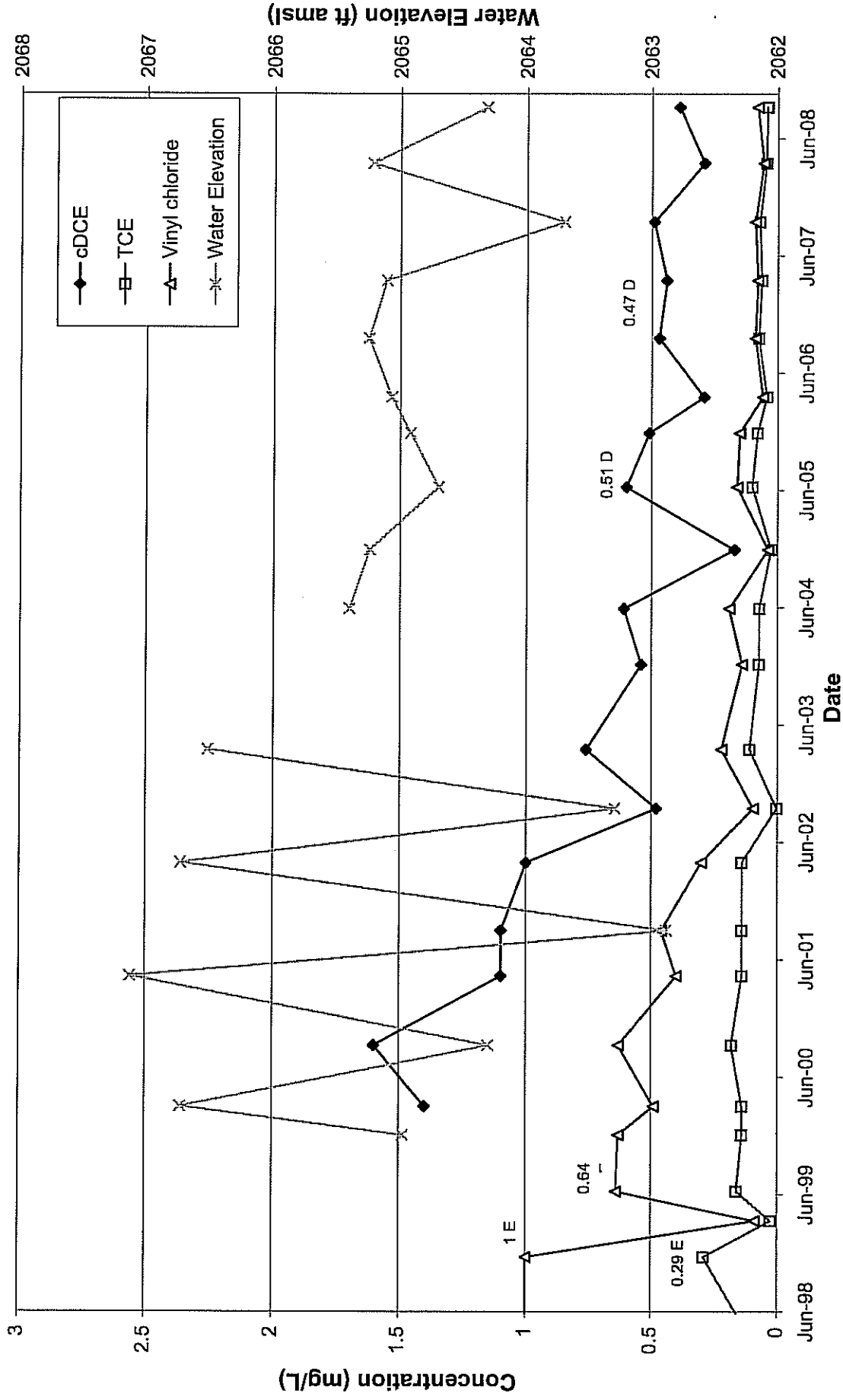
MW-4D VOCs



NOTES:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- E - Results are greater than the calibration range of the instrument used for analysis
- J - Estimated value.
- D - This flag indicates a result from a diluted sample.
- TCE is non-detect on 9/25/2007 and 3/24/2008.
- Data with flag labeled on graph as appropriate.

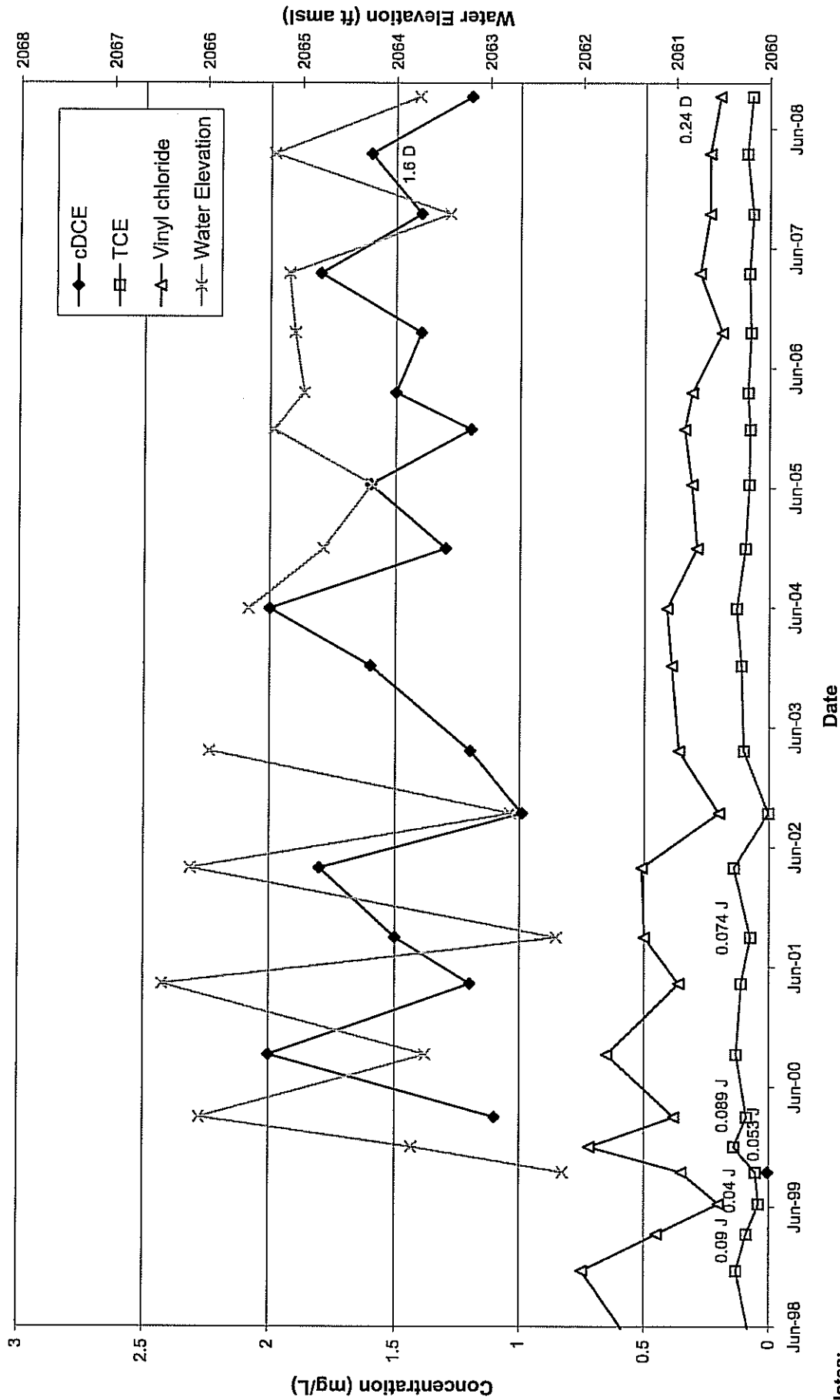
MW-5S VOCs



Notes:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- TCE result on 9/26/2002 is non-detect.
- E - Results are greater than the calibration range of the instrument used for analysis.
- D - This flag indicates a result from a diluted sample.
- Data with flag labeled on graph as appropriate.
- No water elevation available for December 2003.

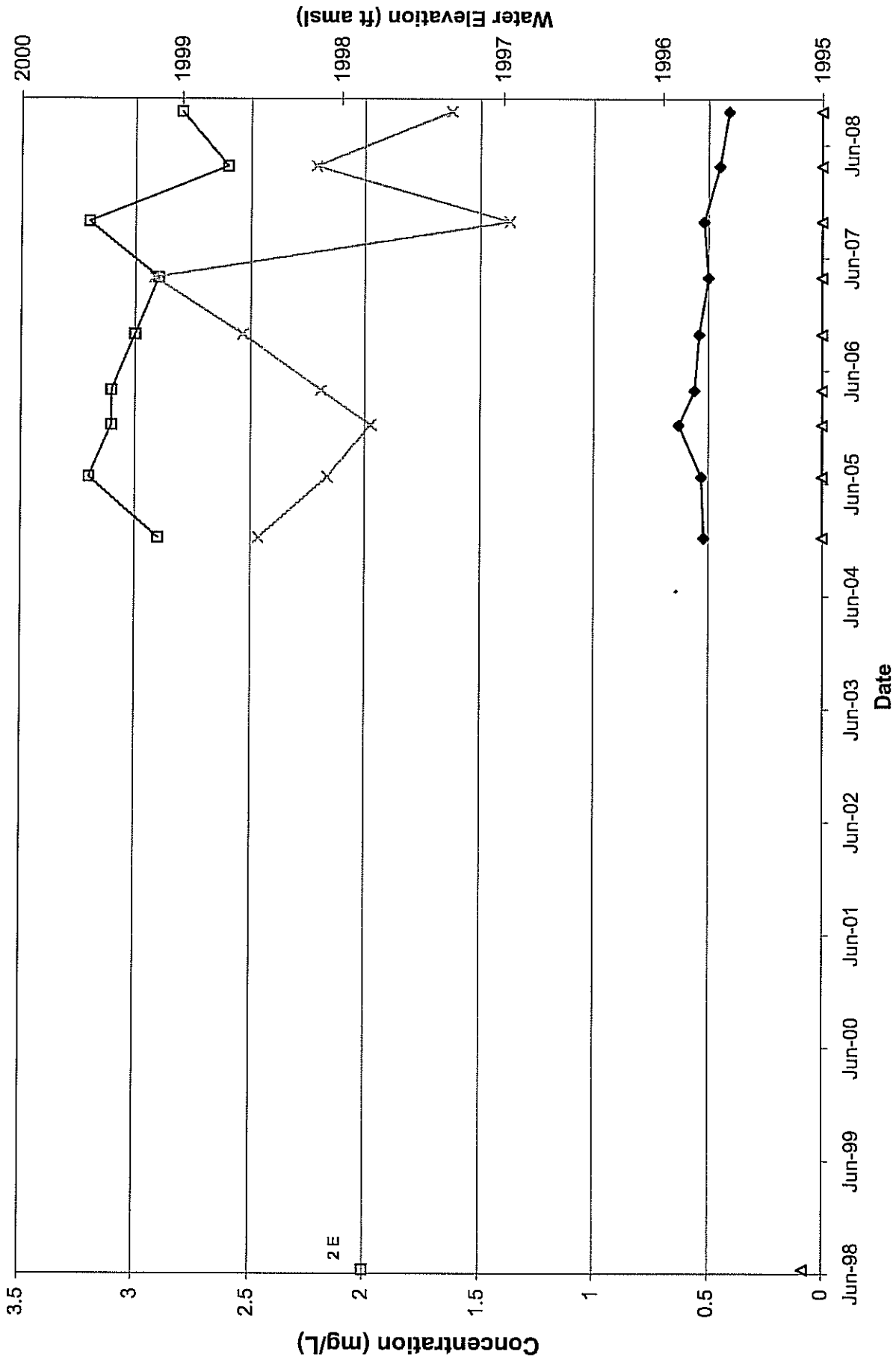
MW-5D VOCs



Notes:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- TCE results on 6/9/1998, 9/23/1999, 6/23/1999, 9/28/1999, 3/14/2000 and 9/12/2001 are estimated values.
- Result for cDCE on 9/28/1999 is non-detect.
- J - Estimated values.
- D - This flag indicates a result from a diluted sample.
- Data with flag labeled on graph as appropriate.
- No water elevation available December 2003.

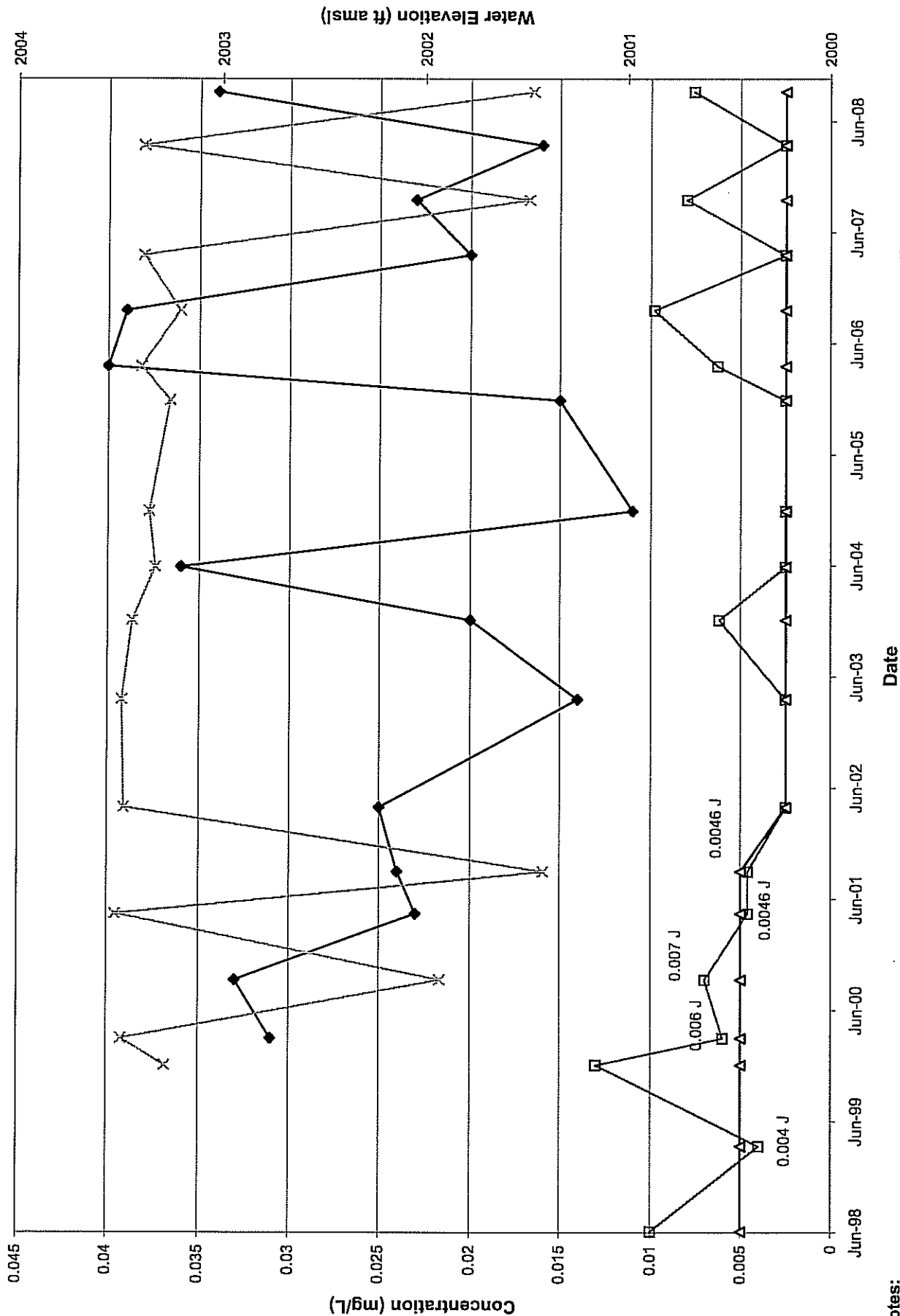
MW-11S VOCs



NOTES:

1. 1/2 Detection limit used for non-detects.
2. Refer to Table B-1 (following graphs) for analytical results used in graphs.
3. E - Results are greater than the calibration range to the instrument used for analysis.
4. Vinyl chloride results are non-detect with an exception of result on 6/17/1998.
5. Data with flag labeled on graph as appropriate.

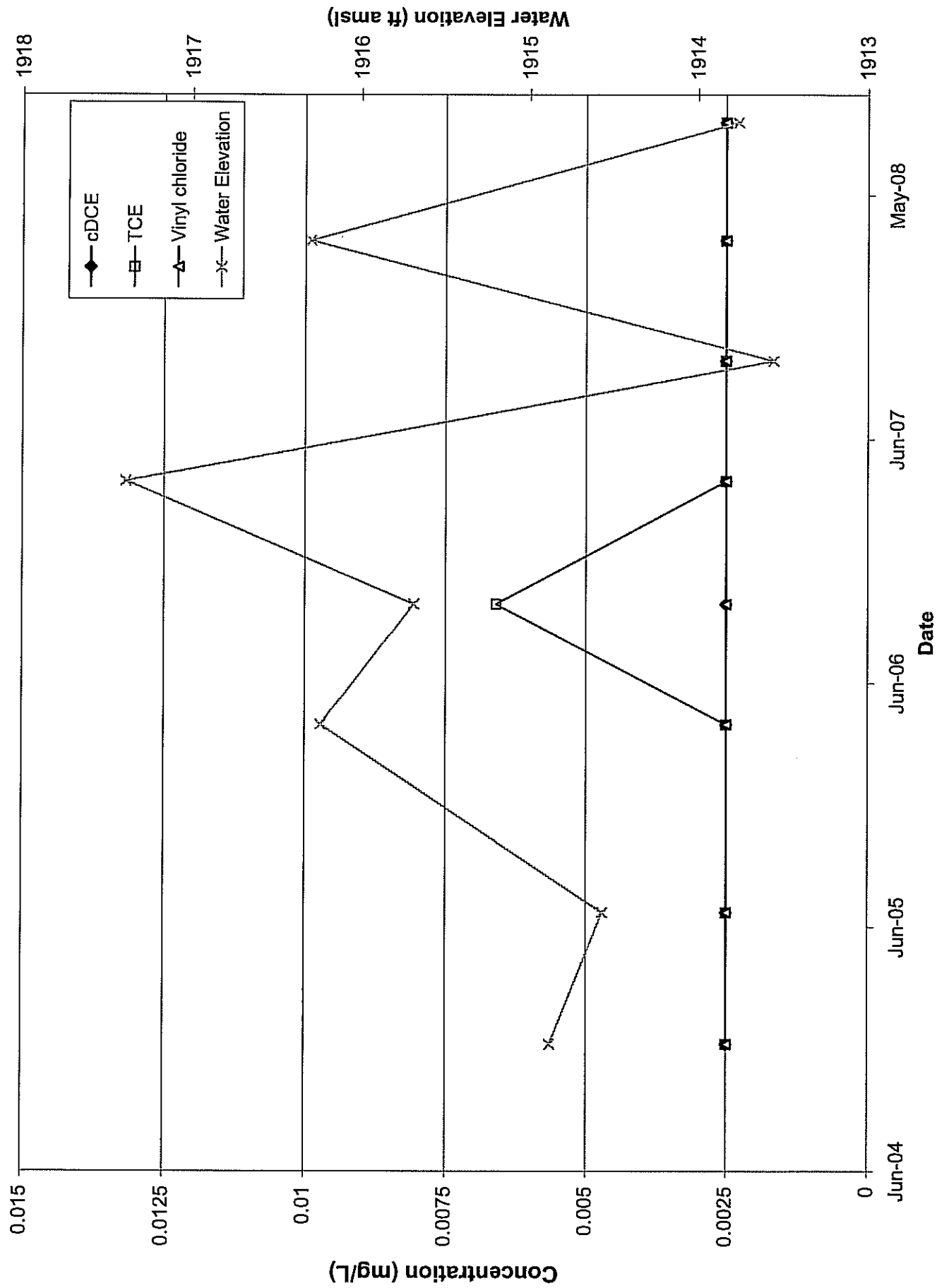
MW-15S VOCs



Notes:

- 1/2 Detection limit used for non-detects.
- Refer to Table B-1 (following graphs) for analytical results used in graphs.
- J - Estimated value.
- All Vinyl chloride and a majority of TCE results are non-detect.
- Data with flag labeled on graph as appropriate.

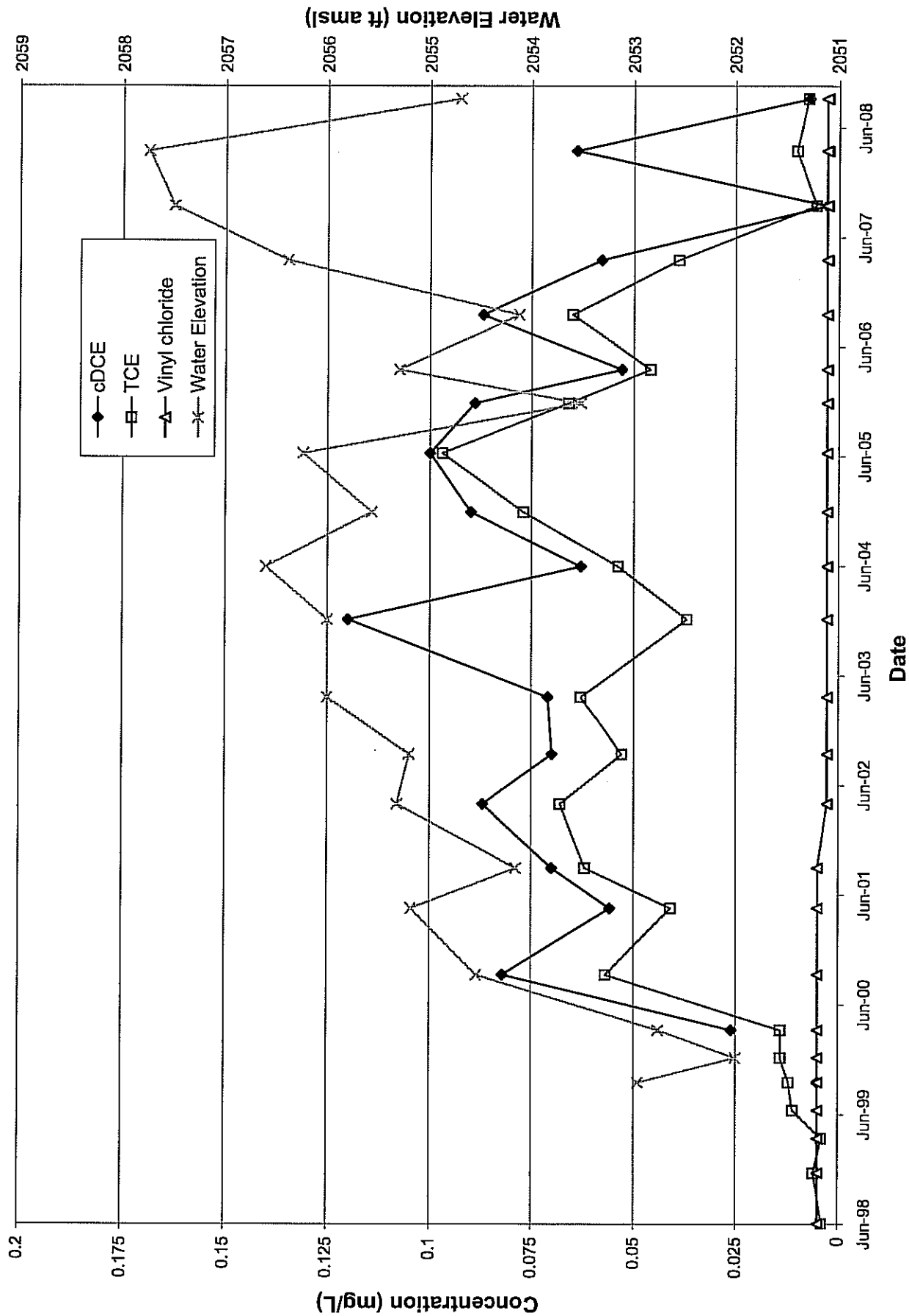
MW-16S VOCs



Notes:

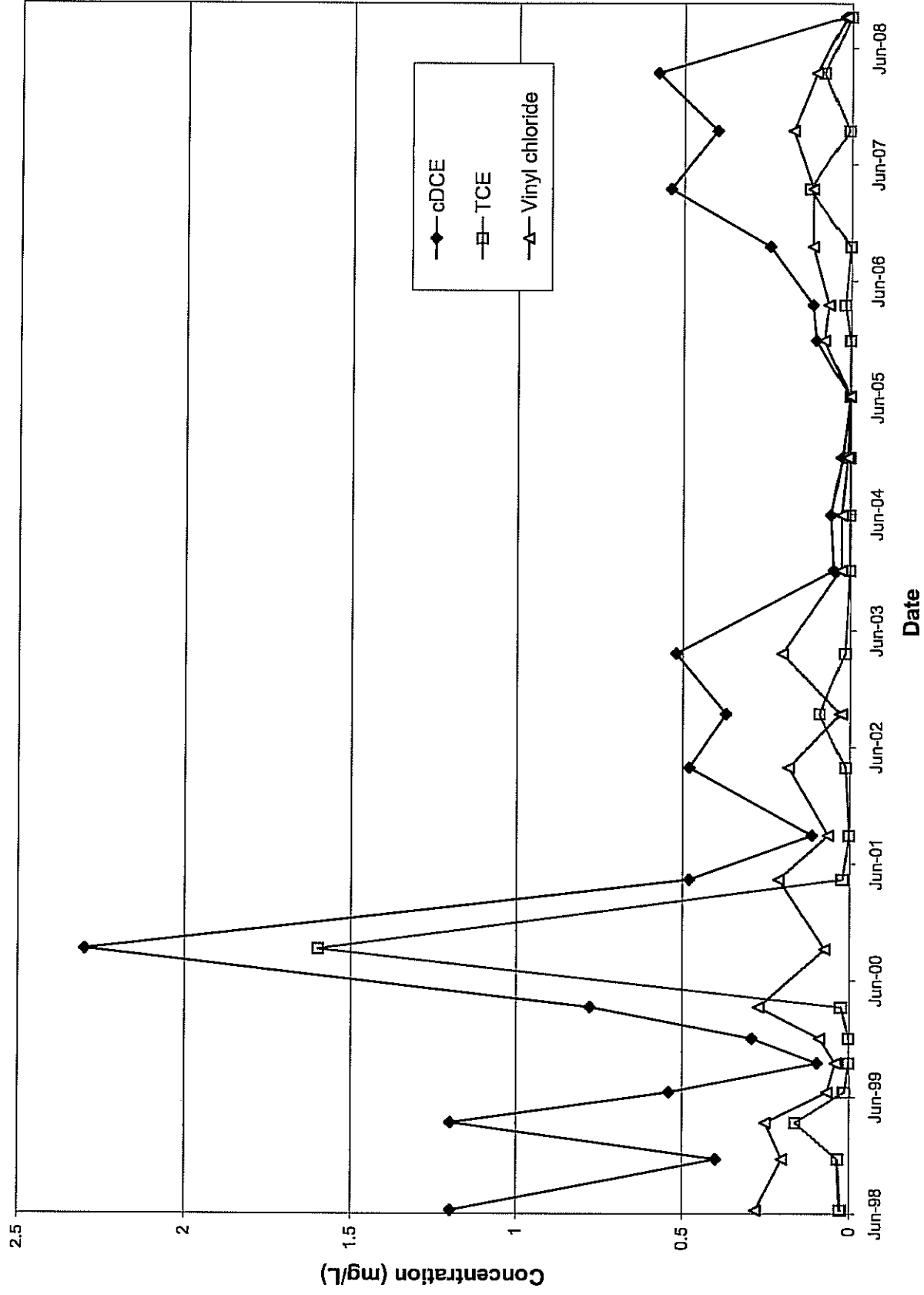
1. All values for cDCE, TCE and Vinyl chloride are non-detect with the exception of TCE on 9/27/2006.
2. There is no data available for MW-16S prior to December 2004.

MW-18S VOCs

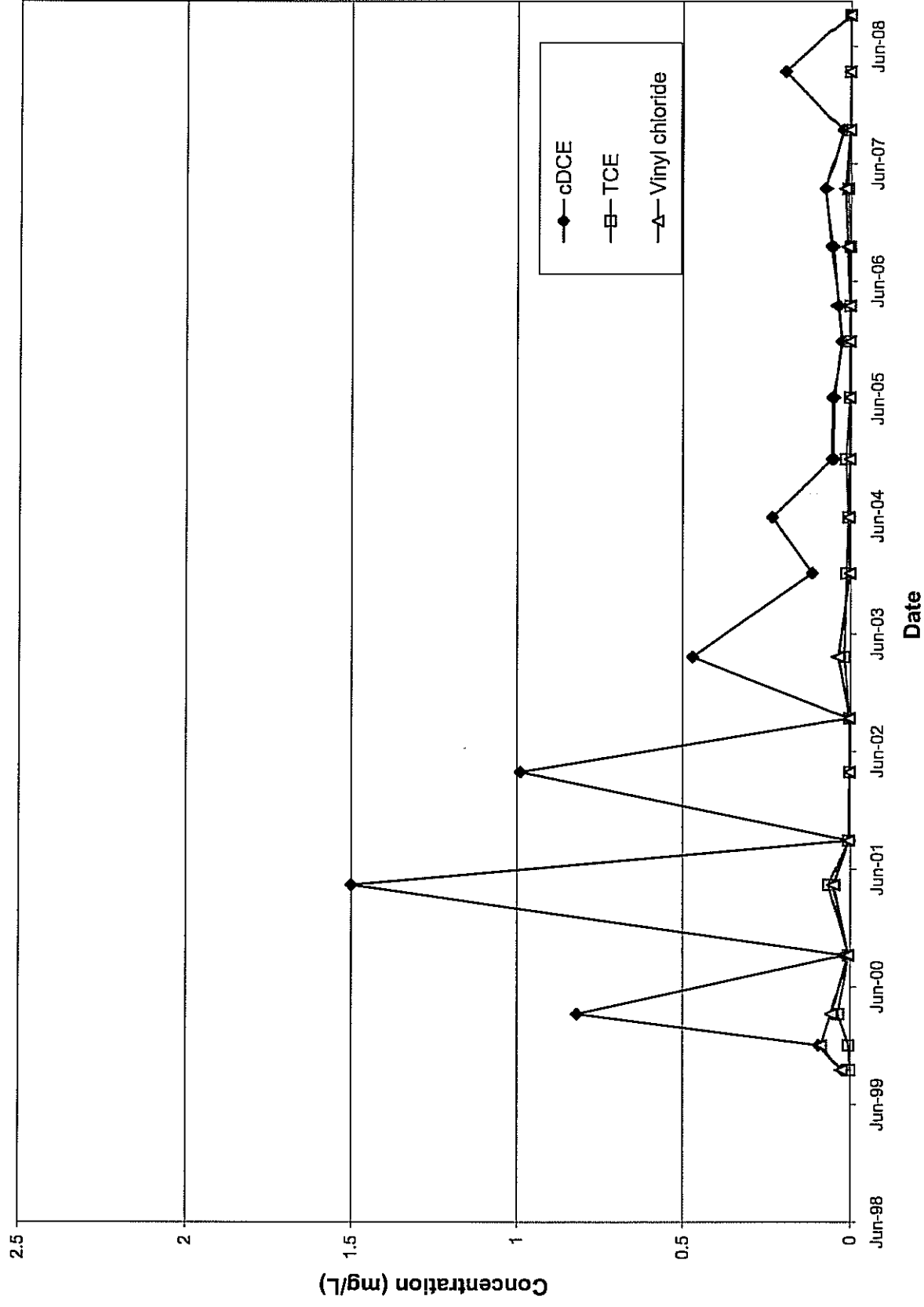


Notes:

1. 1/2 Detection limit used for non-detects.
2. Refer to Table B-1 (following graphs) for analytical results used in graphs.
3. TCE results on 6/15/1998, 12/1/1998 and 3/26/1999 are estimated values.
4. Vinyl chloride results are non-detect; cDCE is non-detect on 9/29/1999 and 9/25/2007.



Notes:
1. 1/2 Detection limit used for non-detects.



Notes:
1. 1/2 Detection limit used for non-detects.

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well CW-3A Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/17/98	12/1/98	3/25/99	6/24/99	9/29/99	12/16/99	3/13/00	9/19/00	4/26/01	9/11/01	4/10/02	9/25/02	4/7/03	12/16/03	6/8/04	12/7/04	6/20/05	12/6/05	3/30/06	9/28/06	3/30/07	9/25/07	3/25/08	9/17/08		Count "u"	Count "u"
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		Count "u"	Count "u"
Result (mg/L)	0.086	-	-	-	0.024	0.027	0.017	0.032	0.1301	0.113	0.207	0.178	0.156	0.438	0.451	0.398	1.143	0.291	0.204	0.349	0.26	0.418	0.19	0.118		203	73
0.086																										16	16
0.048																										16	6
0.03																										17	4
0.021																										17	4
0.024																										19	1
0.027																										18	1
0.017																										17	1
0.032																										17	0
0.1301																										13	2
0.113																										14	0
0.207																										8	5
0.178																										10	2
0.156																										10	1
0.438																										2	8
0.451																										2	6
0.398																										2	7
1.143																										0	2
0.291																										3	2
0.204																										1	3
0.349																										0	2
0.26																										0	2
0.418																										0	1
0.19																										0	1
																										Total "u"	73

S = Total Number of "u" minus Total Number of "n" = 130 STEP 4. a) Critical Value: From Table A-2, $z_{\alpha/2}$ (critical value at 5% significance level) = 1.645STEP 1. Null Hypothesis: H_0 : There is no trend. STEP 4. b) Probability Value: p -value = $(P(Z > z_\alpha) = 1 - z_\alpha)$ where z_α from Table A-1 = 0.9993 p -value = 0.0007STEP 2. Alternative Hypothesis: H_A : There is an upward trend.STEP 5. a) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 ifabsolute value of z_α is $> z_{\alpha/2}$ Since absolute value $z_\alpha = 3.1998 > 1.645$

we reject the null hypothesis of no trend

STEP 5. b) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p -value is less than significance level = 0.05.Since p -value = 0.0007 < 0.05

we reject the null hypothesis of no trend

Therefore: We reject the null hypothesis of no trend in favor of the alternative hypothesis (i.e. evidence of upward trend).

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well CW-3B Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/17/98	12/1/98	3/25/99	6/24/99	9/28/99	12/13/99	3/13/00	9/19/00	4/25/01	9/11/01	4/9/02	9/24/02	3/31/03	12/16/03	6/8/04	12/7/04	6/20/05	12/6/05	3/30/06	9/28/06	3/30/07	9/25/07	3/25/08	9/17/08		
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Result (mg/L)	0.104	0.094	0.054	0.085	0.08	0.116	0.091	0.093	0.0939	0.0947	0.1251	0.099	0.1251	0.168	0.1765	0.189	0.274	0.537	0.262	0.262	0.326	0.347	0.298	0.348	Count "+"	
Count "-"	14	16	21	0	19	0	13	17	0	15	0	14	11	11	10	9	8	5	2	0	4	0	1	1	0	
S = Total Number of "+" minus Total Number of "-" =	210	STEP 4. a) Critical Value: From Table A-2, z _{α/25} (critical value at 5% significance level) = -1.645																							242	32

S = Total Number of "+" minus Total Number of "-" = 210 STEP 4. a) Critical Value: From Table A-2, $z_{0.05}$ (critical value at 5% significance level) = 1.645STEP 1. Null Hypothesis: H_0 : There is no trend. STEP 4. b) Probability Value: $p\text{-value} = (P(Z > z_0) = 1 - z_p$, where z_p from Table A-1 = 0.9999 (off scale) $p\text{-value} = 0.0001$ STEP 2. Alternative Hypothesis: H_A : There is an upward trend.

STEP 5. a) Conclusion:

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 ifabsolute value of z_0 is $> z_{0.05}$ Since absolute value $z_0 = 5.1873 > 1.645$

we reject the null hypothesis of no trend

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if $p\text{-value}$

is less than significance level = 0.05.

Since $p\text{-value} = 0.0001 < 0.05$

we reject the null hypothesis of no trend

Therefore: We reject the null hypothesis of no trend in favor of the alternative hypothesis (i.e. evidence of upward trend)

STEP 3. Test Statistics:

 $z_0 = S - \text{sign}(S) / \sqrt{V(S)} \times 0.5$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$ and $V(S) = 1/18(n-1)(2n+5) - [(t_1-1)(2t_1+5) + t_2(2t_2+5) + \dots \text{up to } t_g]$

Where:

 n (number of samples) = 24 t_1 = number of tied samples in the first group = 2 t_2 = number of tied samples in second group = 2 g = the number of tied sample groups $V(S) = 1623.33$ $z_0 = 5.1873$

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

1/2 detection limit used for non-detects.

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well CW-4B Total VOCs

COMPUTATIONS: Compute Statistic (S).

[illegible]

S = Total Number of "+" minus Total Number of "-" = -95

STEP 1. Null Hypothesis:

STEP 2. Alternative Hypothesis:

STEP 3. Test Statistics:

$$z_0 = S - \text{sign}(S) / V(S)^{0.5} \quad \text{Where: } \text{sign}(S) = 1 \text{ if } S > 0, 0 \text{ if } S = 0, \text{ and } -1 \text{ if } S < 0$$

$$\text{and } V(S) = 1/18[n(n-1)(2n+5) - \{1, (1-1)(2l_1+5) + \{2, (1_2-1)(2l_2+5) + \dots \text{ up to } l_n\}]$$

Where: n (number of samples) = 19

 t_1 = number of tied samples in the first group = 9 t_2 = number of tied samples in second group = 0 q = the number of tied sample groups
$$V(S) = 725.00$$
$$z_0 = -3.4911$$

Therefore:

level (i.e. there is evidence of a downward trend but not enough to over rule no trend)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-4D Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/9/98	12/1/98	3/24/99	6/23/99	9/28/99	12/13/99	3/14/00	9/21/00	4/24/01	9/12/01	4/11/02	9/26/02	3/28/03	12/18/03	6/9/04	12/9/04	5/21/05	12/7/05	3/29/06	9/27/06	3/27/07	9/25/07	3/24/08	9/16/08	12/11/08	Count "+"	Count "-"
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Count "+"	Count "-"
Result (mg/L)	1.83	15.3	1.784	6.774	11.25	6.81	2.35	3.07	2.0401	3.037	2.067	1.173	3.012	1.011	0.88	0.659	1.317	1.312	0.503	1.17	0.651	3.68	1.05	3.33	2.3	13	11
	1.83	15.3	-	-	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	+	-	+	+	0	23
	1.784	1.784	-	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	+	+	-	+	+	12	10
	6.774	6.774	-	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	19
	11.25	11.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	20
	6.81	6.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	19
	2.35	2.35	-	-	-	-	-	+	-	+	-	-	+	-	-	-	-	-	-	-	+	+	-	+	+	5	13
	3.07	3.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	2	15
	2.0401	2.0401	-	-	-	-	-	-	-	+	-	-	+	-	-	-	-	-	-	-	+	+	-	+	+	8	10
	3.037	3.037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	2	13
	2.067	2.067	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	4	10
	1.173	1.173	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	6	7
	3.012	3.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	2	10
	1.011	1.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	7	4
	0.88	0.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	7	3
	0.659	0.659	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	7	2
	1.317	1.317	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	3	5
	1.312	1.312	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	3	4
	0.503	0.503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	6	0
	1.17	1.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	3	2
	0.651	0.651	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	4	0
	3.68	3.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	3	2
	1.06	1.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	4	0
	3.33	3.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	+	+	2	0
																										75	189
																										Total "+"	Total "-"

S = Total Number of "+" minus Total Number of "-" = -114 STEP 4. a) Critical Value: From Table A-2, $z_{0.05}$ (critical value at 5% significance level) = 1.645STEP 1. Null Hypothesis: H_0 : There is no trend. p-value = $P(Z > z_0) = 1 - z_0$, where z_0 from Table A-1 = 0.0041
STEP 2. Alternate Hypothesis: H_A : There is a downward trend. p-value = 0.9959STEP 3. Test Statistics: Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$
 $z_0 = S - \text{sign}(S) / \sqrt{V(S)}$ and $V(S) = 1/18(n-1)(2n+5) - [t_1(t_1-1)(2n+5) + t_2(t_2-1)(2n+5) + \dots + t_g(t_g-1)(2n+5)]$
Where: n (number of samples) = 25
 t_1 = number of tied samples in the first group = 0
 t_2 = number of tied samples in second group = 0
 g = the number of tied sample groupsSTEP 4. b) Probability Value: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of z_0 is $> z_{0.05}$
Since absolute value $z_0 = 2.6391 > 1.645$
we reject the null hypothesis of no trend
STEP 5. a) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p-value is less than significance level = 0.05.
Since p-value = 0.9959 > 0.05
we fail to reject the null hypothesis of no trend
STEP 5. b) Conclusion: Therefore: We fail to reject the null hypothesis of no trend at the 5% significance level (i.e. there is evidence of a downward trend but not enough to over rule no trend)

References: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-5D Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/9/98	12/1/98	3/23/99	6/23/99	9/26/99	12/14/99	3/14/00	9/20/00	4/24/01	9/12/01	4/11/02	9/25/02	4/2/03	12/18/03	6/9/04	12/9/04	6/22/05	12/7/05	3/29/06	9/28/06	3/27/07	9/25/07	3/26/08	9/17/08	Count "u"	Count "s"
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Result (mg/L)	2.484	2.484	2.98	1.74	1.166	1.84	3.134	1.581	2.78	1.7073	4.4528	4.9869	1.19	1.66	2.1	2.5814	1.686	1.991	1.618	1.897	1.665	2.161	1.706	1.945	1.469	
2.484	+	+	-	-	-	+	-	+	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	6	17
2.98			-	-	-	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	19
1.74			-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	11	10
1.166				+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	0
1.84						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	9
3.134							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	16
1.581								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15	2
2.78											+	+	+	+	+	+	+	+	+	+	+	+	+	+	8	14
1.7073											+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	13
4.4528																									12	0
4.9869																									9	2
1.19																									2	8
1.66																									5	9
2.1																									1	3
2.5814																									0	13
1.686																									12	0
1.991																									2	9
1.618																									2	8
1.897																									5	9
1.665																									5	3
2.161																									5	3
1.706																									2	3
1.945																									0	1
																									1	1
																									0	1
																									118	158
																									Total "u"	Total "s"

S = Total Number of "u" minus Total Number of "s" = -40 STEP 4. a) Critical Value: From Table A-2, $z_{0.05}$ (critical value at 5% significance level) = 1.645STEP 1. Null Hypothesis: H_0 : There is no trend. STEP 4. b) Probability Value: p -value = $(P(Z > z_0) = 1 - z_0)$, where z_0 from Table A-1 = 0.165 p -value = 0.8350STEP 2. Alternative Hypothesis: H_A : There is a downward trend.STEP 5. a) Conclusion: For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 ifabsolute value of z_0 is $> z_{0.05}$ Since absolute value $z_0 = 0.9674 < 1.645$

we fail to reject the null hypothesis of no trend

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p -value is less than significance level = 0.05.Since p -value = 0.8350 > 0.05

we fail to reject the null hypothesis of no trend

Therefore: We fail to reject the null hypothesis of no trend (i.e. No trend / stable)

STEP 3. Test Statistics:

 $z_0 = S - \text{sign}(S) / \sqrt{V(S)} \times 0.5$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$ and $V(S) = 1/18(n-1)(2n+5) - [t_1(1+5) + t_2(1+5) + \dots + t_g(1+5)]$

Where:

 n (number of samples) = 24 t_1 = number of tied samples in the first group = 0 t_2 = number of tied samples in second group = 0 g = the number of tied sample groups $V(S) = 1625.33$ $z_0 = -0.9674$

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2008

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-5S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/9/98	12/1/98	3/24/99	6/23/99	12/16/99	3/14/00	9/20/00	4/23/01	9/12/01	4/11/02	9/26/02	3/28/03	12/18/03	6/9/04	12/9/04	6/22/05	12/7/05	3/29/06	9/28/06	3/27/07	9/25/07	3/26/08	9/17/08	Count "+"	Count "-"
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Count "+"	Count "-"
Result (mg/L)	3.06	4.796	0.116	2.413	5.14	2.03	2.41	1.6543	1.7	1.44	0.575	1.09	0.753	0.872	0.233	0.86	0.74	0.391	0.634	1.118	0.651	0.391	0.512	56	196
3.06	+																							2	20
4.796		+																						1	20
0.116			+																					20	0
2.413				+																				1	18
5.14																								0	16
2.03																								1	16
2.41																								0	16
1.6543																								0	14
1.7																								0	14
1.44																								0	13
0.575																								8	4
1.09																								1	10
0.753																								3	7
0.872																								1	8
0.233																								8	0
0.86																								1	6
0.74																								4	2
0.391																								4	2
0.634																								0	2
1.118																								2	3
0.651																								0	2
0.391																								1	0
S = Total Number of "+" minus Total Number of "-" =	-140																							56	196

From Table A-2, $Z_{0.05}$ (critical value at 5% significance level) = 1.645

STEP 1. Null Hypothesis: H_0 : There is no trend. p-value = $(P(Z > z_a) = 1 - z_p)$, where z_p from Table A-1 = 0.0001 (off scale)

p-value = 0.9999

STEP 2. Alternative Hypothesis: H_A : There is a downward trend.

STEP 3. Test Statistics: $Z_a = S - \text{sign}(S) / \sqrt{V(S)}$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$

and $V(S) = 1/18(n(n-1)(2n+5) - (t_1(1-t_1)(2t_1+5) + t_2(1-t_2)(2t_2+5) + \dots \text{up to } t_g))$

Where: n (number of samples) = 23

t_1 = number of tied samples in the first group = 2

t_2 = number of tied samples in second group = 0

g = the number of tied sample groups

$V(S) = 1432.67$

$Z_a = -3.6723$

STEP 4. a) Conclusion:

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of Z_a is $> Z_{0.05}$

Since absolute value $Z_a = -3.6723 > 1.645$

we reject the null hypothesis of no trend

STEP 5. b) Conclusion:

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p-value is less than significance level = 0.05.

Since p-value = 0.9999 > 0.05

we fail to reject the null hypothesis of no trend

Therefore: We fail to reject the null hypothesis of no trend at the 5% significance level (i.e. there is evidence of a downward trend but not enough to over rule no trend)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-11S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date Event	6/17/98	12/8/04	12/23/05	12/8/05	3/31/06	9/27/06	3/30/07	9/26/07	3/24/08	9/17/08	
Result (mg/L)	2.752	3.42	3.73	3.73	3.66	3.54	3.4	3.72	3.05	3.21	Count "+"
2.752		+	+	+	+	+	+	+	+	+	Count "-"
3.42		+	+	+	+	+	-	+	+	+	0
3.73				0	-	-	-	-	-	-	5
3.73					-	-	-	-	-	-	3
3.66					-	-	-	-	-	-	0
3.54						-	-	+	-	-	0
3.4							-	+	-	-	1
3.72								+	-	-	1
3.05									-	+	1
											18
											26

S = Total Number of "+" minus Total Number of "-" = -8

STEP 4. a) Critical Value:

From Table A-2, $z_{0.95}$ (critical value at 5% significance level) = 1.645

STEP 1. Null Hypothesis:

H_0 : There is no trend.

STEP 4. b) Probability Value:

p-value = $(P(Z > z_0)) = 1 - z_{0.95}$ where z_0 from Table A-1 = 0.2648

STEP 2. Alternative Hypothesis:

H_A : There is a downward trend.

STEP 3. Test Statistics:

$z_0 = S - \text{sign}(S) / \sqrt{V(S)}$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$
and $V(S) = 1/18(n(n-1)(2n+5) - [t_1(t_1-1)(2t_1+5) + t_2(t_2-1)(2t_2+5) + \dots \text{up to } t_g])$

Where:

n (number of samples) = 10

t_1 = number of tied samples in the first group = 2

t_2 = number of tied samples in second group = 0

g = the number of tied sample groups

$V(S) = 124.00$

$z_0 = -0.6286$

STEP 5. a) Conclusion:

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of z_0 is $> z_{0.95}$

Since absolute value $z_0 = 0.6286 < 1.645$

we fail to reject the null hypothesis of no trend

STEP 5. b) Conclusion:

For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if p-value is less than significance level = 0.05.

Since p-value = 0.7352 > 0.05

we fail to reject the null hypothesis of no trend

Therefore: We fail to reject the null hypothesis of no trend (i.e. No trend / stable)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-15S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/17/98	3/25/99	12/16/99	3/13/00	4/26/01	9/11/01	4/10/02	3/31/03	12/16/03	6/8/04	12/8/04	12/7/05	3/30/06	9/28/06	3/29/07	9/26/07	3/24/08	9/16/08	9/17/08		
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Result (mg/L)	0.103	0.027	0.073	0.037	0.04	0.0276	0.0286	0.025	0.014	0.0262	0.036	0.011	0.015	0.0463	0.0488	0.02	0.031	0.016	0.0416	0.0416	
Count "+"	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Count "-"	19	7	11	17	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Total "+"	0	11	17	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Total "-"	19	7	11	17	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Total	19	18	28	28	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

S = Total Number of "+" minus Total Number of "-" = -23

STEP 1. Null Hypothesis:

H_0 : There is no trend.

STEP 2. Alternative Hypothesis:

H_A : There is a downward trend.

STEP 3. Test Statistics:

$Z_a = S - \text{sign}(S) / \sqrt{V(S)}$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$
and $V(S) = 1/18(n-1)(2n+5) - [(t_1-1)(2t_1+5) + (t_2-1)(2t_2+5) + \dots \text{up to } t_q]$

Where:

n (number of samples) = 20

t_1 = number of tied samples in the first group = 2

t_2 = number of tied samples in second group = 0

g = the number of tied sample groups

$V(S) = 949.00$

$Z_a = -0.7142$

Therefore:

We fail to reject the null hypothesis of no trend (i.e. No trend / stable)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 1

Statistical Analysis of Groundwater Data (1998-2008)
Wellsville/Andover Landfill
Wellsville, New York

Monitoring Well MW-18S Total VOCs

COMPUTATIONS: Compute Statistic (S).

Date	6/15/98	12/1/98	3/26/99	6/28/99	9/29/99	12/20/99	3/21/00	6/21/00	9/21/00	12/1/01	4/12/02	9/25/02	4/3/03	12/17/03	6/11/04	12/9/04	6/23/05	12/6/05	3/28/06	9/27/06	3/28/07	9/25/07	3/26/08	9/16/08		
Event	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Result (mg/L)	0.024	0.026	0.018	0.038	0.04	0.049	0.087	0.139	0.097	0.132	0.155	0.123	0.134	0.157	0.117	0.167	0.197	0.155	0.099	0.152	0.097	0.0052	0.074	0.0141	Count "+"	Count "-"
	0.024	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	3
	0.026			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19	3
	0.018			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19	2
	0.038				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	18	2
	0.04					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	17	2
	0.049						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	16	2
	0.087							+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	14	3
	0.139								+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	6	10
	0.097									+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	11	3
	0.132										+	+	+	+	+	+	+	+	+	+	+	+	+	+	7	7
	0.155											+	+	+	+	+	+	+	+	+	+	+	+	+	3	9
	0.123												+	+	+	+	+	+	+	+	+	+	+	+	6	6
	0.134													+	+	+	+	+	+	+	+	+	+	+	5	6
	0.157														+	+	+	+	+	+	+	+	+	+	2	8
	0.117															+	+	+	+	+	+	+	+	+	4	5
	0.167																+	+	+	+	+	+	+	+	1	7
	0.197																	+	+	+	+	+	+	+	0	7
	0.155																		+	+	+	+	+	+	0	6
	0.099																			+	+	+	+	+	1	4
	0.152																				+	+	+	+	0	3
	0.097																					+	+	+	0	0
	0.0052																						+	+	2	0
	0.074																							+	0	1
																									Total "+"	Total "-"
																									171	103

S = Total Number of "+" minus Total Number of "-" = 68 STEP 4. a) Critical Value: From Table A-2, $z_{0.95}$ (critical value at 5% significance level) = 1.645STEP 1. Null Hypothesis: H_0 : There is no trend. STEP 4. b) Probability Value: $p\text{-value} = (P(Z > z_0)) = 1 - z_{p_0}$ where z_p from Table A-1 = 0.9518
 $p\text{-value} = 0.0482$ STEP 2. Alternative Hypothesis: H_A : There is an upward trend.STEP 3. Test Statistics: $z_0 = S - \text{sign}(S) / \sqrt{V(S)}$ Where: $\text{sign}(S) = 1$ if $S > 0$, 0 if $S = 0$, and -1 if $S < 0$
and $V(S) = 1/18(n-1)(2n+5) - [t_1(t_1-1)(2t_1+5) + t_2(t_2-1)(2t_2+5) + \dots \text{up to } t_g]$
Where: n (number of samples) = 24
 t_1 = number of tied samples in the first group = 2
 t_2 = number of tied samples in second group = 2
 g = the number of tied sample groups $V(S) = 1623.33$
 $z_0 = 1.6629$
For testing the hypothesis, H_0 (no trend) against H_A - reject H_0 if absolute value of z_0 is $> z_{0.95}$
Since absolute value $z_0 = 1.6629 > 1.645$
we reject the null hypothesis of no trend

Therefore: We reject the null hypothesis of no trend in favor of the alternative hypothesis (i.e. evidence of upward trend)

Reference: USEPA Data Quality Assessment: Statistical Methods for Practitioner EPA QA/G-9S, dated February 2006

Table 2

**2009 Proposed Monitoring Program
Wellsville/Andover Landfill**

Location	Current Sampling Frequency	Proposed Sampling Frequency	Proposed Analyte List ¹

Groundwater

CW-3A	Semiannual	NR	NR
CW-3B	Semiannual	Annual - Fall	Field, VOCs, Metals
CW-4A	Annual	NR	NR
CW-4B	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-15DA	Semiannual	NR	NR
MW-15S	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-17D	Annual	Annual - Fall	Field, VOCs, Metals
MW-17S	Annual	Annual - Fall	Field, VOCs, Metals
MW-18D	Annual	Annual - Fall	Field, VOCs, Metals
MW-18S	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-1D	Annual	NR	NR
MW-3D	Annual	Annual - Fall	Field, VOCs, Metals
MW-3S	Annual	Annual - Fall	Field, VOCs, Metals
MW-4D	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-5D	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-5S	Semiannual	Annual - Fall	Field, VOCs, Metals
MW-11S	Semiannual	Annual - Fall	VOCs
MW-16S	Semiannual	Annual - Fall	VOCs

Surface Water

SWS-1	Annual	Annual	Field, VOCs, Metals, Wet Chem

Sediment

SWS-1	Annual	NR	NR

Groundwater Cut-Off System

MH-32	Semiannual	Annual - Fall	Field, VOCs, Metals, Wet Chem
MH-33	Semiannual	Annual - Fall	Field, VOCs, Metals, Wet Chem

Leachate

LS-1	Semiannual	Annual - Fall	Field, VOCs, Metals

Notes

NR = Not required unless site conditions warrant (i.e., significant leachate breakout, leachate spill, etc.)

¹ - Field = Field Parameters (pH, Conductivity, Dissolved Oxygen, Turbidity, Oxidation Reduction Potential)

- VOCs = Volatile Organic Compounds method 8260

- Metals = As, Ba, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni, P, Se, Na, Z

- Wet Chem = Nitrate Nitrogen and Total Dissolved Solids

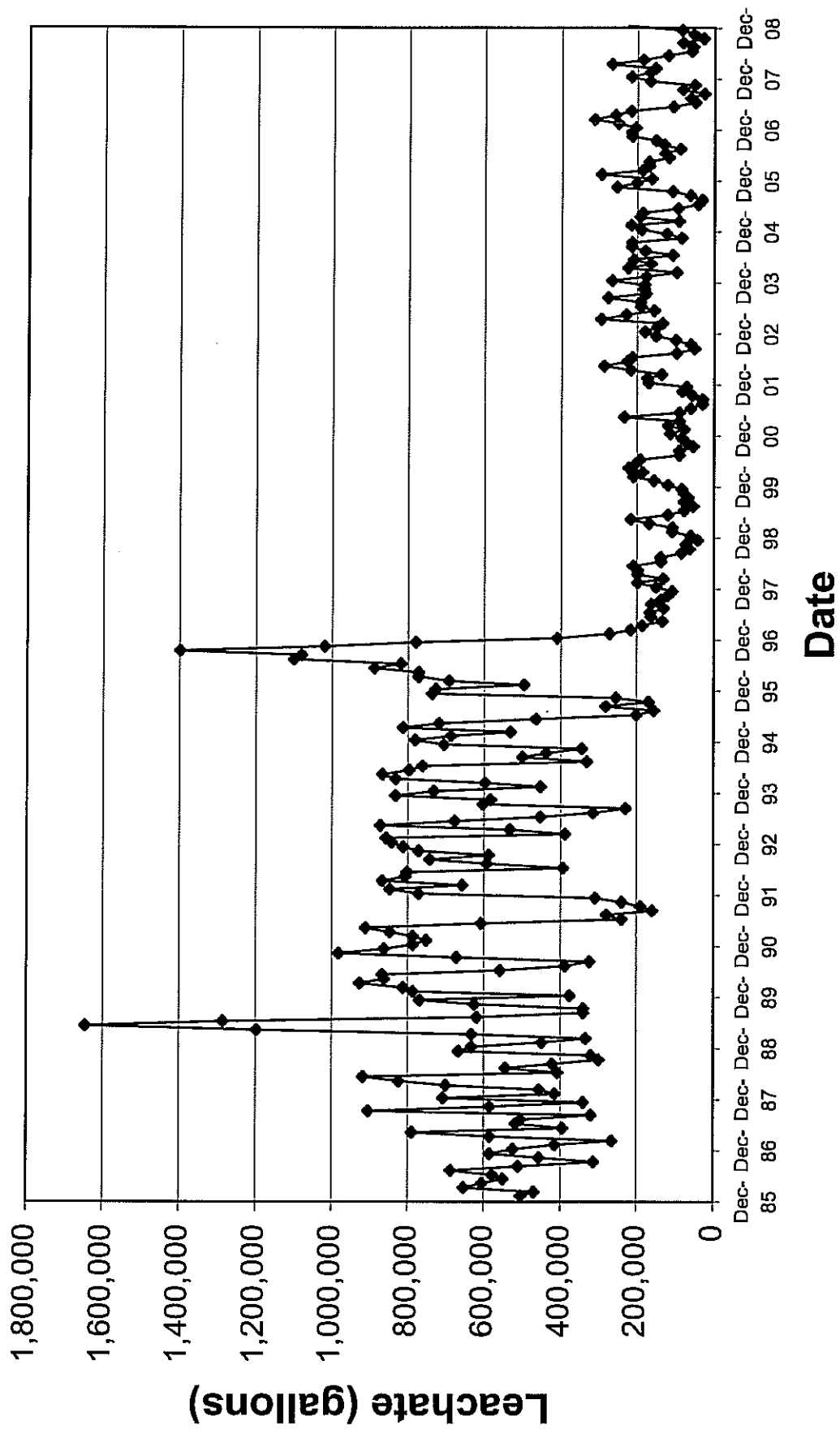
² WAL-19 tested for VOCs prior to filters, between filters and after filters

Location	Current Sampling Frequency	Proposed Sampling Frequency	Proposed Analyte List ¹

Residential Water Supply

WAL-1	Every 3 Years	NR	NR
WAL-2	Semiannual	Annual	Metals
WAL-3	Every 3 Years	NR	NR
WAL-4	Every 3 Years	NR	NR
WAL-5	Semiannual	Annual	VOCs, Metals
WAL-6	Every 3 Years	NR	NR
WAL-7	Every 3 Years	NR	NR
WAL-8	Every 3 Years	NR	NR
WAL-9	Every 3 Years	NR	NR
WAL-10	Every 3 Years	NR	NR
WAL-11	Every 3 Years	NR	NR
WAL-12	Every 3 Years	NR	NR
WAL-13	Every 3 Years	NR	NR
WAL-14	Every 3 Years	NR	NR
WAL-15	Every 3 Years	NR	NR
WAL-16	Every 3 Years	NR	NR
WAL-17	Every 3 Years	NR	NR
WAL-18	Every 3 Years	NR	NR
WAL-19	Semiannual	Semiannual	VOCs ²
WAL-20	Every 3 Years	NR	NR

Leachate Quantity Wellsville-Andover Landfill



New York State Department of Environmental Conservation

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Alexander B. Grannis
Commissioner

May 12, 2009

William Whitfield
Director of Public Works
Village of Wellsville
200 Bolivar Road
Wellsville, New York 14895

Dear Mr. Whitfield:

Wellsville-Andover Landfill
Site hw902004
Wellsville, Alleghany County

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed the Site Monitoring Evaluation and Proposed Revised Monitoring Plan dated April 3, 2009, for the Wellsville-Andover Landfill site. This plan recommends modification of the environmental sampling for the landfill and the surrounding residences. Based on this review, the following determinations regarding the sampling frequency have been made.

Groundwater Monitoring Well CW-3A

This overburden monitoring well has increasing Volatile Organic Compounds (VOC) contamination and should be retained for annual sampling for field, VOC and metal analytes. It monitors a different interval of the overburden formation than the neighboring CW-3B monitoring well. The location is adjacent and downgradient from the landfill and could be an important sentinel well if the groundwater flow patterns should change.

Groundwater Monitoring Wells CW-3B, CW-4B, MW-15S, MW-17D, MW-17S, MW-18D, MW-18S, MW-3D, MW-3S

We concur with the proposed annual frequency and the proposed analyte list for these monitoring wells.

Groundwater Monitoring Well CW-4A

This monitoring well should be retained for annual sampling since it monitors a different interval of the overburden formation than the neighboring CW-4B. The location is adjacent and downgradient from the landfill and could be an important sentinel well if the groundwater flow patterns should change.

Groundwater Monitoring Well MW-15DA

This bedrock well has not been sampled following the remedial action since it has been dry. We concur with the removal from the required sampling list. This monitoring well should be decommissioned.

Groundwater Monitoring Well MW-1D

This monitoring well can also be decommissioned. MW-3S and MW-3D can both function as the upgradient monitoring wells. We concur with the deletion from the sampling schedule. This monitoring well is located at too great a distance to be useful as an upgradient well.

Groundwater Monitoring Wells MW-4D, MW-5D, MW-5S, MW-11S and MW-16S

These monitoring wells should all be sampled annually for the field, VOCs and metals parameters. In addition, there should be a sampling round in the spring for VOCs only. The VOCs in MW-4D, MW-5D, MW-5S and MW-11S are of concern to the Departments. In addition, groundwater concentrations in the sentinel landfill well MW-16 is of particular concern, since it is the furthest downgradient monitoring well from the landfill. If MW-16 becomes contaminated, there should be an assessment of both the remedy and the downgradient monitoring and residential sampling.

Surface Water and Sediment Sampling – SWS-1

Since these monitoring points are potential exposure points, they should be monitored annually for the field, VOCs and metals parameters. In addition the surface water and sediment sampling should be sampled for the full wet chemistry list that it currently in effect.

Groundwater Cut-Off System MH-32, MH-33 and Leachate LS-1

We concur with the proposed sampling frequency and analyte list for these sampling points.

Recommendation to discontinue sampling of several residential wells

We concur with the recommendation to discontinue sampling at the following residential wells currently within the sampling program:

WAL-1: Shettine Residence; WAL-16 Cornell Residence

No site-related constituents have been detected in these wells at concentrations that exceed NYSDOH standards for public drinking water supplies. Additionally, given that the WAL-1 residence is currently unoccupied and the WAL-16 residence is significantly distant from the landfill, we agree with the recommendation to discontinue sampling of these wells.

WAL-3: Gephart Residence; WAL-4: Hanabach Residence; WAL-8: Dodge Residence; WAL-9: Greene Residence; WAL-10: Schettine Residence; WAL-14 Carl Residence; WAL-18: Geffer Residence; WAL-13: Wispel Residence; WAL-15: Kelly Residence

Sodium has been detected in these residential wells at concentrations that exceed NYSDOH public drinking water standards. Standards for sodium were originally based on aesthetic and taste properties, and the NYSDOH public drinking water supply guideline for people on severely restricted sodium diet is no more than 20 mg/L of sodium. If concerned about sodium intake, the homeowner may wish to use an alternate supply of water for drinking and cooking purposes. While semi-volatile organic compounds have been detected sporadically in several sampling events, these compounds were detected at concentrations significantly lower than the NYSDOH public drinking water standards. Based on this information, we agree with the recommendation to discontinue sampling of these wells.

WAL-6: Cimino Residence

Iron and manganese have been detected at concentrations that exceed NYSDOH public drinking water standards in two sampling events. However, no compounds were detected at levels which exceed NYSDOH drinking water standards in the last three of the six sampling events completed. Based on this information, we agree with the recommendation to discontinue sampling of this well.

WAL-11: Urban Residence

Iron has been historically detected in WAL-11 at concentrations that exceed NYSDOH public drinking water standards. However, levels of iron detected in the last of the twelve sampling events completed did not exceed drinking water standards. Standards for iron were based on aesthetic properties and were set to prevent problems such as poor taste, odor and fixture staining. Given this information, we concur with the recommendation to discontinue sampling of this well.

WAL-12: Blaske Residence

Iron and sodium have been detected in this residential well during the three completed sampling events at concentrations that exceed NYSDOH public drinking water standards. Standards for sodium and iron were based on aesthetic and taste properties, and the NYSDOH public drinking water supply guideline for people on severely restricted sodium diet is no more than 20 mg/L of sodium. If concerned about sodium intake, the homeowner may wish to use an alternative supply of water for drinking and cooking purposes. Based on this information, we concur with the recommendation to discontinue sampling of this well.

WAL-17: Meisenzhal Residence

Iron and sodium have been detected at WAL-17 at concentrations that exceed NYSDOH public drinking water standards. Standards for sodium and iron were based on aesthetic and taste properties, and the NYSDOH public drinking water supply guideline for people on a severely restricted sodium diet is no more than 20 mg/L of sodium. If concerned about sodium intake, the homeowner may wish to use an alternate supply of water for drinking and cooking purposes. Based on this information, we agree with the proposal to discontinue sampling of this well.

WAL-20: Fanton Residence

Current sampling frequency: every three years

Proposed sampling frequency: discontinue sampling

Three sampling events have been completed since the granulated activated carbon filter system was removed from WAL-20 in January of 2007 (subsequent to placement of a new drinking water well in 2005). With the exception of sodium, no site-related constituents have been detected in WAL-20 at levels that exceed applicable standards. Additionally, this well is located a substantial distance from the landfill. Based on this information, we agree with the recommendation to discontinue sampling of this well.

Recommendation to modify sampling frequency

We concur with the recommendation to modify the sampling frequency at the following residential wells currently within the sampling program:

WAL-2: Rossini Residence

Inorganic compounds (metals), including sodium, iron and manganese have historically been detected in WAL-2 at concentrations that exceed NYSDOH public drinking water standards. We understand that this residence is adjacent to the Wellsville-Andover landfill, is occupied seasonally and that the homeowner uses bottled water as a source of potable water while in-residence. Given this information, we concur with the recommendation of annual sampling for metals compounds. This is reduced from semi-annual sampling for inorganic compounds.

WAL-5: Ormsby Residence

Volatile organic compounds, including cis-1,2-dichloroethene and trichloroethene and metals compounds have been detected at low concentrations (below NYSDOH drinking water standards) in WAL-5. The concentrations of these compounds has remained relatively consistent over semi-annual sampling events completed from 1998 to 2002 and have not been detected in the last twelve sampling events. Based on this information, we concur with the recommendation to reduce the sampling frequency from semi-annual to annual sampling.

WAL-19: LaDue Residence

We concur with the recommendation to continue semi-annual sampling.

Although a review of the available data supports the proposed modifications to the sampling program, it should be noted that, should conditions change additional sampling or re-sampling of the environmental media may be warranted and requested by either NYSDOH or NYSDEC.

If you have any questions, please contact me at 716-851-7220.

Sincerely,

Linda C. Ross

Linda C. Ross
Project Manager
Division of Environmental Remediation

LCR/tml

cc: Mr. Jonathan Brandes, On-Site Technical Services, Inc
Ms. Tamara Girard, NYSDOH

Jon Brandes

From: "Linda Ross" <lcross@gw.dec.state.ny.us>
To: "Jon Brandes" <Jonb@on-sitehs.com>
Cc: "Tamara Girard" <tsg01@health.state.ny.us>; "William Whitfield" <billwhitfield@wellsvilleny.com>
Sent: Friday, May 22, 2009 1:15 PM
Attach: MON PROGRAM REV Table.xls
Subject: Fwd: Wellsville Andover Landfill

Jon, I agree with your proposal below in the email and the attached monitoring schedule. Please continue with the landfill gas monitoring, since they are potential exposure points. Thanks. L.

Linda C. Ross
 Engineering Geologist 1
 New York State Department of Environmental Conservation
 Region 9
 270 Michigan Avenue
 Buffalo, NY 14203-2999
lcross@gw.dec.state.ny.us
 office: 716. 851. 7220
 fax: 716. 851. 7226

>>> "Jon Brandes" <Jonb@on-sitehs.com> 5/22/2009 11:59 AM >>>
 Linda,

Based on your response to the site evaluation and proposed monitoring program, we have revised the monitoring program table - please see attached. We will follow this schedule starting with the fall event. One item that was not commented on is the request to discontinue landfill gas monitoring. Please provide comment.

Also I propose the following for reporting:

- 1) The spring 2009 sampling event was completed following the old monitoring schedule and the typical report will be completed.
- 2) For each future spring and fall event a letter report will be prepared once analytical results are received. The letter report will present the results of the monitoring event.
- 3) A annual report each year similar to previous annual reports.

Thanks and have a great holiday weekend!!

Jon Brandes, P.G.
 Senior Geologist
 On-Site Technical Services, Inc.
 72 Railroad Ave
 Wellsville, NY 14895
 Phone: 585-593-1824
 Fax: 585-593-7471

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

270 Michigan Avenue, Buffalo, NY 14203-2915

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www.dec.ny.gov

May 19, 2021

William Whitfield
Village of Wellsville
200 Bolivar Road
Wellsville, NY 14895

Re: Site Management (SM) -
Groundwater Sampling Modification
Wellsville-Andover Landfill, Wellsville
Allegany County, Site No.: **902004**

Dear William Whitfield (as the Certifying Party):

The Department has reviewed your letter, received May 13, 2021, regarding potential grants to assist with onsite sampling. Unfortunately, no grants or assistance are available from the Department.

In order to diminish sampling costs onsite, the Department has reviewed the groundwater monitoring wells that are sampled semi-annually and annually. Going forward, please only conduct annual groundwater sampling in the Fall. Additionally, MW-15S, MW-16S, and MW-3S can be removed from the monitoring program. If the Village and On-Site Geological Services (On-Site) believe additional monitoring parameters or frequencies should be modified, please submit a proposal letter to the Department for review.

In regard to the requested emergent contaminant sampling, additional onsite sampling is being requested in order to further characterize the site. The three samples collected in 2018 did not give an encompassing representation of emergent contaminant concentrations over the entire site. An additional round of sampling at the monitoring wells CW-3A/3B, CW-4A/4B, MW-5S/5D, and MW-17S/17D will provide additional details on the location of emergent contaminants and be used to determine if further sampling is warranted. After these eight samples are collected, the Village and On-Site can indicate to the Department if they believe additional emergent contaminant sampling is warranted at each location.

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,



Megan Kuczka

Environmental Program Specialist – 1



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ec: Andrea Caprio – NYSDEC
 James Sullivan – NYSDOH
 Charlotte Bethoney - NYSDOH
 Jon Brandes – On-Site Geological Services, D.P.C.
 Randy Shayler – Village of Wellsville
 Melissa Mullen – Village of Wellsville

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April 26, 2022

Dean Arnold
Village of Wellsville
200 Bolivar Road
Wellsville, NY 14895

Re: Site Management (SM) –
Periodic Review Report (PRR) Response Letter
Wellsville-Andover Landfill, Wellsville
Allegany County, Site No.: **902004**

Dear Dean Arnold (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for the following period: February 15, 2021 to February 15, 2022. The Department hereby accepts the PRR and IC/EC Certification.

The frequency of Periodic Reviews for this site is once a year, and your next PRR will be due on March 17, 2023. You should receive a reminder letter and updated certification form 75-days prior to the report's due date. Regardless of receipt or not of the reminder notice, the next PRR, including the signed certification form, is still due on the date specified above.

The Department has assessed the emergent contaminant sampling results detailed within the 2021-2022 PRR and requests that CW-3B, CW-4A, CW-4B, and MW-17S continue to be sampled annually for emergent contaminants (PFAS and 1,4-dioxane). Additionally, please sample MW-5D annually for 1,4-dioxane only. Sampling of these wells are being requested to track onsite concentrations in excess of the Drinking Water Quality Council screening thresholds and the Department's Draft Guidance Values for Emergent Contaminants.

As noted within the 2021-2022 PRR, please replace Leachate Pump 2 during the 2022-2023 Certifying Period. Additionally, hard copies of the quarterly inspection and maintenance checklist no longer need to be mailed to the Department. Please send an electronic copy only.

Within future PRR submittals, please complete the following revisions:

- Some of the laboratory reporting limits are above the corresponding groundwater quality standard/guidance values (GWQS/V). Please ensure reporting limits are below GWQS/V where applicable
- Convert PFAS data to ng/L
- Indicate the NYSDEC PFAS guidance values are in draft form
- Bold or highlight any exceedances of GWQS/V or Class C Standards in the tables



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- Add the applicable GWQS/V, Class C Standards, and/or NYSDOH MCL to each Table
- Revise Figure 1 to detail the 19 acre site boundary only
- Include the Residential Water Supply results letters as an appendix

If you have any questions, please contact me at 716-851-7220 or email: megan.kuczka@dec.ny.gov.

Sincerely,



Megan Kuczka
Environmental Program Specialist – 1

cc: Andrea Caprio – NYSDEC
Jim Sullivan – NYSDOH
Charlotte Bethoney – NYSDOH
Deb Harvey – Village of Wellsville
Jon Brandes – On-Site Geological Services, D.P.C.



Department of
Environmental
Conservation

Appendix C

Field Sampling Forms

On-Site Geological Services, D.P.C.
Groundwater Cutoff, Leachate, Surface Water, Sediment,
Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 4-17-24

Sampling Location: SWS-1 Sample ID: SWS1-0424 Arrival Time: 1106

Weather Conditions

Temp. 53° F () Sunny () Partly Cloudy ☒ Cloudy ☒ Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Location Type

() Groundwater Cutoff, () Leachate, ☒ Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: 6" Estimated Flow: Approx 3 GPM Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 142100804), Turbidity (sn: 13309)
Measured in: ☒ Directly Submerged Probe () Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1130</u>	<u>7.26</u>	<u>202.3</u>	<u>10.7</u>	<u>7.65</u>	<u>9.9</u>	<u>122.3</u>

Sample Information

Sample Type: ☒ Grab () Composite Sample Location: () Discharge Pipe () Pond ☒ Ditch () Leachate Sump

Location Description/Condition: Ditch Across road west of L57

Sample Collection Equipment/Method: dipper Sample Description (clarity/color): Clear No Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: Metals + Vols + Wtchem Sample Time: 1130 Number of Containers: 10

Sampling Completion: Time 1151 Date 4-17-24 Samplers K Dye

On-Site Geological Services, D.P.C.

Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

WAL19Post-0424 Date: 4-17-24

WAL19Inter-0424

Sampling Location: WAL-19 Sample ID: WAL19Pre-0424 Arrival Time: 1000

Weather Conditions

Temp. 53° F () Sunny ☒ Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Sample Information

Sample Type: ☒ Grab () Composite

Sample Location: House

Location Description/Condition: Kitchen = Post interbetween Filters - Pre Before Filters

Sample Collection Equipment/Method: Direct Grab Sample Description (clarity/color): Clear No Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: Metals, Vocs & Wet chem Sample Time: 1050 Pre
1040 Inter
1035 Post Number of Containers: 9

Comment: _____

Sampling Completion: Time 1103 Date 4-17-24 Samplers K Dye

DUP1
MS/MSD

On-Site Geological Services, D.P.C. Residential Water Supply Sampling Field Form

Project: Wellsville-Andover Landfill Wellsville, New York

Date: 6/18/24

Sampling Location: WAL-22 Sample ID: WAL22-0624 Arrival Time: 0900

DUP1-0624
Weather Conditions FB1-0624

Temp. 73 ° F () Sunny (X) Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: light

Location Type

() Spring (X) Well () Other _____

Flow and Depth Information (as appropriate)

Well Depth: 220' Estimated Flow: 500mL/5sec

Comments: Start purge 0907 run hose outside for purge

Field Parameters (as appropriate)

Meter: YSI (sn: 17D108273), Turbidity (sn: 22014205) Field Parameters tested in: Cup

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
					Initial Temperature: <u>20.2</u> 0908	
<u>0940</u>	<u>8.05</u>	<u>482.4</u>	<u>2.43</u>	<u>NA</u>	<u>11.8</u>	<u>-47.2</u>

Sample Information

Sample Type: (X) Grab () Composite

Location Description/Condition: New Log house basement pressure tank
spigo +. Disconnect hose for sampling

Sample Collection Equipment/Method: direct grab Sample Time: 0940/0950

Sample Description (clarity/color): clear, No Color

Sample Odor: (Y) (N) Explain: _____

Other Observations / Comments: _____

Analysis Requested: VOC, 1,4-D, PEAS, Metals Number of Containers: 16-Sample
8-AJP
2-FB
Sampling Completion: Time 1035 Date 6/18/24 Samplers J. Baudes / K. Dye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/21/24

Monitoring Well: CW-3A Sample ID: CW3A-1024 Arrival Time: 1017

Weather Conditions

Temp. 59° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: N/A Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 27.47 ft - SWL: 10.49 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.7 gals Purge Vol: 2.9 gals.

Start Purge: 1025 Pumping Rate: 236 ^{sec}/500 mL Purge Duration: _____ Start Sampling: 1125

Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D08273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.15</u>	<u>1105</u>	<u>12.10</u>	<u>1319</u>	<u>8.34</u>	<u>7.23</u>	<u>15.2</u>	<u>-54.7</u>	<u>21.34</u>
<u>2.00</u>	<u>1110</u>	<u>12.11</u>	<u>1321</u>	<u>6.93</u>	<u>7.07</u>	<u>15.0</u>	<u>-54.0</u>	<u>22.57</u>
<u>2.3</u>	<u>1115</u>	<u>12.10</u>	<u>1319</u>	<u>6.92</u>	<u>7.20</u>	<u>15.2</u>	<u>-53.4</u>	<u>24.42</u>
<u>2.6</u>	<u>1120</u>	<u>12.10</u>	<u>1318</u>	<u>5.65</u>	<u>7.36</u>	<u>15.4</u>	<u>-52.9</u>	<u>Top</u>
<u>2.9</u>	<u>1125</u>	<u>12.10</u>	<u>1315</u>	<u>6.97</u>	<u>7.28</u>	<u>15.5</u>	<u>-53.2</u>	<u>of</u>
_____	_____	_____	_____	_____	_____	_____	_____	<u>Pump</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

Stabilization Criteria: 1) field parameters ± 0.1 pH, $\pm 3\%$ conductivity, ± 10 mv ORP, $\pm 10\%$ DO, $\pm 10\%$ Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 50 Controller Discharge Time: 8 BP300 PSI: _____

Analysis Requested: _____ Number of Containers: 4

Well Sampling Completion: Date 10-21-24 Time 1142 Samplers K Dye

MS/MSD

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover LandfillDate: 10/21/24Monitoring Well: CW-3B Sample ID: CW3B-1024 Arrival Time: 0831

Weather Conditions

Temp. 48 °F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () SnowWind Conditions: 0-5

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OKWell Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 37.70 ft - SWL: 21.44 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.6 gals Purge Vol: 2.5 gals.Start Purge: 0845 Pumping Rate: 108 ^{sec} /500 mL Purge Duration: 60 min Start Sampling: 0945Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 170108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.4</u>	<u>0920</u>	<u>6.83</u>	<u>603.1</u>	<u>1.44</u>	<u>0.40</u>	<u>12.5</u>	<u>95.2</u>	<u>23.10</u>
<u>1.6</u>	<u>0925</u>	<u>6.81</u>	<u>601.8</u>	<u>1.57</u>	<u>0.47</u>	<u>12.1</u>	<u>100.7</u>	<u>23.23</u>
<u>1.8</u>	<u>0930</u>	<u>6.79</u>	<u>602.4</u>	<u>1.24</u>	<u>0.58</u>	<u>12.3</u>	<u>102.3</u>	<u>23.48</u>
<u>2.0</u>	<u>0935</u>	<u>6.80</u>	<u>603.7</u>	<u>0.93</u>	<u>0.39</u>	<u>12.3</u>	<u>103.5</u>	<u>23.55</u>
<u>2.3</u>	<u>0940</u>	<u>6.81</u>	<u>604.3</u>	<u>0.78</u>	<u>0.32</u>	<u>12.4</u>	<u>102.9</u>	<u>23.70</u>
<u>2.5</u>	<u>0945</u>	<u>6.81</u>	<u>604.6</u>	<u>1.14</u>	<u>0.28</u>	<u>12.3</u>	<u>102.0</u>	<u>23.94</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, $\pm 3\%$ conductivity, ± 10 mv ORP, $\pm 10\%$ DO, $\pm 10\%$ Turbidity; 2) 3 well volumes or drySample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 40 Controller Discharge Time: 10 BP300 PSI: _____Analysis Requested: Vols + Metals + PFAS + Dioxane Number of Containers: 20Well Sampling Completion: Date 10-21-24 Time 1016 Samplers K Oye

88.3% 9.23 16.7°C 0854

FB2
1425

On-Site Geological Services, D.P.C. Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/21/24

Monitoring Well: CW-4A Sample ID: CW4A-1024 Arrival Time: 1320

Weather Conditions

Temp. 73° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: N/A Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 19.12 ft - SWL: 6.88 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.9 gals Purge Vol: 2.3 gals.

Start Purge: 1325 Pumping Rate: 102 ^{5cc} 1500 mL Purge Duration: 60 min Start Sampling: 1425

Purging Method: ☒ Bladder Pump # PFAS () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.4</u>	<u>1405</u>	<u>6.42</u>	<u>314.2</u>	<u>38.9</u>	<u>0.17</u>	<u>20.2</u>	<u>127.6</u>	<u>10.14</u>
<u>1.6</u>	<u>1410</u>	<u>6.42</u>	<u>315.4</u>	<u>43.5</u>	<u>0.16</u>	<u>19.6</u>	<u>125.7</u>	<u>10.18</u>
<u>1.8</u>	<u>1415</u>	<u>6.41</u>	<u>316.6</u>	<u>42.0</u>	<u>0.15</u>	<u>19.4</u>	<u>123.5</u>	<u>10.56</u>
<u>2.0</u>	<u>1420</u>	<u>6.41</u>	<u>318.9</u>	<u>39.2</u>	<u>0.15</u>	<u>18.9</u>	<u>121.9</u>	<u>12.89</u>
<u>2.3</u>	<u>1425</u>	<u>6.40</u>	<u>317.1</u>	<u>13.3</u>	<u>0.28</u>	<u>18.5</u>	<u>121.7</u>	<u>11.08</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: PFAS Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 45 Controller Discharge Time: 8 BP300 PSI: _____

Analysis Requested: Voc's + Metals + PFAS + Dioxane Number of Containers: 10

Well Sampling Completion: Date 10-21-24 Time 1447 Samplers K Dye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/21/21

Monitoring Well: CW-4B Sample ID: CW4B-1024 Arrival Time: 1150

Weather Conditions

Temp. 67° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 30.16 ft – SWL: 5.98 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 3.8 gals Purge Vol: 3.1 gals.

Start Purge: 1155 Pumping Rate: 104^{sec} 1500 mL Purge Duration: 60 min Start Sampling: 1255

Purging Method: () Bladder Pump # PFAS () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.75</u>	<u>1235</u>	<u>6.78</u>	<u>345.3</u>	<u>0.55</u>	<u>1.47</u>	<u>14.7</u>	<u>136.3</u>	<u>10.20</u>
<u>2.1</u>	<u>1240</u>	<u>6.73</u>	<u>346.1</u>	<u>1.83</u>	<u>2.00</u>	<u>14.2</u>	<u>137.0</u>	<u>10.48</u>
<u>2.4</u>	<u>1245</u>	<u>6.74</u>	<u>346.9</u>	<u>0.51</u>	<u>1.83</u>	<u>14.0</u>	<u>138.4</u>	<u>10.88</u>
<u>2.75</u>	<u>1250</u>	<u>6.71</u>	<u>346.4</u>	<u>1.16</u>	<u>1.79</u>	<u>14.1</u>	<u>138.1</u>	<u>11.29</u>
<u>3.1</u>	<u>1255</u>	<u>6.71</u>	<u>346.7</u>	<u>0.58</u>	<u>1.91</u>	<u>14.0</u>	<u>139.7</u>	<u>11.82</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, $\pm 3\%$ conductivity, ± 10 mv ORP, $\pm 10\%$ DO, $\pm 10\%$ Turbidity; 2) 3 well volumes or dry

Sample Collection Method: PFAS Bladder ^{RMP} Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 45 Controller Discharge Time: 8 BP300 PSI: _____

Analysis Requested: Vols + Metals + PFAS + Dioxane Number of Containers: 10

Well Sampling Completion: Date 10-21-24 Time 1318 Samplers K D/E

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/16/24

Monitoring Well: MW-3D Sample ID: MW3D-1024 Arrival Time: 1012

Weather Conditions

Temp. 42 ° F () Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 46.25 ft – SWL: 21.52 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 4.0 gals Purge Vol: 1.5 gals.

Start Purge: 1020 Pumping Rate: 513 ^{sec} /500 mL Purge Duration: 85 min Start Sampling: 1145

Purging Method: ☒ Bladder Pump # X () Grundfos Pump () Bail () Peristaltic () Pencil Bladder
Pencil

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.25</u>	<u>1120</u>	<u>11.47</u>	<u>387.0</u>	<u>0.27</u>	<u>9.41</u>	<u>8.0</u>	<u>19.7</u>	<u>27.21</u>
<u>1.3</u>	<u>1125</u>	<u>11.52</u>	<u>388.4</u>	<u>0.13</u>	<u>9.32</u>	<u>7.4</u>	<u>18.9</u>	<u>27.52</u>
<u>1.4</u>	<u>1130</u>	<u>11.53</u>	<u>390.1</u>	<u>0.11</u>	<u>9.20</u>	<u>7.5</u>	<u>18.8</u>	<u>27.80</u>
<u>1.4</u>	<u>1135</u>	<u>11.56</u>	<u>388.0</u>	<u>0.08</u>	<u>9.39</u>	<u>7.0</u>	<u>19.2</u>	<u>28.18</u>
<u>1.5</u>	<u>1140</u>	<u>11.54</u>	<u>389.9</u>	<u>0.10</u>	<u>9.12</u>	<u>7.0</u>	<u>19.4</u>	<u>28.49</u>
<u>1.5</u>	<u>1145</u>	<u>11.55</u>	<u>392.4</u>	<u>0.19</u>	<u>9.22</u>	<u>6.9</u>	<u>19.5</u>	<u>28.82</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Pencil Bladder Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: check PH. with YSI 20H101689 to confirm PH High Reading.

Controller Fill Time: 20 Controller Discharge Time: 7 BP300 PSI: _____

Analysis Requested: VOC's + Metals Number of Containers: 4

Well Sampling Completion: Date 1158 Time 10/16/24 Samplers K. Dye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/16/24

Monitoring Well: MW-4D Sample ID: MW4D-1024 Arrival Time: 1305

Weather Conditions

Temp. 41 °F () Sunny ☒ Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph w/ gusts

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 24.63 ft – SWL: 14.04 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.6 gals Purge Vol: 2.3 gals.

Start Purge: 1310 Pumping Rate: _____ /500 mL Purge Duration: 60 min Start Sampling: 1310

Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074225) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.3</u>	<u>1250</u>	<u>6.26</u>	<u>291.2</u>	<u>1.17</u>	<u>2.17</u>	<u>7.7</u>	<u>21.3</u>	<u>16.99</u>
<u>1.6</u>	<u>1255</u>	<u>6.27</u>	<u>290.0</u>	<u>2.01</u>	<u>0.91</u>	<u>7.6</u>	<u>19.9</u>	<u>17.29</u>
<u>1.8</u>	<u>1300</u>	<u>6.28</u>	<u>289.3</u>	<u>2.25</u>	<u>1.03</u>	<u>7.4</u>	<u>20.9</u>	<u>17.95</u>
<u>2.0</u>	<u>1305</u>	<u>6.26</u>	<u>286.0</u>	<u>2.30</u>	<u>0.80</u>	<u>8.2</u>	<u>19.2</u>	<u>18.64</u>
<u>2.3</u>	<u>1310</u>	<u>6.25</u>	<u>286.7</u>	<u>3.04</u>	<u>.86</u>	<u>8.2</u>	<u>19.6</u>	<u>19.38</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, $\pm 3\%$ conductivity, ± 10 mv ORP, $\pm 10\%$ DO, $\pm 10\%$ Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: Slight earthy odor

Other Observations/Comments: _____

Controller Fill Time: 4.5 Controller Discharge Time: 7 BP300 PSI: _____

Analysis Requested: Voc's + Metals Number of Containers: 4

Well Sampling Completion: Date 10-16-24 Time 1327 Samplers K O J E

99.7% → 11.02 8.1°C

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/16/24

Monitoring Well: MW-5D Sample ID: MW5D-1024 Arrival Time: 1334

Weather Conditions

Temp. 43 ° F () Sunny ☒ Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: Steady Wind

Well Condition Checklist

Bump posts: N/A Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 37.65 ft – SWL: 4.23 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 5.3 gals Purge Vol: 4.4 gals.

Start Purge: 1340 Pumping Rate: 82 ^{sec} / 500 mL Purge Duration: 65 min Start Sampling: 1445

Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.75</u>	<u>1425</u>	<u>6.82</u>	<u>161.7</u>	<u>0.23</u>	<u>3.63</u>	<u>12.9</u>	<u>73.2</u>	<u>6.42</u>
<u>3.1</u>	<u>1430</u>	<u>6.80</u>	<u>162.5</u>	<u>0.17</u>	<u>0.78</u>	<u>13.4</u>	<u>74.3</u>	<u>6.63</u>
<u>3.5</u>	<u>1435</u>	<u>6.82</u>	<u>163.0</u>	<u>0.13</u>	<u>3.42</u>	<u>13.7</u>	<u>75.7</u>	<u>6.71</u>
<u>3.9</u>	<u>1440</u>	<u>6.85</u>	<u>163.8</u>	<u>0.21</u>	<u>0.86</u>	<u>13.2</u>	<u>77.0</u>	<u>6.74</u>
<u>4.4</u>	<u>1445</u>	<u>6.81</u>	<u>164.1</u>	<u>0.46</u>	<u>0.72</u>	<u>12.1</u>	<u>78.3</u>	<u>7.02</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 37 Controller Discharge Time: 12 BP300 PSI: _____

Analysis Requested: Voc's + Metals + 1,4 Dioxane Number of Containers: 60

Well Sampling Completion: Date 10-16-24 Time 1508 Samplers K Dye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/22/24

Monitoring Well: MW-5S Sample ID: MW5S-1024 Arrival Time: 0824

Weather Conditions

Temp. 48 ° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 21.20 ft – SWL: 34.3 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.8 gals Purge Vol: 3.6 gals.

Start Purge: 0835 Pumping Rate: 152^{5cc} 1500 mL Purge Duration: 55 min Start Sampling: 0930

Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273) Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.0</u>	<u>0910</u>	<u>6.11</u>	<u>150.5</u>	<u>3.12</u>	<u>0.69</u>	<u>11.4</u>	<u>-10.1</u>	<u>6.94</u>
<u>2.4</u>	<u>0915</u>	<u>6.11</u>	<u>151.3</u>	<u>2.07</u>	<u>0.92</u>	<u>11.3</u>	<u>-5.7</u>	<u>6.12</u>
<u>2.8</u>	<u>0920</u>	<u>6.10</u>	<u>152.1</u>	<u>1.96</u>	<u>1.07</u>	<u>11.3</u>	<u>-3.8</u>	<u>6.09</u>
<u>3.25</u>	<u>0925</u>	<u>6.10</u>	<u>151.9</u>	<u>2.00</u>	<u>0.79</u>	<u>11.3</u>	<u>-1.9</u>	<u>6.24</u>
<u>3.60</u>	<u>0930</u>	<u>6.11</u>	<u>152.3</u>	<u>1.54</u>	<u>0.66</u>	<u>11.3</u>	<u>+0.1</u>	<u>6.18</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 34 Controller Discharge Time: 12 BP300 PSI: _____

Analysis Requested: Vox + Metals Number of Containers: 4

Well Sampling Completion: Date 10-22-24 Time 0946 Samplers KD/C

95.7% 8.81 18.5% 5838

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/22/24

Monitoring Well: MW-11S Sample ID: MW11S-1024 Arrival Time: 1000

Weather Conditions

Temp. 57° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 20.40 - SWL: 9.00 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.8 gals Purge Vol: 3.6 gals.

Start Purge: 1005 Pumping Rate: _____ /500 mL Purge Duration: 60 min Start Sampling: 1105

Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.0</u>	<u>1045</u>	<u>6.80</u>	<u>652</u>	<u>13.0</u>	<u>0.81</u>	<u>15.8</u>	<u>10.3</u>	<u>9.97</u>
<u>2.4</u>	<u>1050</u>	<u>6.80</u>	<u>657</u>	<u>10.7</u>	<u>0.47</u>	<u>15.9</u>	<u>10.1</u>	<u>9.99</u>
<u>2.8</u>	<u>1055</u>	<u>6.80</u>	<u>663</u>	<u>11.9</u>	<u>0.50</u>	<u>15.9</u>	<u>10.4</u>	<u>10.09</u>
<u>3.2</u>	<u>1100</u>	<u>6.81</u>	<u>667</u>	<u>8.52</u>	<u>0.44</u>	<u>16.0</u>	<u>10.7</u>	<u>10.16</u>
<u>3.6</u>	<u>1105</u>	<u>6.82</u>	<u>668</u>	<u>5.46</u>	<u>0.65</u>	<u>16.1</u>	<u>11.3</u>	<u>10.22</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, $\pm 3\%$ conductivity, ± 10 mv ORP, $\pm 10\%$ DO, $\pm 10\%$ Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear no color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 33 Controller Discharge Time: 11 BP300 PSI: _____

Analysis Requested: VOL's + Metals Number of Containers: 4

Well Sampling Completion: Date 10-22-24 Time 1126 Samplers R Dye

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-17-24

Monitoring Well: MW-17D Sample ID: MW17D-1024 Arrival Time: 1033

Weather Conditions

Temp. 40° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 55.10 ft – SWL: 32.80 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 20.0 gals Purge Vol: 2.9 gals.

Start Purge: 1040 Pumping Rate: 136 ^{sec} 1500 mL Purge Duration: 60 min Start Sampling: 1140

Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273) Turbidity (sn: 72074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.8</u>	<u>1120</u>	<u>9.43</u>	<u>306.7</u>	<u>101.0</u>	<u>2.02</u>	<u>9.9</u>	<u>53.4</u>	<u>34.56</u>
<u>2.25</u>	<u>1125</u>	<u>9.40</u>	<u>309.2</u>	<u>79.3</u>	<u>1.89</u>	<u>10.2</u>	<u>53.0</u>	<u>35.06</u>
<u>2.6</u>	<u>1130</u>	<u>9.42</u>	<u>308.8</u>	<u>72.5</u>	<u>2.00</u>	<u>10.0</u>	<u>53.2</u>	<u>35.20</u>
<u>2.9</u>	<u>1135</u>	<u>9.41</u>	<u>309.2</u>	<u>68.2</u>	<u>1.99</u>	<u>9.9</u>	<u>52.0</u>	<u>35.33</u>
	<u>1140</u>	<u>9.42</u>	<u>308.4</u>	<u>58.1</u>	<u>1.97</u>	<u>10.0</u>	<u>51.9</u>	<u>35.58</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: lightly cloudy Sample Odor: No odor

Other Observations/Comments: light orange tint

Controller Fill Time: _____ Controller Discharge Time: _____ BP300 PSI: _____

Analysis Requested: VOCS + Metals Number of Containers: 4

Well Sampling Completion: Date 10-17-24 Time 1211 Samplers KYE

On-Site Geological Services, D.P.C.
Groundwater Purging and Sampling Field Form

Dup 1
0945
FBJ
0935

Project: Wellsville/Andover Landfill

Date: 10/17/24

Monitoring Well: MW-17S Sample ID: MW17S-1024 Arrival Time: 0811

Weather Conditions

Temp. 34 ° F () Sunny ☒ Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD 26.94 ft - SWL: 7.48 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 2.7 gals Purge Vol: 2.9 gals.

Start Purge: 0835 Pumping Rate: 106 ^{sec} 1500 mL Purge Duration: 60 min Start Sampling: 0935

Purging Method: () Bladder Pump # PFAS () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.75</u>	<u>0915</u>	<u>7.25</u>	<u>1253</u>	<u>40.4</u>	<u>0.88</u>	<u>5.9</u>	<u>103.1</u>	<u>11.16</u>
<u>2.0</u>	<u>0920</u>	<u>7.24</u>	<u>1257</u>	<u>36.0</u>	<u>0.93</u>	<u>6.4</u>	<u>105.3</u>	<u>11.42</u>
<u>2.3</u>	<u>0925</u>	<u>7.24</u>	<u>1256</u>	<u>30.8</u>	<u>1.14</u>	<u>6.3</u>	<u>107.2</u>	<u>11.58</u>
<u>2.6</u>	<u>0930</u>	<u>7.24</u>	<u>1255</u>	<u>18.8</u>	<u>0.84</u>	<u>6.3</u>	<u>108.5</u>	<u>11.78</u>
<u>2.9</u>	<u>0935</u>	<u>7.24</u>	<u>1250</u>	<u>4.45</u>	<u>1.09</u>	<u>6.4</u>	<u>109.4</u>	<u>12.10</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: PFAS Bladder Pump Sample clarity/color: Clear No color Sample Odor: No odor

Other Observations/Comments: Use Bladder Pump with Dedicated HDPE Tubing

Controller Fill Time: 38 Controller Discharge Time: 8 BP300 PSI: _____

Analysis Requested: Voc's + Metals + PFAS + 1.4 Diox Number of Containers: 20

Well Sampling Completion: Date 10-17-24 Time 1025 Samplers K G L

94.5% 10.12 12% 0844

USE PFAS Bladder Pump
with dedicated HDPE tubing

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/17/24

Monitoring Well: MW-18D Sample ID: MW18D-1024 Arrival Time: 1330

Weather Conditions

Temp. 52 ° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: OK Surface pad: OK

Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 28.50 ft - SWL: 14.72 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 8.9 gals Purge Vol: 3.8 gals.

Start Purge: 1340 Pumping Rate: 148 ⁵⁰⁰ mL Purge Duration: 60 min Start Sampling: 1440

Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 17D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>2.4</u>	<u>1420</u>	<u>7.51</u>	<u>376.6</u>	<u>89.0</u>	<u>0.57</u>	<u>12.0</u>	<u>-147.8</u>	<u>17.05</u>
<u>2.8</u>	<u>1425</u>	<u>7.48</u>	<u>376.1</u>	<u>86.2</u>	<u>0.49</u>	<u>12.0</u>	<u>-145.1</u>	
<u>3.1</u>	<u>1430</u>	<u>7.47</u>	<u>374.6</u>	<u>90.2</u>	<u>0.51</u>	<u>12.1</u>	<u>-143.6</u>	
<u>3.4</u>	<u>1435</u>	<u>7.46</u>	<u>373.3</u>	<u>89.6</u>	<u>0.61</u>	<u>12.0</u>	<u>-142.0</u>	
<u>3.8</u>	<u>1440</u>	<u>7.44</u>	<u>371.7</u>	<u>86.7</u>	<u>0.56</u>	<u>12.0</u>	<u>-140.5</u>	<u>18.68</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, $\pm 3\%$ conductivity, ± 10 mv ORP, $\pm 10\%$ DO, $\pm 10\%$ Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: lightly cloudy Sample Odor: _____

Other Observations/Comments: Back and Forth over guard rail / slight orange tint and Jump of Platform

Controller Fill Time: 35 Controller Discharge Time: 10 BP300 PSI: _____ ^{Hard on the Rack}

Analysis Requested: Voc's + Metals Number of Containers: 4

Well Sampling Completion: Date 10-17-24 Time 1456 Samplers KDE

On-Site Geological Services, D.P.C.

Groundwater Purging and Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/17/24

Monitoring Well: MW-18S Sample ID: MW18S-1024 Arrival Time: 1213

Weather Conditions

Temp. 48° F ☒ Sunny () Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow
Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. Casing/lock: NA Surface pad: OK
Well Visibility (paint): OK Well Label: OK Comment: _____

Depth & Purging Information

TD: 20.49 ft – SWL: 11.56 ft x 0.16 if 2" or 0.65 if 4" = 1 Well Volume: 1.4 gals Purge Vol: 2.9 gals.
Start Purge: 1220 Pumping Rate: 168 ^{sec} / 500 mL Purge Duration: 50 min Start Sampling: 1310
Purging Method: ☒ Bladder Pump # _____ () Grundfos Pump () Bail () Peristaltic () Pencil Bladder

Field Parameters

Meters: YSI (sn: 217D108273), Turbidity (sn: 22074205) Measured in: ☒ Flow Cell () Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
<u>1.6</u>	<u>1250</u>	<u>6.41</u>	<u>232.8</u>	<u>31.4</u>	<u>0.79</u>	<u>11.9</u>	<u>122.8</u>	<u>13.62</u>
<u>2.0</u>	<u>1255</u>	<u>6.40</u>	<u>232.1</u>	<u>23.3</u>	<u>0.58</u>	<u>12.1</u>	<u>122.2</u>	<u>13.81</u>
<u>2.3</u>	<u>1300</u>	<u>6.40</u>	<u>231.9</u>	<u>20.8</u>	<u>0.79</u>	<u>12.2</u>	<u>121.3</u>	<u>14.08</u>
<u>2.6</u>	<u>1305</u>	<u>6.39</u>	<u>232.0</u>	<u>11.2</u>	<u>0.62</u>	<u>12.4</u>	<u>120.5</u>	<u>14.34</u>
<u>2.9</u>	<u>1310</u>	<u>6.40</u>	<u>231.8</u>	<u>2.56</u>	<u>0.56</u>	<u>12.3</u>	<u>118.7</u>	<u>14.59</u>

Stabilization Criteria: 1) field parameters ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity; 2) 3 well volumes or dry

Sample Collection Method: Bladder Pump Sample clarity/color: Clear No Color Sample Odor: No odor

Other Observations/Comments: _____

Controller Fill Time: 40 Controller Discharge Time: 7 BP300 PSI: _____

Analysis Requested: VOC's + Metals Number of Containers: 4

Well Sampling Completion: Date 10-17-24 Time 1326 Samplers K D E

On-Site Geological Services, D.P.C.

Groundwater Cutoff, Leachate, Surface Water, Sediment, Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/15/24

Sampling Location: LS-1 Sample ID: LS1-1024 Arrival Time: 0856

Weather Conditions

Temp. 42 ° F () Sunny () Partly Cloudy ☒ Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Location Type

() Groundwater Cutoff, ☒ Leachate, () Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: > 3 ft Estimated Flow: NA Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 201101689), Turbidity (sn: 22074205)
Measured in: () Directly Submerged Probe ☒ Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>0910</u>	<u>7.45</u>	<u>664</u>	<u>12.5</u>	<u>NA</u>	<u>13.3</u>	<u>-4.7</u>

Sample Information

Sample Type: ☒ Grab () Composite Sample Location: () Discharge Pipe () Pond () Ditch ☒ Leachate Sump

Location Description/Condition: Southwest corner of landfill

Sample Collection Equipment/Method: Bailer Sample Description (clarity/color): clear slight amber tint

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: VOCs + Metals Sample Time: 0910 Number of Containers: 4

Sampling Completion: Time 0924 Date 10-15-24 Samplers K Dye

On-Site Geological Services, D.P.C.
Groundwater Cutoff, Leachate, Surface Water, Sediment,
Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/15/24

Sampling Location: MH-32 Sample ID: MH32-1024 Arrival Time: 1114

Weather Conditions

Temp. 42 ° F () Sunny () ☒ Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: Steady Wind

Location Type

() Groundwater Cutoff, () ☒ Leachate, () Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: >3ft Estimated Flow: No Visible Flow Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 20H101689), Turbidity (sn: 22074205)
Measured in: () Directly Submerged Probe () ☒ Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1125</u>	<u>6.79</u>	<u>534.9</u>	<u>40.8</u>	<u>NA</u>	<u>11.8</u>	<u>72.6</u>

Sample Information

Sample Type: () Grab () Composite Sample Location: () Discharge Pipe () Pond () Ditch () ☒ Leachate Manhole

Location Description/Condition: Northwest corner of Landfill

Sample Collection Equipment/Method: dipper Sample Description (clarity/color): Slightly Cloudy Slight Amber tint
Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: Voc's + Metals + TDS Sample Time: 1125 Number of Containers: 5

Sampling Completion: Time 1138 Date 10-15-24 Samplers K Dye

On-Site Geological Services, D.P.C.
Groundwater Cutoff, Leachate, Surface Water, Sediment,
Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10/15/24

Sampling Location: MH-33 Sample ID: MH33-1024 Arrival Time: 1139

Weather Conditions

Temp. 42 ° F () Sunny () Partly Cloudy (X) Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: Steady Wind

Location Type

() Groundwater Cutoff, (X) Leachate, () Surface Water, () Sediment, Other _____

Flow and Depth Information (as appropriate)

Depth: 73ft Estimated Flow: No Visible Flow Comments: _____

Field Parameters (as appropriate)

Meter: YSI (sn: 201101689), Turbidity (sn: 22074205)
Measured in: () Directly Submerged Probe (X) Cup Note: Turbidity measured from a vial grab sample

Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)
<u>1145</u>	<u>7.41</u>	<u>325.3</u>	<u>16.1</u>	<u>NA</u>	<u>12.3</u>	<u>43.1</u>

Sample Information

Sample Type: (X) Grab () Composite Sample Location: () Discharge Pipe () Pond () Ditch (X) Manhole ~~Leachate Sump~~

Location Description/Condition: Southeast corner of landfill

Sample Collection Equipment/Method: Dipper Sample Description (clarity/color): Clear slight yellow tint
Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: Vic's + Metals + TDS Sample Time: 1145 Number of Containers: 5

Sampling Completion: Time 1159 Date 10-15-24 Samplers K O'Leary

On-Site Geological Services, D.P.C.

Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-15-24

Sampling Location: WAL-2 Sample ID: WAL2-1024 Arrival Time: 1030
0930 KD

Weather Conditions

Temp. 42° F () Sunny ☒ Partly Cloudy () Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: 0-5 mph

Sample Information

Sample Type: ☒ Grab () Composite

Sample Location: Hose bibb on Back of Trailer

Location Description/Condition: _____

Sample Collection Equipment/Method: Direct Grab Sample Description (clarity/color): Clear NO Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: Vols + Metals Sample Time: 1045 Number of Containers: 4

Comment:

Sampling Completion: Time 1101 Date 10-15-24 Samplers K Dye

On-Site Geological Services, D.P.C.

Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 11/14/24

Sampling Location: WAL-2 Sample ID: WAL2-1124 Arrival Time: 1300

Weather Conditions

Temp. 41 ° F () Sunny () Partly Cloudy (☒) Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: light to moderate

Sample Information

Sample Type: (☒) Grab () Composite Sample Location: Kitchen Sink CWT

Location Description/Condition: Good - owner indicates water has been running

Sample Collection Equipment/Method: direct grab Sample Description (clarity/color): clear, no color

Sample Odor: none Other Observations/Comments: _____

Analysis Requested: metals Sample Time: 1310 Number of Containers: 1

Comment:

Sampling Completion: Time 1320 Date 11/14/24 Samplers J. Brandes

On-Site Geological Services, D.P.C. Residential Water Supply Sampling Field Form

Project: Wellsville/Andover Landfill

Date: 10-15-24

Sampling Location: WAL-19 Sample ID: WAL19Post-1024
WAL19Inter-1024 Arrival Time: 0930

Weather Conditions

Temp. 42° F () Sunny () Partly Cloudy ☒ Cloudy () Light Rain () Hvy. Rain () Snow

Wind Conditions: _____

Sample Information

Sample Type: ☒ Grab () Composite

Sample Location: House

Location Description/Condition: Post Kitchen Sink - Inter Basement Between Filters - Basement pre filter

Sample Collection Equipment/Method: Direct Grab Sample Description (clarity/color): Clear No Color

Sample Odor: No odor Other Observations/Comments: _____

Analysis Requested: VOC's Sample Time: 0940 Post
0950 Inter Number of Containers: 9
1000 Pre

Comment:

Sampling Completion: Time 1013 Date 10-15-24 Samplers K Dye

Appendix D

Laboratory Analytical Reports



April 29, 2024

Service Request No:R2403206

Mr. Jon Brandes
On-Site Technical Services, Inc.
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: Wellsville-Andover LF

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory April 18, 2024
For your reference, these analyses have been assigned our service request number **R2403206**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE

+1 585 288 5380

FAX

+1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water, Water

Service Request: R2403206
Date Received: 04/18/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Five drinking water, water samples were received for analysis at ALS Environmental on 04/18/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 524.2, 04/23/2024: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260C, 04/24/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

A handwritten signature in black ink, appearing to read "J. Amato".

Approved by _____

Date 04/29/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: SWS1-0424			Lab ID: R2403206-004			

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO ₃	96.7			2.0	mg/L	SM 2320 B-1997 (2011)
Barium, Total	23		3	20	ug/L	6010C
Calcium, Total	25400		300	1000	ug/L	6010C
Carbon, Total Organic (TOC)	6.8			1.0	mg/L	SM 5310 B-2014
Chemical Oxygen Demand, Total	29.4			5.0	mg/L	410.4
Chloride	17.3			2.0	mg/L	300.0
cis-1,2-Dichloroethene	1.5		0.23	1.0	ug/L	8260C
Color, True	37.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Iron, Total	700		70	100	ug/L	6010C
Magnesium, Total	8800		30	1000	ug/L	6010C
Manganese, Total	37		4	10	ug/L	6010C
Nitrogen, Total Kjeldahl (TKN)	0.62			0.20	mg/L	351.2
pH of Color Analysis	7.58				pH Units	SM 2120 B-2001 (2011)
Potassium, Total	2400		400	2000	ug/L	6010C
Sodium, Total	11900		300	1000	ug/L	6010C
Solids, Total Dissolved (TDS)	146			10	mg/L	SM 2540 C-2015
Trichloroethene	0.51	J	0.20	1.0	ug/L	8260C
Zinc, Total	14	J	3	20	ug/L	6010C

CLIENT ID: WAL19Pre-0424			Lab ID: R2403206-001			

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	1.6		0.20	0.50	ug/L	524.2
Trichloroethene	2.3		0.20	0.50	ug/L	524.2



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF

Service Request:R2403206

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2403206-001	WAL19Pre-0424	4/17/2024	1050
R2403206-002	WAL19Inter-0424	4/17/2024	1040
R2403206-003	WAL19Post-0424	4/17/2024	1035
R2403206-004	SWS1-0424	4/17/2024	1130
R2403206-005	Trip Blank	4/17/2024	1130



72 Railroad Ave.
Wellsville, NY 14895

Project Manager	Jon Brandes

Project:	WAL - Semiannual Sampling

Telephone No.
585-593-1824

Email: jonb@on-sitehs.com

Page 1 of 1

Method of Shipment	

Special Detection	
Limit/Reporting	

Cr6 7196/SM3500; BOD CT; Cr6 7199/218.6
353.2 NO₂; OPO₄; 300 NO₂/NO₃; Sulfide
RES Cl; DO; Ferrous Iron; Sulfite; UV 254; CHL A
Color; Turbidity; Set Solids

[illegible]

P	E	M	A	B	K	S

Sample Received Intact:	Yes	No

Temperature received:	Ice	No ice

Relinqu. by sampler (Sign & Print Name)

Date 4/17/24 Time 1300

Received by (Sign & Print Name)

Sarah Schwartzbauer 4/18/24 1230

Lab Work No.

Relinquished by

Date	Time

Received by

Relinquished by

Date	Time

Received by

Relinquished by

Date	Time

Received by laboratory

Date	Time

R2403206

5

On-Site Technical Services, Inc.
Wellesville-Andover LF





Cooler Receipt and Preservation Check Form

R2403206

5

On-Site Technical Services, Inc.
Wellesville-Andover LF

Project/Client _____ Folder Number _____

Cooler received on 4/18/24 by: SES COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>(Y)</u> N	5a	Perchlorate samples have required headspace?	Y N <u>(NA)</u>
2	Custody papers properly completed (ink, signed)?	<u>(Y)</u> N	5b	Did <u>(VOA)</u> vials, <u>(Alk)</u> or Sulfide have sig* bubbles?	Y <u>(N)</u> NA
3	Did all bottles arrive in good condition (unbroken)?	<u>(Y)</u> N	6	Where did the bottles originate?	<u>(ALS)</u> ROC CLIENT
4	Circle: <u>(Wet)</u> Ice Dry Ice Gel packs present?	<u>(Y)</u> N	7	Soil VOA received as: Bulk Encore 5035set	<u>(NA)</u>

8. Temperature Readings Date: 4/18/24 Time: 1238 ID: IR#12 (R#1) From: Temp Blank (Sample) Bottle

Observed Temp (°C)	<u>1.9</u>						
Within 0-6°C?	<u>(Y)</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____All samples held in storage location: SMD by SES on 4/18/24 at 1240
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 4/18/24 Time: 1307 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Were dissolved metals filtered in the field? YES NO (N/A)
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Fedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH							
≤2	<u>213623</u>	HNO ₃	<u>✓</u>	<u>240023721F 5/25</u>					
≤2	<u>213623</u>	H ₂ SO ₄	<u>✓</u>	<u>24001282 3/26</u>					
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522	<u>✓</u>	If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate							
		HCl	** **	<u>24001661 4/26</u>					

**VOAs and 1664 Not to be tested before analysis.
Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).Bottle lot numbers: 021224-2EKJ, 021224-4EKI, 082123-2ERD,

Explain all Discrepancies/ Other Comments:

050123-4ERW, 112723-3AXH,
Ascorbic acid: A0441326 exp. 4/25 012224-3EAI

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF

Service Request: R2403206

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
524.2	Drinking Water	m,p-Xylenes
524.2	Drinking Water	o-Xylene

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF/

Service Request: R2403206

Sample Name: WAL19Pre-0424
Lab Code: R2403206-001
Sample Matrix: Drinking Water

Date Collected: 04/17/24
Date Received: 04/18/24

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Inter-0424
Lab Code: R2403206-002
Sample Matrix: Drinking Water

Date Collected: 04/17/24
Date Received: 04/18/24

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Post-0424
Lab Code: R2403206-003
Sample Matrix: Drinking Water

Date Collected: 04/17/24
Date Received: 04/18/24

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: SWS1-0424
Lab Code: R2403206-004
Sample Matrix: Water

Date Collected: 04/17/24
Date Received: 04/18/24

Analysis Method
300.0
350.1
351.2
410.4
420.4

Extracted/Digested By

Analyzed By
KAWONG
KWONG
MROGERSON
SDUBE
BBOWE

6010C
8260C
SM 2120 B-2001(2011)
SM 2320 B-1997(2011)
SM 2540 C-2015

CDISTEFANO

NMANSEN
FNAEGLER
SBIRNBERG
KAWONG
HCASTROVINCI

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF/

Service Request: R2403206

Sample Name: SWS1-0424
Lab Code: R2403206-004
Sample Matrix: Water

Date Collected: 04/17/24
Date Received: 04/18/24

Analysis Method
SM 5210 B-2016
SM 5310 B-2014

Extracted/Digested By

Analyzed By
SZOGBY
KAWONG

Sample Name: Trip Blank
Lab Code: R2403206-005
Sample Matrix: Water

Date Collected: 04/17/24
Date Received: 04/18/24

Analysis Method
8260C

Extracted/Digested By

Analyzed By
FNAEGLER



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Volatile Organic Compounds by GC/MS

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: 04/17/24 10:50
Date Received: 04/18/24 12:30

Sample Name: WAL19Pre-0424
Lab Code: R2403206-001

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Bromobenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Bromochloromethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
Bromodichloromethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
Bromoform	0.50 U	0.50	0.24	1	04/23/24 18:17	
Bromomethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	04/23/24 18:17	
tert-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
sec-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
n-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	04/23/24 18:17	
Chlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Chloroethane	0.50 U	0.50	0.23	1	04/23/24 18:17	
Chloroform	0.50 U	0.50	0.44	1	04/23/24 18:17	
Chloromethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
2-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 18:17	
4-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Dibromochloromethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
Dibromomethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 18:17	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 18:17	
cis-1,2-Dichloroethene	1.6	0.50	0.20	1	04/23/24 18:17	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:17	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 18:17	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Ethylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Isopropylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Methylene Chloride	0.50 U	0.50	0.20	1	04/23/24 18:17	
Naphthalene	0.50 U	0.50	0.23	1	04/23/24 18:17	
n-Propylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Styrene	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 18:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: 04/17/24 10:50
Date Received: 04/18/24 12:30

Sample Name: WAL19Pre-0424
Lab Code: R2403206-001

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Toluene	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	04/23/24 18:17	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	04/23/24 18:17	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
Trichloroethene	2.3	0.50	0.20	1	04/23/24 18:17	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:17	
Vinyl Chloride	0.50 U	0.50	0.22	1	04/23/24 18:17	
m,p-Xylenes	1.0 U	1.0	0.20	1	04/23/24 18:17	
o-Xylene	0.50 U	0.50	0.20	1	04/23/24 18:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	70 - 130	04/23/24 18:17	
1,2-Dichlorobenzene-d4	105	70 - 130	04/23/24 18:17	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: 04/17/24 10:40
Date Received: 04/18/24 12:30

Sample Name: WAL19Inter-0424
Lab Code: R2403206-002

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Bromobenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Bromochloromethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
Bromodichloromethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
Bromoform	0.50 U	0.50	0.24	1	04/23/24 18:41	
Bromomethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	04/23/24 18:41	
tert-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
sec-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
n-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	04/23/24 18:41	
Chlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Chloroethane	0.50 U	0.50	0.23	1	04/23/24 18:41	
Chloroform	0.50 U	0.50	0.44	1	04/23/24 18:41	
Chloromethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
2-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 18:41	
4-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Dibromochloromethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
Dibromomethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 18:41	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 18:41	
cis-1,2-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 18:41	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:41	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 18:41	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Ethylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Isopropylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Methylene Chloride	0.50 U	0.50	0.20	1	04/23/24 18:41	
Naphthalene	0.50 U	0.50	0.23	1	04/23/24 18:41	
n-Propylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Styrene	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 18:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: 04/17/24 10:40
Date Received: 04/18/24 12:30

Sample Name: WAL19Inter-0424
Lab Code: R2403206-002

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Toluene	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	04/23/24 18:41	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	04/23/24 18:41	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
Trichloroethene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 18:41	
Vinyl Chloride	0.50 U	0.50	0.22	1	04/23/24 18:41	
m,p-Xylenes	1.0 U	1.0	0.20	1	04/23/24 18:41	
o-Xylene	0.50 U	0.50	0.20	1	04/23/24 18:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	70 - 130	04/23/24 18:41	
1,2-Dichlorobenzene-d4	98	70 - 130	04/23/24 18:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: 04/17/24 10:35
Date Received: 04/18/24 12:30

Sample Name: WAL19Post-0424
Lab Code: R2403206-003

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Bromobenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Bromochloromethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
Bromodichloromethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
Bromoform	0.50 U	0.50	0.24	1	04/23/24 19:06	
Bromomethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	04/23/24 19:06	
tert-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
sec-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
n-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	04/23/24 19:06	
Chlorobenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Chloroethane	0.50 U	0.50	0.23	1	04/23/24 19:06	
Chloroform	0.50 U	0.50	0.44	1	04/23/24 19:06	
Chloromethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
2-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 19:06	
4-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Dibromochloromethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
Dibromomethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 19:06	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 19:06	
cis-1,2-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 19:06	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 19:06	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 19:06	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Ethylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Isopropylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Methylene Chloride	0.50 U	0.50	0.20	1	04/23/24 19:06	
Naphthalene	0.50 U	0.50	0.23	1	04/23/24 19:06	
n-Propylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Styrene	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 19:06	

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: 04/17/24 10:35
Date Received: 04/18/24 12:30

Sample Name: WAL19Post-0424
Lab Code: R2403206-003

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Toluene	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	04/23/24 19:06	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	04/23/24 19:06	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
Trichloroethene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 19:06	
Vinyl Chloride	0.50 U	0.50	0.22	1	04/23/24 19:06	
m,p-Xylenes	1.0 U	1.0	0.20	1	04/23/24 19:06	
o-Xylene	0.50 U	0.50	0.20	1	04/23/24 19:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	70 - 130	04/23/24 19:06	
1,2-Dichlorobenzene-d4	103	70 - 130	04/23/24 19:06	

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: 04/17/24 11:30
Date Received: 04/18/24 12:30

Sample Name: SWS1-0424
Lab Code: R2403206-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	04/24/24 19:14	
Benzene	1.0 U	1.0	0.20	1	04/24/24 19:14	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
Bromoform	1.0 U	1.0	0.25	1	04/24/24 19:14	
Bromomethane	1.0 U	1.0	0.70	1	04/24/24 19:14	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/24/24 19:14	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/24/24 19:14	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/24/24 19:14	
Chlorobenzene	1.0 U	1.0	0.20	1	04/24/24 19:14	
Chloroethane	1.0 U	1.0	0.23	1	04/24/24 19:14	
Chloroform	1.0 U	1.0	0.51	1	04/24/24 19:14	
Chloromethane	1.0 U	1.0	0.80	1	04/24/24 19:14	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	04/24/24 19:14	
cis-1,2-Dichloroethene	1.5	1.0	0.23	1	04/24/24 19:14	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/24/24 19:14	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/24/24 19:14	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/24/24 19:14	
Ethylbenzene	1.0 U	1.0	0.20	1	04/24/24 19:14	
2-Hexanone	5.0 U	5.0	0.20	1	04/24/24 19:14	
Methylene Chloride	1.0 U	1.0	0.65	1	04/24/24 19:14	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	04/24/24 19:14	
Styrene	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
Tetrachloroethene	1.0 U	1.0	0.21	1	04/24/24 19:14	
Toluene	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/24/24 19:14	
Trichloroethene	0.51 J	1.0	0.20	1	04/24/24 19:14	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/24/24 19:14	
o-Xylene	1.0 U	1.0	0.20	1	04/24/24 19:14	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/24/24 19:14	

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: 04/17/24 11:30
Date Received: 04/18/24 12:30

Sample Name: SWS1-0424
Lab Code: R2403206-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	04/24/24 19:14	
Toluene-d8	101	87 - 121	04/24/24 19:14	
Dibromofluoromethane	97	80 - 116	04/24/24 19:14	

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: 04/17/24 11:30
Date Received: 04/18/24 12:30

Sample Name: Trip Blank
Lab Code: R2403206-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	04/24/24 18:52	
Benzene	1.0 U	1.0	0.20	1	04/24/24 18:52	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
Bromoform	1.0 U	1.0	0.25	1	04/24/24 18:52	
Bromomethane	1.0 U	1.0	0.70	1	04/24/24 18:52	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/24/24 18:52	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/24/24 18:52	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/24/24 18:52	
Chlorobenzene	1.0 U	1.0	0.20	1	04/24/24 18:52	
Chloroethane	1.0 U	1.0	0.23	1	04/24/24 18:52	
Chloroform	1.0 U	1.0	0.51	1	04/24/24 18:52	
Chloromethane	1.0 U	1.0	0.80	1	04/24/24 18:52	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	04/24/24 18:52	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/24/24 18:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/24/24 18:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/24/24 18:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/24/24 18:52	
Ethylbenzene	1.0 U	1.0	0.20	1	04/24/24 18:52	
2-Hexanone	5.0 U	5.0	0.20	1	04/24/24 18:52	
Methylene Chloride	1.0 U	1.0	0.65	1	04/24/24 18:52	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	04/24/24 18:52	
Styrene	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
Tetrachloroethene	1.0 U	1.0	0.21	1	04/24/24 18:52	
Toluene	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/24/24 18:52	
Trichloroethene	1.0 U	1.0	0.20	1	04/24/24 18:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/24/24 18:52	
o-Xylene	1.0 U	1.0	0.20	1	04/24/24 18:52	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/24/24 18:52	

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: 04/17/24 11:30
Date Received: 04/18/24 12:30

Sample Name: Trip Blank
Lab Code: R2403206-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	04/24/24 18:52	
Toluene-d8	103	87 - 121	04/24/24 18:52	
Dibromofluoromethane	96	80 - 116	04/24/24 18:52	



Metals

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Sample Name: SWS1-0424
Lab Code: R2403206-004

Service Request: R2403206
Date Collected: 04/17/24 11:30
Date Received: 04/18/24 12:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	10 U	ug/L	10	6	1	04/23/24 01:30	04/18/24	
Barium, Total	6010C	23	ug/L	20	3	1	04/23/24 01:30	04/18/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	04/23/24 01:30	04/18/24	
Calcium, Total	6010C	25400	ug/L	1000	300	1	04/23/24 01:30	04/18/24	
Chromium, Total	6010C	10 U	ug/L	10	2	1	04/23/24 01:30	04/18/24	
Copper, Total	6010C	20 U	ug/L	20	4	1	04/23/24 01:30	04/18/24	
Iron, Total	6010C	700	ug/L	100	70	1	04/23/24 01:30	04/18/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	3.2	1	04/23/24 01:30	04/18/24	
Magnesium, Total	6010C	8800	ug/L	1000	30	1	04/23/24 01:30	04/18/24	
Manganese, Total	6010C	37	ug/L	10	4	1	04/23/24 01:30	04/18/24	
Nickel, Total	6010C	40 U	ug/L	40	3	1	04/23/24 01:30	04/18/24	
Potassium, Total	6010C	2400	ug/L	2000	400	1	04/23/24 01:30	04/18/24	
Selenium, Total	6010C	10 U	ug/L	10	7	1	04/23/24 01:30	04/18/24	
Sodium, Total	6010C	11900	ug/L	1000	300	1	04/23/24 01:30	04/18/24	
Zinc, Total	6010C	14 J	ug/L	20	3	1	04/23/24 01:30	04/18/24	



General Chemistry

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Sample Name: SWS1-0424
Lab Code: R2403206-004

Service Request: R2403206
Date Collected: 04/17/24 11:30
Date Received: 04/18/24 12:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	96.7	mg/L	2.0	1	04/22/24 18:03	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	04/27/24 12:34	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	04/19/24 08:57	NA	
Bromide	300.0	1.0 U	mg/L	1.0	10	04/18/24 17:22	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	6.8	mg/L	1.0	1	04/25/24 05:45	NA	
Chemical Oxygen Demand, Total	410.4	29.4	mg/L	5.0	1	04/23/24 16:13	NA	
Chloride	300.0	17.3	mg/L	2.0	10	04/18/24 17:22	NA	
Color, True	SM 2120 B-2001(2011)	37.0	ColorUnits	1.0	1	04/18/24 16:26	NA	
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	04/18/24 17:22	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.62	mg/L	0.20	1	04/26/24 21:00	04/25/24	
pH of Color Analysis	SM 2120 B-2001(2011)	7.58	pH Units	-	1	04/18/24 16:49	NA	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	04/22/24 14:16	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	146	mg/L	10	1	04/23/24 11:30	NA	
Sulfate	300.0	2.0 U	mg/L	2.0	10	04/18/24 17:22	NA	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206

SURROGATE RECOVERY SUMMARY
Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Sample Name	Lab Code	1,2-Dichlorobenzene-d4	4-Bromofluorobenzene
		70 - 130	70 - 130
WAL19Pre-0424	R2403206-001	105	105
WAL19Inter-0424	R2403206-002	98	101
WAL19Post-0424	R2403206-003	103	103
Lab Control Sample	RQ2404287-03	106	104
Duplicate Lab Control Sample	RQ2404287-04	117	112
Method Blank	RQ2404287-05	102	106

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2404287-05

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Bromobenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Bromochloromethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
Bromodichloromethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
Bromoform	0.50 U	0.50	0.24	1	04/23/24 17:27	
Bromomethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	04/23/24 17:27	
tert-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
sec-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
n-Butylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	04/23/24 17:27	
Chlorobenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Chloroethane	0.50 U	0.50	0.23	1	04/23/24 17:27	
Chloroform	0.50 U	0.50	0.44	1	04/23/24 17:27	
Chloromethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
2-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 17:27	
4-Chlorotoluene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Dibromochloromethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
Dibromomethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 17:27	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 17:27	
cis-1,2-Dichloroethene	0.50 U	0.50	0.20	1	04/23/24 17:27	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	04/23/24 17:27	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 17:27	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Ethylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Isopropylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Methylene Chloride	0.33 J	0.50	0.20	1	04/23/24 17:27	
Naphthalene	0.50 U	0.50	0.23	1	04/23/24 17:27	
n-Propylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Styrene	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	04/23/24 17:27	

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2404287-05

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Toluene	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	04/23/24 17:27	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	04/23/24 17:27	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
Trichloroethene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	04/23/24 17:27	
Vinyl Chloride	0.50 U	0.50	0.22	1	04/23/24 17:27	
m,p-Xylenes	1.0 U	1.0	0.20	1	04/23/24 17:27	
o-Xylene	0.50 U	0.50	0.20	1	04/23/24 17:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	70 - 130	04/23/24 17:27	
1,2-Dichlorobenzene-d4	102	70 - 130	04/23/24 17:27	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Analyzed: 04/23/24

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2404287-03					Duplicate Lab Control Sample RQ2404287-04					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzene	524.2	5.78	5.00	116	5.38	5.00	108	70-130	7	20
Bromobenzene	524.2	6.12	5.00	122	5.56	5.00	111	70-130	10	20
Bromochloromethane	524.2	5.64	5.00	113	5.23	5.00	105	70-130	8	20
Bromodichloromethane	524.2	5.02	5.00	100	4.52	5.00	90	70-130	10	20
Bromoform	524.2	5.35	5.00	107	5.03	5.00	101	70-130	6	20
Bromomethane	524.2	6.40	5.00	128	5.96	5.00	119	70-130	7	20
Methyl tert-Butyl Ether	524.2	5.54	5.00	111	5.02	5.00	100	70-130	10	20
tert-Butylbenzene	524.2	6.49	5.00	130	6.19	5.00	124	70-130	5	20
sec-Butylbenzene	524.2	6.59	5.00	132 *	6.14	5.00	123	70-130	7	20
n-Butylbenzene	524.2	6.69	5.00	134 *	6.36	5.00	127	70-130	5	20
Carbon Tetrachloride	524.2	5.62	5.00	112	5.01	5.00	100	70-130	11	20
Chlorobenzene	524.2	5.72	5.00	114	5.47	5.00	109	70-130	4	20
Chloroethane	524.2	5.18	5.00	104	5.01	5.00	100	70-130	3	20
Chloroform	524.2	5.25	5.00	105	4.78	5.00	96	70-130	9	20
Chloromethane	524.2	6.34	5.00	127	6.19	5.00	124	70-130	2	20
2-Chlorotoluene	524.2	6.16	5.00	123	5.91	5.00	118	70-130	4	20
4-Chlorotoluene	524.2	6.20	5.00	124	5.94	5.00	119	70-130	4	20
Dibromochloromethane	524.2	5.22	5.00	104	4.73	5.00	95	70-130	10	20
Dibromomethane	524.2	4.86	5.00	97	4.53	5.00	91	70-130	7	20
1,2-Dichlorobenzene	524.2	5.97	5.00	119	5.83	5.00	117	70-130	2	20
1,4-Dichlorobenzene	524.2	6.18	5.00	124	5.98	5.00	120	70-130	3	20
1,3-Dichlorobenzene	524.2	6.28	5.00	126	6.07	5.00	121	70-130	3	20
Dichlorodifluoromethane	524.2	3.95	5.00	79	3.86	5.00	77	70-130	2	20
1,1-Dichloroethane	524.2	5.07	5.00	101	4.69	5.00	94	70-130	8	20
1,2-Dichloroethane	524.2	5.07	5.00	101	4.54	5.00	91	70-130	11	20
1,1-Dichloroethene	524.2	5.27	5.00	105	4.50	5.00	90	70-130	16	20
trans-1,2-Dichloroethene	524.2	5.19	5.00	104	4.84	5.00	97	70-130	7	20
cis-1,2-Dichloroethene	524.2	5.06	5.00	101	4.83	5.00	97	70-130	5	20
2,2-Dichloropropane	524.2	5.75	5.00	115	5.44	5.00	109	70-130	6	20
1,2-Dichloropropane	524.2	5.26	5.00	105	4.77	5.00	95	70-130	10	20
1,3-Dichloropropane	524.2	5.33	5.00	107	4.83	5.00	97	70-130	10	20
trans-1,3-Dichloropropene	524.2	5.27	5.00	105	4.75	5.00	95	70-130	10	20
cis-1,3-Dichloropropene	524.2	5.48	5.00	110	5.10	5.00	102	70-130	7	20

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Drinking Water

Service Request: R2403206
Date Analyzed: 04/23/24

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2404287-03					Duplicate Lab Control Sample RQ2404287-04					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethylbenzene	524.2	6.29	5.00	126	5.75	5.00	115	70-130	9	20
Hexachlorobutadiene	524.2	6.28	5.00	126	6.28	5.00	126	70-130	<1	20
Isopropylbenzene	524.2	6.01	5.00	120	5.73	5.00	115	70-130	5	20
p-Isopropyltoluene	524.2	6.59	5.00	132 *	6.29	5.00	126	70-130	5	20
Methylene Chloride	524.2	6.22	5.00	124	5.93	5.00	119	70-130	5	20
Naphthalene	524.2	5.84	5.00	117	5.49	5.00	110	70-130	6	20
n-Propylbenzene	524.2	6.47	5.00	129	6.17	5.00	123	70-130	5	20
Styrene	524.2	6.12	5.00	122	5.79	5.00	116	70-130	6	20
1,1,1,2-Tetrachloroethane	524.2	5.14	5.00	103	4.85	5.00	97	70-130	6	20
1,1,2,2-Tetrachloroethane	524.2	5.23	5.00	105	4.64	5.00	93	70-130	12	20
Tetrachloroethene	524.2	5.68	5.00	114	5.40	5.00	108	70-130	5	20
Toluene	524.2	5.87	5.00	117	5.37	5.00	107	70-130	9	20
1,2,4-Trichlorobenzene	524.2	6.30	5.00	126	5.87	5.00	117	70-130	7	20
1,2,3-Trichlorobenzene	524.2	6.16	5.00	123	5.97	5.00	119	70-130	3	20
1,1,2-Trichloroethane	524.2	5.20	5.00	104	4.79	5.00	96	70-130	8	20
Trichloroethene	524.2	5.57	5.00	111	4.84	5.00	97	70-130	14	20
Trichlorofluoromethane	524.2	5.54	5.00	111	5.08	5.00	102	70-130	9	20
1,2,3-Trichloropropane	524.2	5.40	5.00	108	4.45	5.00	89	70-130	19	20
1,3,5-Trimethylbenzene	524.2	6.24	5.00	125	5.81	5.00	116	70-130	7	20
1,2,4-Trimethylbenzene	524.2	6.24	5.00	125	5.80	5.00	116	70-130	7	20
Vinyl Chloride	524.2	5.29	5.00	106	5.13	5.00	103	70-130	3	20
m,p-Xylenes	524.2	12.5	10.0	125	11.9	10.0	119	70-130	5	20
o-Xylene	524.2	6.17	5.00	123	5.86	5.00	117	70-130	5	20

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
SWS1-0424	R2403206-004	96	97	101
Trip Blank	R2403206-005	96	96	103
Lab Control Sample	RQ2404338-03	98	97	99
Method Blank	RQ2404338-04	91	93	97

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2404338-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	04/24/24 12:26	
Benzene	1.0 U	1.0	0.20	1	04/24/24 12:26	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
Bromoform	1.0 U	1.0	0.25	1	04/24/24 12:26	
Bromomethane	1.0 U	1.0	0.70	1	04/24/24 12:26	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/24/24 12:26	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/24/24 12:26	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/24/24 12:26	
Chlorobenzene	1.0 U	1.0	0.20	1	04/24/24 12:26	
Chloroethane	1.0 U	1.0	0.23	1	04/24/24 12:26	
Chloroform	1.0 U	1.0	0.51	1	04/24/24 12:26	
Chloromethane	1.0 U	1.0	0.80	1	04/24/24 12:26	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	04/24/24 12:26	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/24/24 12:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/24/24 12:26	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/24/24 12:26	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/24/24 12:26	
Ethylbenzene	1.0 U	1.0	0.20	1	04/24/24 12:26	
2-Hexanone	5.0 U	5.0	0.20	1	04/24/24 12:26	
Methylene Chloride	1.0 U	1.0	0.65	1	04/24/24 12:26	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	04/24/24 12:26	
Styrene	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
Tetrachloroethene	1.0 U	1.0	0.21	1	04/24/24 12:26	
Toluene	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/24/24 12:26	
Trichloroethene	1.0 U	1.0	0.20	1	04/24/24 12:26	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/24/24 12:26	
o-Xylene	1.0 U	1.0	0.20	1	04/24/24 12:26	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/24/24 12:26	

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2404338-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/24/24 12:26	
Toluene-d8	97	87 - 121	04/24/24 12:26	
Dibromofluoromethane	93	80 - 116	04/24/24 12:26	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Analyzed: 04/24/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2404338-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	16.7	20.0	84	40-161
Benzene	8260C	22.6	20.0	113	79-119
Bromodichloromethane	8260C	20.2	20.0	101	81-123
Bromoform	8260C	18.5	20.0	93	65-146
Bromomethane	8260C	16.0	20.0	80	42-166
2-Butanone (MEK)	8260C	15.9	20.0	80	61-137
Carbon Disulfide	8260C	18.3	20.0	92	66-128
Carbon Tetrachloride	8260C	18.8	20.0	94	70-127
Chlorobenzene	8260C	21.4	20.0	107	80-121
Chloroethane	8260C	16.1	20.0	80	62-131
Chloroform	8260C	22.2	20.0	111	79-120
Chloromethane	8260C	22.7	20.0	113	65-135
Dibromochloromethane	8260C	18.5	20.0	92	72-128
1,1-Dichloroethane	8260C	22.4	20.0	112	80-124
1,2-Dibromoethane	8260C	19.7	20.0	98	82-127
1,2-Dichloroethane	8260C	21.4	20.0	107	71-127
1,1-Dichloroethene	8260C	21.2	20.0	106	71-118
cis-1,2-Dichloroethene	8260C	22.2	20.0	111	80-121
trans-1,2-Dichloroethene	8260C	20.6	20.0	103	73-118
1,2-Dichloropropane	8260C	21.0	20.0	105	80-119
cis-1,3-Dichloropropene	8260C	19.1	20.0	95	77-122
trans-1,3-Dichloropropene	8260C	17.0	20.0	85	71-133
Ethylbenzene	8260C	22.0	20.0	110	76-120
2-Hexanone	8260C	16.4	20.0	82	63-124
Methylene Chloride	8260C	21.3	20.0	107	73-122
4-Methyl-2-pentanone (MIBK)	8260C	17.1	20.0	85	66-124
Styrene	8260C	21.8	20.0	109	80-124
1,1,2,2-Tetrachloroethane	8260C	19.7	20.0	98	78-126
Tetrachloroethene	8260C	21.4	20.0	107	72-125
Toluene	8260C	22.5	20.0	112	79-119
1,1,1-Trichloroethane	8260C	21.1	20.0	105	75-125
1,1,2-Trichloroethane	8260C	20.3	20.0	101	82-121
Trichloroethene	8260C	20.4	20.0	102	74-122

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206**Date Analyzed:** 04/24/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L**Basis:**NA**Lab Control Sample**

RQ2404338-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260C	19.2	20.0	96	74-159
o-Xylene	8260C	22.1	20.0	111	79-123
m,p-Xylenes	8260C	45.7	40.0	114	80-126



Metals

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2403206-MB

Service Request: R2403206
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	0.010 U	mg/L	0.010	0.006	1	04/22/24 23:47	04/18/24	
Barium, Total	6010C	20 U	ug/L	20	3	1	04/22/24 23:47	04/18/24	
Cadmium, Total	6010C	5.0 U	ug/L	5.0	0.4	1	04/22/24 23:47	04/18/24	
Calcium, Total	6010C	1000 U	ug/L	1000	300	1	04/22/24 23:47	04/18/24	
Chromium, Total	6010C	10 U	ug/L	10	2	1	04/22/24 23:47	04/18/24	
Copper, Total	6010C	20 U	ug/L	20	4	1	04/22/24 23:47	04/18/24	
Iron, Total	6010C	100 U	ug/L	100	70	1	04/22/24 23:47	04/18/24	
Lead, Total	6010C	5.0 U	ug/L	5.0	3.2	1	04/22/24 23:47	04/18/24	
Magnesium, Total	6010C	1000 U	ug/L	1000	30	1	04/22/24 23:47	04/18/24	
Manganese, Total	6010C	10 U	ug/L	10	4	1	04/22/24 23:47	04/18/24	
Nickel, Total	6010C	40 U	ug/L	40	3	1	04/22/24 23:47	04/18/24	
Potassium, Total	6010C	2000 U	ug/L	2000	400	1	04/22/24 23:47	04/18/24	
Selenium, Total	6010C	10 U	ug/L	10	7	1	04/22/24 23:47	04/18/24	
Sodium, Total	6010C	1000 U	ug/L	1000	300	1	04/22/24 23:47	04/18/24	
Zinc, Total	6010C	20 U	ug/L	20	3	1	04/22/24 23:47	04/18/24	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206**Date Analyzed:** 04/22/24

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L**Basis:**NA**Lab Control Sample**

R2403206-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010C	0.036	0.040	89	80-120
Selenium, Total	6010C	1.02	1.01	101	80-120

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QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Analyzed: 04/22/24

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2403206-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Barium, Total	6010C	2040	2000	102	80-120
Cadmium, Total	6010C	51.4	50.0	103	80-120
Calcium, Total	6010C	2050	2000	103	80-120
Chromium, Total	6010C	201	200	100	80-120
Copper, Total	6010C	256	250	103	80-120
Iron, Total	6010C	1040	1000	104	80-120
Lead, Total	6010C	513	500	103	80-120
Magnesium, Total	6010C	2070	2000	104	80-120
Manganese, Total	6010C	493	500	99	80-120
Nickel, Total	6010C	517	500	103	80-120
Potassium, Total	6010C	19500	20000	97	80-120
Sodium, Total	6010C	20200	20000	101	80-120
Zinc, Total	6010C	518	500	104	80-120



General Chemistry

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Analytical Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2403206-MB

Service Request: R2403206
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	04/22/24 13:48	NA	
Ammonia as Nitrogen, undistilled	350.1	0.050 U	mg/L	0.050	1	04/27/24 12:13	NA	
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	2.0 U	mg/L	2.0	1	04/19/24 16:00	NA	
Bromide	300.0	0.10 U	mg/L	0.10	1	04/18/24 15:27	NA	
Carbon, Total Organic (TOC)	SM 5310 B-2014	1.0 U	mg/L	1.0	1	04/25/24 02:03	NA	
Chemical Oxygen Demand, Total	410.4	5.0 U	mg/L	5.0	1	04/23/24 16:13	NA	
Chloride	300.0	0.20 U	mg/L	0.20	1	04/18/24 15:27	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	04/18/24 16:26	NA	
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	04/18/24 15:27	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.20 U	mg/L	0.20	1	04/26/24 20:42	04/25/24	
Phenolics, Total Recoverable	420.4	0.0050 U	mg/L	0.0050	1	04/22/24 12:38	NA	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	10 U	mg/L	10	1	04/23/24 11:30	NA	
Sulfate	300.0	0.20 U	mg/L	0.20	1	04/18/24 15:27	NA	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: 04/17/24
Date Received: 04/18/24
Date Analyzed: 4/18/24

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: SWS1-0424 **Units:** mg/L
Lab Code: R2403206-004 **Basis:** NA

Matrix Spike R2403206-004MS						Duplicate Matrix Spike R2403206-004DMS					
Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Bromide	300.0	1.0 U	9.2	10.0	92	9.3	10.0	93	90-110	<1	20
Chloride	300.0	17.3	35.8	20.0	92	35.7	20.0	92	90-110	<1	20
Nitrate as Nitrogen	300.0	1.0 U	9.4	10.0	94	9.5	10.0	95	90-110	<1	20
Sulfate	300.0	2.0 U	19.7	20.0	99	19.7	20.0	98	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: 04/17/24
Date Received: 04/18/24
Date Analyzed: 04/18/24

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SWS1-0424
Lab Code: R2403206-004

Units: ColorUnits
Basis: NA

				Duplicate Sample R2403206- 004DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
Color, True	SM 2120 B-2001(2011)	1.0	37.0	37.0	37.0	<1	5

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Collected: 04/17/24
Date Received: 04/18/24
Date Analyzed: 04/18/24

Replicate Sample Summary
General Chemistry Parameters

Sample Name: SWS1-0424
Lab Code: R2403206-004

Units: pH Units
Basis: NA

				Duplicate Sample R2403206- 004DUP			
Analyte Name	Analysis Method	MRL	Sample Result	Result	Average	RPD	RPD Limit
pH of Color Analysis	SM 2120 B-2001(2011)	-	7.58	7.58	7.58	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project: Wellsville-Andover LF
Sample Matrix: Water

Service Request: R2403206
Date Analyzed: 04/18/24 - 04/27/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2403206-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	26.2	25.0	105	80-120
Ammonia as Nitrogen, undistilled	350.1	0.449	0.500	90	90-110
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	213	198	107	85-115
Bromide	300.0	0.94	1.00	94	90-110
Carbon, Total Organic (TOC)	SM 5310 B-2014	25.1	25.0	100	80-121
Chemical Oxygen Demand, Total	410.4	49.8	50.0	100	90-110
Chloride	300.0	1.96	2.00	98	90-110
Nitrate as Nitrogen	300.0	0.97	1.00	97	90-110
Nitrogen, Total Kjeldahl (TKN)	351.2	2.58	2.50	103	90-110
Phenolics, Total Recoverable	420.4	0.0398	0.0400	99	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-2015	896	914	98	90-110
Sulfate	300.0	1.97	2.00	98	90-110



October 29, 2024

Service Request No:R2410389

Mr. Jon Brandes
On-Site Geological Services
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: WAL - Semiannual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory October 16, 2024
For your reference, these analyses have been assigned our service request number **R2410389**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE

+1 585 288 5380

FAX

+1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water, Water

Service Request: R2410389
Date Received: 10/16/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Seven drinking water, water samples were received for analysis at ALS Environmental on 10/16/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 524.2, 10/22/2024: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8260D, 10/24/2024: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260D, 10/24/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by 

Date 10/29/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MH32-1024			Lab ID: R2410389-006			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dichlorobenzene	1.3	J	1.0	5.0	ug/L	8260D
Barium, Total	86		3	20	ug/L	6010D
Calcium, Total	90100		300	1000	ug/L	6010D
Chromium, Total	3	J	2	10	ug/L	6010D
cis-1,2-Dichloroethene	750		1.2	5.0	ug/L	8260D
Copper, Total	9	J	4	20	ug/L	6010D
Iron, Total	3000		70	100	ug/L	6010D
Magnesium, Total	16800		30	1000	ug/L	6010D
Manganese, Total	850		4	10	ug/L	6010D
Methylene Chloride	26		3.3	5.0	ug/L	8260D
Nickel, Total	20	J	3	40	ug/L	6010D
Nitrate as Nitrogen	0.5	J	0.2	1.0	mg/L	300.0
Potassium, Total	3000		400	2000	ug/L	6010D
Sodium, Total	4300	B	300	1000	ug/L	6010D
Solids, Total Dissolved (TDS)	362		9	10	mg/L	SM 2540 C-2015
Toluene	1.1	J	1.0	5.0	ug/L	8260D
trans-1,2-Dichloroethene	2.1	J	1.0	5.0	ug/L	8260D
Trichloroethene (TCE)	200		1.0	5.0	ug/L	8260D
Vinyl Chloride	2.6	J	1.0	5.0	ug/L	8260D
Zinc, Total	25		3	20	ug/L	6010D

CLIENT ID: MH33-1024			Lab ID: R2410389-007			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dichlorobenzene	0.23	J	0.20	1.0	ug/L	8260D
Barium, Total	31		3	20	ug/L	6010D
Calcium, Total	55500		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	22		0.23	1.0	ug/L	8260D
Copper, Total	5	J	4	20	ug/L	6010D
Iron, Total	1470		70	100	ug/L	6010D
Magnesium, Total	13400		30	1000	ug/L	6010D
Manganese, Total	217		4	10	ug/L	6010D
Nickel, Total	12	J	3	40	ug/L	6010D
Nitrate as Nitrogen	0.4	J	0.2	1.0	mg/L	300.0
Potassium, Total	2100		400	2000	ug/L	6010D
Sodium, Total	3200	B	300	1000	ug/L	6010D
Solids, Total Dissolved (TDS)	229		9	10	mg/L	SM 2540 C-2015
Trichloroethene (TCE)	2.7		0.20	1.0	ug/L	8260D
Vinyl Chloride	1.3		0.20	1.0	ug/L	8260D
Zinc, Total	4	J	3	20	ug/L	6010D

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: WAL1-1024	Lab ID: R2410389-005

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Total	1.6		0.4	1.0	ug/L	200.8
Barium, Total	70.1		0.3	1.0	ug/L	200.8
Calcium, Total	41300		200	1000	ug/L	200.7
Copper, Total	5.6		0.7	1.0	ug/L	200.8
Magnesium, Total	14500		70	1000	ug/L	200.7
Manganese, Total	119		2	10	ug/L	200.7
Potassium, Total	1600	J	200	2000	ug/L	200.7
Sodium, Total	8800		200	1000	ug/L	200.7
Zinc, Total	22		7	20	ug/L	200.7

CLIENT ID: LS1-1024	Lab ID: R2410389-001

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	67		3	20	ug/L	6010D
Calcium, Total	94500		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	3.9		0.23	1.0	ug/L	8260D
Iron, Total	1380		70	100	ug/L	6010D
Magnesium, Total	25300		30	1000	ug/L	6010D
Manganese, Total	919		4	10	ug/L	6010D
Nickel, Total	13	J	3	40	ug/L	6010D
Potassium, Total	3600		400	2000	ug/L	6010D
Sodium, Total	18000		300	1000	ug/L	6010D
Trichloroethene (TCE)	0.28	J	0.20	1.0	ug/L	8260D

CLIENT ID: WAL19Pre-1024	Lab ID: R2410389-004

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	1.5		0.20	0.50	ug/L	524.2
Trichloroethene	1.7		0.20	0.50	ug/L	524.2



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling

Service Request:R2410389

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2410389-001	LS1-1024	10/15/2024	0910
R2410389-002	WAL19Post-1024	10/15/2024	0940
R2410389-003	WAL19Inter-1024	10/15/2024	0950
R2410389-004	WAL19Pre-1024	10/15/2024	1000
R2410389-005	WAL1-1024	10/15/2024	1045
R2410389-006	MH32-1024	10/15/2024	1125
R2410389-007	MH33-1024	10/15/2024	1145



Project Manager	Jon Brandes

Telephone No. 585-593-1824	Email: jonb@on-sitehs.com

ups

Special Detection Limit/Reporting	

Sample I.D.

Lab Sample No.

No. of Containers

Soil

Water

Air

Other

ye

NC

Sampling Date

Sampling Time

VOCs EPA 8260 (HCL)

VOCs EPA 524.2 (Na2S2O3+HCL)

T-Metals (HNO₃)

TDS, NO3 (NP) (Manhole)

PFAS EPA 537 (Trizma, HDPE)

1,4 Dioxane 522

(Na₂SO₃+NaHSO₄ Amber Glass)

Cr6 7196/SM3500 ; BOD ; CT ; Cr6 7199/218.6
353.2 NO2 ; OPO4 ; 300 NO2/NO3 ; Sulfide
RES Cl ; DO ; Ferrous Iron ; Sulfite ; UV 254 ; CHL A
Color ; Turbidity ; Set Solids

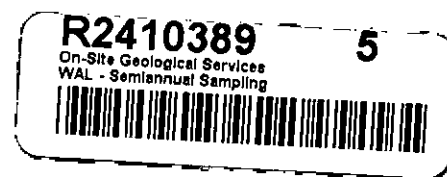
REMARKS

Date 01/16/24 Time 13:00

Lab Work No.

**On-Site Geological Services
WAL - Semiannual Sampling**





Cooler Receipt and Preservation Check Form

Project/Client ON-Site Folder Number _____

Cooler received on 10/16/24 by: KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u>	N
2	Custody papers properly completed (ink, signed)?	<u>Y</u>	N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u>	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u>	N

5a	Did VOA vials have sig* bubbles?	Y	<u>N</u>	NA
5b	Sig* bubbles: Alk?	Y	N	<u>NA</u>
	Sulfide?	Y	N	<u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT		
7	Soil VOA received as:	Bulk	Encore	5035set <u>NA</u>

8. Temperature Readings Date: 10/16/24 Time: 13:38 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>4.7</u>	<u>1.2</u>					
Within 0-6°C?	Y	N	<u>Y</u>	N	Y	N	Y
If <0°C, were samples frozen?	Y	N	Y	N	Y	N	Y

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMD by KE on 10/16/24 at 13:46
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/17/24 Time: 8:58 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>204524</u>	HNO ₃	<u>✓</u>		<u>bottle label →</u>					
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>23040119</u>					

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 051324-3EAI

Explain all Discrepancies/ Other Comments:

AA: A0441326 exp- 4/27

Labels secondary reviewed by: SES

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling

Service Request: R2410389

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
524.2	Drinking Water	m,p-Xylenes
524.2	Drinking Water	o-Xylene

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410389

Sample Name: LS1-1024
Lab Code: R2410389-001
Sample Matrix: Water

Date Collected: 10/15/24
Date Received: 10/16/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: WAL19Post-1024
Lab Code: R2410389-002
Sample Matrix: Drinking Water

Date Collected: 10/15/24
Date Received: 10/16/24

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Inter-1024
Lab Code: R2410389-003
Sample Matrix: Drinking Water

Date Collected: 10/15/24
Date Received: 10/16/24

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: WAL19Pre-1024
Lab Code: R2410389-004
Sample Matrix: Drinking Water

Date Collected: 10/15/24
Date Received: 10/16/24

Analysis Method
524.2

Extracted/Digested By

Analyzed By
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410389

Sample Name: WAL1-1024
Lab Code: R2410389-005
Sample Matrix: Drinking Water

Date Collected: 10/15/24
Date Received: 10/16/24

Analysis Method

200.7
200.8
524.2

Extracted/Digested By

CDISTEFANO
CDISTEFANO

Analyzed By

NMANSEN
NMANSEN
KRUEST

Sample Name: MH32-1024
Lab Code: R2410389-006
Sample Matrix: Water

Date Collected: 10/15/24
Date Received: 10/16/24

Analysis Method

300.0
6010D
8260D
SM 2540 C-2015

Extracted/Digested By

CDISTEFANO

Analyzed By

KAWONG
NMANSEN
KRUEST
HCASTROVINCI

Sample Name: MH33-1024
Lab Code: R2410389-007
Sample Matrix: Water

Date Collected: 10/15/24
Date Received: 10/16/24

Analysis Method

300.0
6010D
8260D
SM 2540 C-2015

Extracted/Digested By

CDISTEFANO

Analyzed By

KAWONG
NMANSEN
KRUEST
HCASTROVINCI



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 09:40
Date Received: 10/16/24 13:00

Sample Name: WAL19Post-1024
Lab Code: R2410389-002

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Bromobenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Bromochloromethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
Bromodichloromethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
Bromoform	0.50 U	0.50	0.24	1	10/22/24 16:58	
Bromomethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	10/22/24 16:58	
tert-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
sec-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
n-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	10/22/24 16:58	
Chlorobenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Chloroethane	0.50 U	0.50	0.23	1	10/22/24 16:58	
Chloroform	0.50 U	0.50	0.44	1	10/22/24 16:58	
Chloromethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
2-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 16:58	
4-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Dibromochloromethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
Dibromomethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 16:58	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 16:58	
cis-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 16:58	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 16:58	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 16:58	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Ethylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Isopropylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Methylene Chloride	0.50 U	0.50	0.20	1	10/22/24 16:58	
Naphthalene	0.50 U	0.50	0.23	1	10/22/24 16:58	
n-Propylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Styrene	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 16:58	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 09:40
Date Received: 10/16/24 13:00

Sample Name: WAL19Post-1024
Lab Code: R2410389-002

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Toluene	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	10/22/24 16:58	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	10/22/24 16:58	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
Trichloroethene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 16:58	
Vinyl Chloride	0.50 U	0.50	0.22	1	10/22/24 16:58	
m,p-Xylenes	1.0 U	1.0	0.20	1	10/22/24 16:58	
o-Xylene	0.50 U	0.50	0.20	1	10/22/24 16:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	70 - 130	10/22/24 16:58	
1,2-Dichlorobenzene-d4	97	70 - 130	10/22/24 16:58	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 09:50
Date Received: 10/16/24 13:00

Sample Name: WAL19Inter-1024
Lab Code: R2410389-003

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Bromobenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Bromochloromethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
Bromodichloromethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
Bromoform	0.50 U	0.50	0.24	1	10/22/24 17:23	
Bromomethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	10/22/24 17:23	
tert-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
sec-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
n-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	10/22/24 17:23	
Chlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Chloroethane	0.50 U	0.50	0.23	1	10/22/24 17:23	
Chloroform	0.50 U	0.50	0.44	1	10/22/24 17:23	
Chloromethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
2-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 17:23	
4-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Dibromochloromethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
Dibromomethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 17:23	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 17:23	
cis-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 17:23	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:23	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 17:23	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Ethylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Isopropylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Methylene Chloride	0.50 U	0.50	0.20	1	10/22/24 17:23	
Naphthalene	0.50 U	0.50	0.23	1	10/22/24 17:23	
n-Propylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Styrene	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 17:23	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 09:50
Date Received: 10/16/24 13:00

Sample Name: WAL19Inter-1024
Lab Code: R2410389-003

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Toluene	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	10/22/24 17:23	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	10/22/24 17:23	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
Trichloroethene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:23	
Vinyl Chloride	0.50 U	0.50	0.22	1	10/22/24 17:23	
m,p-Xylenes	1.0 U	1.0	0.20	1	10/22/24 17:23	
o-Xylene	0.50 U	0.50	0.20	1	10/22/24 17:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	70 - 130	10/22/24 17:23	
1,2-Dichlorobenzene-d4	100	70 - 130	10/22/24 17:23	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 10:00
Date Received: 10/16/24 13:00

Sample Name: WAL19Pre-1024
Lab Code: R2410389-004

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Bromobenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Bromochloromethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
Bromodichloromethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
Bromoform	0.50 U	0.50	0.24	1	10/22/24 17:48	
Bromomethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	10/22/24 17:48	
tert-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
sec-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
n-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	10/22/24 17:48	
Chlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Chloroethane	0.50 U	0.50	0.23	1	10/22/24 17:48	
Chloroform	0.50 U	0.50	0.44	1	10/22/24 17:48	
Chloromethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
2-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 17:48	
4-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Dibromochloromethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
Dibromomethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 17:48	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 17:48	
cis-1,2-Dichloroethene	1.5	0.50	0.20	1	10/22/24 17:48	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:48	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 17:48	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Ethylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Isopropylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Methylene Chloride	0.50 U	0.50	0.20	1	10/22/24 17:48	
Naphthalene	0.50 U	0.50	0.23	1	10/22/24 17:48	
n-Propylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Styrene	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 17:48	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 10:00
Date Received: 10/16/24 13:00

Sample Name: WAL19Pre-1024
Lab Code: R2410389-004

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Toluene	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	10/22/24 17:48	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	10/22/24 17:48	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
Trichloroethene	1.7	0.50	0.20	1	10/22/24 17:48	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 17:48	
Vinyl Chloride	0.50 U	0.50	0.22	1	10/22/24 17:48	
m,p-Xylenes	1.0 U	1.0	0.20	1	10/22/24 17:48	
o-Xylene	0.50 U	0.50	0.20	1	10/22/24 17:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	70 - 130	10/22/24 17:48	
1,2-Dichlorobenzene-d4	105	70 - 130	10/22/24 17:48	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 10:45
Date Received: 10/16/24 13:00

Sample Name: WAL1-1024
Lab Code: R2410389-005

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Bromobenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Bromochloromethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
Bromodichloromethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
Bromoform	0.50 U	0.50	0.24	1	10/22/24 18:12	
Bromomethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	10/22/24 18:12	
tert-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
sec-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
n-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	10/22/24 18:12	
Chlorobenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Chloroethane	0.50 U	0.50	0.23	1	10/22/24 18:12	
Chloroform	0.50 U	0.50	0.44	1	10/22/24 18:12	
Chloromethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
2-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 18:12	
4-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Dibromochloromethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
Dibromomethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 18:12	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 18:12	
cis-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 18:12	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 18:12	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 18:12	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Ethylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Isopropylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Methylene Chloride	0.50 U	0.50	0.20	1	10/22/24 18:12	
Naphthalene	0.50 U	0.50	0.23	1	10/22/24 18:12	
n-Propylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Styrene	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 18:12	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: 10/15/24 10:45
Date Received: 10/16/24 13:00

Sample Name: WAL1-1024
Lab Code: R2410389-005

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Toluene	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	10/22/24 18:12	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	10/22/24 18:12	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
Trichloroethene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 18:12	
Vinyl Chloride	0.50 U	0.50	0.22	1	10/22/24 18:12	
m,p-Xylenes	1.0 U	1.0	0.20	1	10/22/24 18:12	
o-Xylene	0.50 U	0.50	0.20	1	10/22/24 18:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	70 - 130	10/22/24 18:12	
1,2-Dichlorobenzene-d4	102	70 - 130	10/22/24 18:12	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24 09:10
Date Received: 10/16/24 13:00

Sample Name: LS1-1024
Lab Code: R2410389-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	10/24/24 19:04	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	10/24/24 19:04	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/24 19:04	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	10/24/24 19:04	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/24/24 19:04	
2-Hexanone	5.0 U	5.0	0.20	1	10/24/24 19:04	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	10/24/24 19:04	
Acetone	5.0 U	5.0	5.0	1	10/24/24 19:04	
Acrylonitrile	10 U	10	0.90	1	10/24/24 19:04	
Benzene	1.0 U	1.0	0.20	1	10/24/24 19:04	
Bromochloromethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
Bromoform	1.0 U	1.0	0.25	1	10/24/24 19:04	
Bromomethane	1.0 U	1.0	0.70	1	10/24/24 19:04	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/24/24 19:04	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/24/24 19:04	
Chlorobenzene	1.0 U	1.0	0.20	1	10/24/24 19:04	
Chloroethane	1.0 U	1.0	0.23	1	10/24/24 19:04	
Chloroform	1.0 U	1.0	0.51	1	10/24/24 19:04	
Chloromethane	1.0 U	1.0	0.80	1	10/24/24 19:04	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
Dibromomethane	1.0 U	1.0	0.20	1	10/24/24 19:04	
Methylene Chloride	1.0 U	1.0	0.65	1	10/24/24 19:04	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/24 19:04	
Iodomethane	5.0 U	5.0	4.3	1	10/24/24 19:04	
Styrene	1.0 U	1.0	0.20	1	10/24/24 19:04	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	10/24/24 19:04	
Toluene	1.0 U	1.0	0.20	1	10/24/24 19:04	
Trichloroethene (TCE)	0.28 J	1.0	0.20	1	10/24/24 19:04	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	10/24/24 19:04	
Vinyl Acetate	2.0 U	2.0	1.1	1	10/24/24 19:04	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/24/24 19:04	
cis-1,2-Dichloroethene	3.9	1.0	0.23	1	10/24/24 19:04	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/24 19:04	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24 09:10
Date Received: 10/16/24 13:00

Sample Name: LS1-1024
Lab Code: R2410389-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	2.0 U	2.0	0.53	1	10/24/24 19:04	
o-Xylene	1.0 U	1.0	0.20	1	10/24/24 19:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/24/24 19:04	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/24/24 19:04	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	10/24/24 19:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/24/24 19:04	
Dibromofluoromethane	101	80 - 116	10/24/24 19:04	
Toluene-d8	103	87 - 121	10/24/24 19:04	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24 11:25
Date Received: 10/16/24 13:00

Sample Name: MH32-1024
Lab Code: R2410389-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,1,2-Trichloroethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,2,3-Trichloropropane	5.0 U	5.0	1.3	5	10/25/24 13:15	
1,2-Dibromo-3-chloropropane (DBCP)	10 U	10	2.3	5	10/25/24 13:15	
1,2-Dibromoethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,2-Dichlorobenzene	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,2-Dichloroethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	10/25/24 13:15	
1,4-Dichlorobenzene	1.3 J	5.0	1.0	5	10/25/24 13:15	
2-Butanone (MEK)	25 U	25	3.9	5	10/25/24 13:15	
2-Hexanone	25 U	25	1.0	5	10/25/24 13:15	
4-Methyl-2-pentanone	25 U	25	1.0	5	10/25/24 13:15	
Acetone	25 U	25	25	5	10/25/24 13:15	
Acrylonitrile	50 U	50	4.5	5	10/25/24 13:15	
Benzene	5.0 U	5.0	1.0	5	10/25/24 13:15	
Bromochloromethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
Bromodichloromethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
Bromoform	5.0 U	5.0	1.3	5	10/25/24 13:15	
Bromomethane	5.0 U	5.0	3.5	5	10/25/24 13:15	
Carbon Disulfide	5.0 U	5.0	2.1	5	10/25/24 13:15	
Carbon Tetrachloride	5.0 U	5.0	1.7	5	10/25/24 13:15	
Chlorobenzene	5.0 U	5.0	1.0	5	10/25/24 13:15	
Chloroethane	5.0 U	5.0	1.2	5	10/25/24 13:15	
Chloroform	5.0 U	5.0	2.6	5	10/25/24 13:15	
Chloromethane	5.0 U	5.0	4.0	5	10/25/24 13:15	
Dibromochloromethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
Dibromomethane	5.0 U	5.0	1.0	5	10/25/24 13:15	
Methylene Chloride	26	5.0	3.3	5	10/25/24 13:15	
Ethylbenzene	5.0 U	5.0	1.0	5	10/25/24 13:15	
Iodomethane	25 U	25	22	5	10/25/24 13:15	
Styrene	5.0 U	5.0	1.0	5	10/25/24 13:15	
Tetrachloroethene (PCE)	5.0 U	5.0	1.1	5	10/25/24 13:15	
Toluene	1.1 J	5.0	1.0	5	10/25/24 13:15	
Trichloroethene (TCE)	200	5.0	1.0	5	10/25/24 13:15	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	1.2	5	10/25/24 13:15	
Vinyl Acetate	10 U	10	5.5	5	10/25/24 13:15	
Vinyl Chloride	2.6 J	5.0	1.0	5	10/25/24 13:15	
cis-1,2-Dichloroethene	750	5.0	1.2	5	10/25/24 13:15	
cis-1,3-Dichloropropene	5.0 U	5.0	1.0	5	10/25/24 13:15	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24 11:25
Date Received: 10/16/24 13:00

Sample Name: MH32-1024
Lab Code: R2410389-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	10 U	10	2.7	5	10/25/24 13:15	
o-Xylene	5.0 U	5.0	1.0	5	10/25/24 13:15	
trans-1,2-Dichloroethene	2.1 J	5.0	1.0	5	10/25/24 13:15	
trans-1,3-Dichloropropene	5.0 U	5.0	1.2	5	10/25/24 13:15	
trans-1,4-Dichloro-2-butene	5.0 U	5.0	3.9	5	10/25/24 13:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/25/24 13:15	
Dibromofluoromethane	97	80 - 116	10/25/24 13:15	
Toluene-d8	102	87 - 121	10/25/24 13:15	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24 11:45
Date Received: 10/16/24 13:00

Sample Name: MH33-1024
Lab Code: R2410389-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	10/24/24 19:27	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	10/24/24 19:27	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/24 19:27	
1,4-Dichlorobenzene	0.23 J	1.0	0.20	1	10/24/24 19:27	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/24/24 19:27	
2-Hexanone	5.0 U	5.0	0.20	1	10/24/24 19:27	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	10/24/24 19:27	
Acetone	5.0 U	5.0	5.0	1	10/24/24 19:27	
Acrylonitrile	10 U	10	0.90	1	10/24/24 19:27	
Benzene	1.0 U	1.0	0.20	1	10/24/24 19:27	
Bromochloromethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
Bromoform	1.0 U	1.0	0.25	1	10/24/24 19:27	
Bromomethane	1.0 U	1.0	0.70	1	10/24/24 19:27	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/24/24 19:27	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/24/24 19:27	
Chlorobenzene	1.0 U	1.0	0.20	1	10/24/24 19:27	
Chloroethane	1.0 U	1.0	0.23	1	10/24/24 19:27	
Chloroform	1.0 U	1.0	0.51	1	10/24/24 19:27	
Chloromethane	1.0 U	1.0	0.80	1	10/24/24 19:27	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
Dibromomethane	1.0 U	1.0	0.20	1	10/24/24 19:27	
Methylene Chloride	1.0 U	1.0	0.65	1	10/24/24 19:27	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/24 19:27	
Iodomethane	5.0 U	5.0	4.3	1	10/24/24 19:27	
Styrene	1.0 U	1.0	0.20	1	10/24/24 19:27	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	10/24/24 19:27	
Toluene	1.0 U	1.0	0.20	1	10/24/24 19:27	
Trichloroethene (TCE)	2.7	1.0	0.20	1	10/24/24 19:27	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	10/24/24 19:27	
Vinyl Acetate	2.0 U	2.0	1.1	1	10/24/24 19:27	
Vinyl Chloride	1.3	1.0	0.20	1	10/24/24 19:27	
cis-1,2-Dichloroethene	22	1.0	0.23	1	10/24/24 19:27	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/24 19:27	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24 11:45
Date Received: 10/16/24 13:00

Sample Name: MH33-1024
Lab Code: R2410389-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	2.0 U	2.0	0.53	1	10/24/24 19:27	
o-Xylene	1.0 U	1.0	0.20	1	10/24/24 19:27	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/24/24 19:27	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/24/24 19:27	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	10/24/24 19:27	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/24/24 19:27	
Dibromofluoromethane	98	80 - 116	10/24/24 19:27	
Toluene-d8	102	87 - 121	10/24/24 19:27	



Metals

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24 09:10
Date Received: 10/16/24 13:00

Sample Name: LS1-1024
Lab Code: R2410389-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/23/24 21:06	10/21/24	
Barium, Total	6010D	67	ug/L	20	3	1	10/23/24 21:06	10/21/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/23/24 21:06	10/21/24	
Calcium, Total	6010D	94500	ug/L	1000	300	1	10/23/24 21:06	10/21/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/23/24 21:06	10/21/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/23/24 21:06	10/21/24	
Iron, Total	6010D	1380	ug/L	100	70	1	10/23/24 21:06	10/21/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/23/24 21:06	10/21/24	
Magnesium, Total	6010D	25300	ug/L	1000	30	1	10/23/24 21:06	10/21/24	
Manganese, Total	6010D	919	ug/L	10	4	1	10/23/24 21:06	10/21/24	
Nickel, Total	6010D	13 J	ug/L	40	3	1	10/23/24 21:06	10/21/24	
Potassium, Total	6010D	3600	ug/L	2000	400	1	10/23/24 21:06	10/21/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/23/24 21:06	10/21/24	
Sodium, Total	6010D	18000	ug/L	1000	300	1	10/23/24 21:06	10/21/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	10/23/24 21:06	10/21/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Sample Name: WAL1-1024
Lab Code: R2410389-005

Service Request: R2410389
Date Collected: 10/15/24 10:45
Date Received: 10/16/24 13:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	200.8	1.6	ug/L	1.0	0.4	1	10/18/24 10:56	10/17/24	
Barium, Total	200.8	70.1	ug/L	1.0	0.3	1	10/18/24 10:56	10/17/24	
Cadmium, Total	200.8	1.0 U	ug/L	1.0	0.2	1	10/18/24 10:56	10/17/24	
Calcium, Total	200.7	41300	ug/L	1000	200	1	10/18/24 18:28	10/17/24	
Chromium, Total	200.7	10 U	ug/L	10	1.0	1	10/18/24 18:28	10/17/24	
Copper, Total	200.8	5.6	ug/L	1.0	0.7	1	10/18/24 10:56	10/17/24	
Iron, Total	200.7	100 U	ug/L	100	20	1	10/18/24 18:28	10/17/24	
Lead, Total	200.8	1.0 U	ug/L	1.0	0.2	1	10/18/24 10:56	10/17/24	
Magnesium, Total	200.7	14500	ug/L	1000	70	1	10/18/24 18:28	10/17/24	
Manganese, Total	200.7	119	ug/L	10	2	1	10/18/24 18:28	10/17/24	
Nickel, Total	200.8	1.0 U	ug/L	1.0	0.5	1	10/18/24 10:56	10/17/24	
Potassium, Total	200.7	1600 J	ug/L	2000	200	1	10/18/24 18:28	10/17/24	
Selenium, Total	200.8	2.0 U	ug/L	2.0	0.6	1	10/18/24 10:56	10/17/24	
Sodium, Total	200.7	8800	ug/L	1000	200	1	10/18/24 18:28	10/17/24	
Zinc, Total	200.7	22	ug/L	20	7	1	10/18/24 18:28	10/17/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MH32-1024
Lab Code: R2410389-006

Service Request: R2410389
Date Collected: 10/15/24 11:25
Date Received: 10/16/24 13:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/23/24 21:09	10/21/24	
Barium, Total	6010D	86	ug/L	20	3	1	10/23/24 21:09	10/21/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/23/24 21:09	10/21/24	
Calcium, Total	6010D	90100	ug/L	1000	300	1	10/23/24 21:09	10/21/24	
Chromium, Total	6010D	3 J	ug/L	10	2	1	10/23/24 21:09	10/21/24	
Copper, Total	6010D	9 J	ug/L	20	4	1	10/23/24 21:09	10/21/24	
Iron, Total	6010D	3000	ug/L	100	70	1	10/23/24 21:09	10/21/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/23/24 21:09	10/21/24	
Magnesium, Total	6010D	16800	ug/L	1000	30	1	10/23/24 21:09	10/21/24	
Manganese, Total	6010D	850	ug/L	10	4	1	10/23/24 21:09	10/21/24	
Nickel, Total	6010D	20 J	ug/L	40	3	1	10/23/24 21:09	10/21/24	
Potassium, Total	6010D	3000	ug/L	2000	400	1	10/23/24 21:09	10/21/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/23/24 21:09	10/21/24	
Sodium, Total	6010D	4300 B	ug/L	1000	300	1	10/23/24 21:09	10/21/24	
Zinc, Total	6010D	25	ug/L	20	3	1	10/23/24 21:09	10/21/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MH33-1024
Lab Code: R2410389-007

Service Request: R2410389
Date Collected: 10/15/24 11:45
Date Received: 10/16/24 13:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/23/24 21:12	10/21/24	
Barium, Total	6010D	31	ug/L	20	3	1	10/23/24 21:12	10/21/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/23/24 21:12	10/21/24	
Calcium, Total	6010D	55500	ug/L	1000	300	1	10/23/24 21:12	10/21/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/23/24 21:12	10/21/24	
Copper, Total	6010D	5 J	ug/L	20	4	1	10/23/24 21:12	10/21/24	
Iron, Total	6010D	1470	ug/L	100	70	1	10/23/24 21:12	10/21/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/23/24 21:12	10/21/24	
Magnesium, Total	6010D	13400	ug/L	1000	30	1	10/23/24 21:12	10/21/24	
Manganese, Total	6010D	217	ug/L	10	4	1	10/23/24 21:12	10/21/24	
Nickel, Total	6010D	12 J	ug/L	40	3	1	10/23/24 21:12	10/21/24	
Potassium, Total	6010D	2100	ug/L	2000	400	1	10/23/24 21:12	10/21/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/23/24 21:12	10/21/24	
Sodium, Total	6010D	3200 B	ug/L	1000	300	1	10/23/24 21:12	10/21/24	
Zinc, Total	6010D	4 J	ug/L	20	3	1	10/23/24 21:12	10/21/24	



General Chemistry

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MH32-1024
Lab Code: R2410389-006

Service Request: R2410389
Date Collected: 10/15/24 11:25
Date Received: 10/16/24 13:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	0.5 J	mg/L	1.0	0.2	10	10/17/24 10:10	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	362	mg/L	10	9	1	10/21/24 09:45	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MH33-1024
Lab Code: R2410389-007

Service Request: R2410389
Date Collected: 10/15/24 11:45
Date Received: 10/16/24 13:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	0.4 J	mg/L	1.0	0.2	10	10/17/24 10:16	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	229	mg/L	10	9	1	10/21/24 09:45	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389

SURROGATE RECOVERY SUMMARY
Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Sample Name	Lab Code	1,2-Dichlorobenzene-d4	4-Bromofluorobenzene
		70 - 130	70 - 130
WAL19Post-1024	R2410389-002	97	106
WAL19Inter-1024	R2410389-003	100	110
WAL19Pre-1024	R2410389-004	105	112
WAL1-1024	R2410389-005	102	109
Lab Control Sample	RQ2413437-03	129	138 *
Duplicate Lab Control Sample	RQ2413437-04	133 *	144 *
Method Blank	RQ2413437-05	104	117

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413437-05

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Benzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Bromobenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Bromochloromethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
Bromodichloromethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
Bromoform	0.50 U	0.50	0.24	1	10/22/24 13:53	
Bromomethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
Methyl tert-Butyl Ether	0.50 U	0.50	0.20	1	10/22/24 13:53	
tert-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
sec-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
n-Butylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Carbon Tetrachloride	0.50 U	0.50	0.20	1	10/22/24 13:53	
Chlorobenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Chloroethane	0.50 U	0.50	0.23	1	10/22/24 13:53	
Chloroform	0.50 U	0.50	0.44	1	10/22/24 13:53	
Chloromethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
2-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 13:53	
4-Chlorotoluene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Dibromochloromethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
Dibromomethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,2-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,4-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,3-Dichlorobenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Dichlorodifluoromethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,1-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,2-Dichloroethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,1-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 13:53	
trans-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 13:53	
cis-1,2-Dichloroethene	0.50 U	0.50	0.20	1	10/22/24 13:53	
2,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,2-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,3-Dichloropropane	0.50 U	0.50	0.20	1	10/22/24 13:53	
trans-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 13:53	
cis-1,3-Dichloropropene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Ethylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Hexachlorobutadiene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Isopropylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
p-Isopropyltoluene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Methylene Chloride	0.50 U	0.50	0.20	1	10/22/24 13:53	
Naphthalene	0.50 U	0.50	0.23	1	10/22/24 13:53	
n-Propylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Styrene	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,1,1,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,1,2,2-Tetrachloroethane	0.50 U	0.50	0.20	1	10/22/24 13:53	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Sample Name: Method Blank
Lab Code: RQ2413437-05

Service Request: R2410389
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Tetrachloroethene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Toluene	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,2,4-Trichlorobenzene	0.50 U	0.50	0.24	1	10/22/24 13:53	
1,2,3-Trichlorobenzene	0.50 U	0.50	0.22	1	10/22/24 13:53	
1,1,2-Trichloroethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
Trichloroethene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Trichlorofluoromethane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,2,3-Trichloropropane	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,3,5-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
1,2,4-Trimethylbenzene	0.50 U	0.50	0.20	1	10/22/24 13:53	
Vinyl Chloride	0.50 U	0.50	0.22	1	10/22/24 13:53	
m,p-Xylenes	1.0 U	1.0	0.20	1	10/22/24 13:53	
o-Xylene	0.50 U	0.50	0.20	1	10/22/24 13:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	117	70 - 130	10/22/24 13:53	
1,2-Dichlorobenzene-d4	104	70 - 130	10/22/24 13:53	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Analyzed: 10/22/24

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2413437-03					Duplicate Lab Control Sample RQ2413437-04					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzene	524.2	5.04	5.00	101	4.26	5.00	85	70-130	17	20
Bromobenzene	524.2	6.03	5.00	121	5.40	5.00	108	70-130	11	20
Bromochloromethane	524.2	5.69	5.00	114	5.27	5.00	105	70-130	8	20
Bromodichloromethane	524.2	5.11	5.00	102	4.52	5.00	90	70-130	12	20
Bromoform	524.2	5.57	5.00	111	4.32	5.00	86	70-130	25*	20
Bromomethane	524.2	6.48	5.00	130	6.06	5.00	121	70-130	7	20
Methyl tert-Butyl Ether	524.2	4.23	5.00	85	3.56	5.00	71	70-130	17	20
tert-Butylbenzene	524.2	6.63	5.00	133 *	6.23	5.00	125	70-130	6	20
sec-Butylbenzene	524.2	6.67	5.00	133 *	6.13	5.00	123	70-130	8	20
n-Butylbenzene	524.2	6.54	5.00	131 *	6.28	5.00	126	70-130	4	20
Carbon Tetrachloride	524.2	5.61	5.00	112	4.70	5.00	94	70-130	18	20
Chlorobenzene	524.2	5.66	5.00	113	5.37	5.00	107	70-130	5	20
Chloroethane	524.2	4.99	5.00	100	4.79	5.00	96	70-130	4	20
Chloroform	524.2	5.40	5.00	108	4.71	5.00	94	70-130	14	20
Chloromethane	524.2	7.89	5.00	158 *	7.53	5.00	151 *	70-130	5	20
2-Chlorotoluene	524.2	6.42	5.00	128	6.08	5.00	122	70-130	5	20
4-Chlorotoluene	524.2	6.71	5.00	134 *	6.17	5.00	123	70-130	8	20
Dibromochloromethane	524.2	4.89	5.00	98	4.11	5.00	82	70-130	17	20
Dibromomethane	524.2	5.30	5.00	106	4.47	5.00	89	70-130	17	20
1,2-Dichlorobenzene	524.2	5.98	5.00	120	5.53	5.00	111	70-130	8	20
1,4-Dichlorobenzene	524.2	6.09	5.00	122	5.51	5.00	110	70-130	10	20
1,3-Dichlorobenzene	524.2	6.15	5.00	123	5.65	5.00	113	70-130	8	20
Dichlorodifluoromethane	524.2	6.50	5.00	130	6.32	5.00	126	70-130	3	20
1,1-Dichloroethane	524.2	5.98	5.00	120	5.20	5.00	104	70-130	14	20
1,2-Dichloroethane	524.2	4.61	5.00	92	4.01	5.00	80	70-130	14	20
1,1-Dichloroethene	524.2	6.41	5.00	128	5.63	5.00	113	70-130	13	20
trans-1,2-Dichloroethene	524.2	4.85	5.00	97	4.27	5.00	85	70-130	13	20
cis-1,2-Dichloroethene	524.2	5.88	5.00	118	5.17	5.00	103	70-130	13	20
2,2-Dichloropropane	524.2	5.51	5.00	110	4.71	5.00	94	70-130	16	20
1,2-Dichloropropane	524.2	5.18	5.00	104	4.32	5.00	86	70-130	18	20
1,3-Dichloropropane	524.2	5.13	5.00	103	4.21	5.00	84	70-130	20	20
trans-1,3-Dichloropropene	524.2	4.97	5.00	99	4.13	5.00	83	70-130	18	20
cis-1,3-Dichloropropene	524.2	4.87	5.00	97	4.00	5.00	80	70-130	20	20

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Analyzed: 10/22/24

Duplicate Lab Control Sample Summary
Purgeable Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethylbenzene	524.2	6.03	5.00	121	5.68	5.00	114	70-130	6	20
Hexachlorobutadiene	524.2	6.05	5.00	121	5.75	5.00	115	70-130	5	20
Isopropylbenzene	524.2	6.39	5.00	128	5.95	5.00	119	70-130	7	20
p-Isopropyltoluene	524.2	6.54	5.00	131 *	6.16	5.00	123	70-130	6	20
Methylene Chloride	524.2	5.77	5.00	115	5.56	5.00	111	70-130	4	20
Naphthalene	524.2	5.31	5.00	106	4.71	5.00	94	70-130	12	20
n-Propylbenzene	524.2	6.47	5.00	129	5.99	5.00	120	70-130	8	20
Styrene	524.2	6.47	5.00	129	5.67	5.00	113	70-130	13	20
1,1,1,2-Tetrachloroethane	524.2	5.16	5.00	103	4.33	5.00	87	70-130	17	20
1,1,2,2-Tetrachloroethane	524.2	5.05	5.00	101	4.13	5.00	83	70-130	20	20
Tetrachloroethene	524.2	5.11	5.00	102	4.68	5.00	94	70-130	9	20
Toluene	524.2	5.58	5.00	112	5.07	5.00	101	70-130	10	20
1,2,4-Trichlorobenzene	524.2	5.73	5.00	115	5.24	5.00	105	70-130	9	20
1,2,3-Trichlorobenzene	524.2	5.83	5.00	117	5.05	5.00	101	70-130	14	20
1,1,2-Trichloroethane	524.2	4.87	5.00	97	3.86	5.00	77	70-130	23*	20
Trichloroethene	524.2	4.72	5.00	94	3.95	5.00	79	70-130	18	20
Trichlorofluoromethane	524.2	6.25	5.00	125	5.67	5.00	113	70-130	10	20
1,2,3-Trichloropropane	524.2	5.70	5.00	114	4.63	5.00	93	70-130	21*	20
1,3,5-Trimethylbenzene	524.2	6.49	5.00	130	5.75	5.00	115	70-130	12	20
1,2,4-Trimethylbenzene	524.2	6.30	5.00	126	5.63	5.00	113	70-130	11	20
Vinyl Chloride	524.2	6.40	5.00	128	6.11	5.00	122	70-130	5	20
m,p-Xylenes	524.2	12.7	10.0	127	11.6	10.0	116	70-130	9	20
o-Xylene	524.2	6.17	5.00	123	5.81	5.00	116	70-130	6	20

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
LS1-1024	R2410389-001	100	101	103
MH32-1024	R2410389-006	102	97	102
MH33-1024	R2410389-007	102	98	102
Lab Control Sample	RQ2413580-02	107	105	107
Method Blank	RQ2413580-03	102	98	103
Lab Control Sample	RQ2413677-02	107	102	102
Method Blank	RQ2413677-03	106	99	106

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413580-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	10/24/24 11:47	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	10/24/24 11:47	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/24/24 11:47	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	10/24/24 11:47	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/24/24 11:47	
2-Hexanone	5.0 U	5.0	0.20	1	10/24/24 11:47	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	10/24/24 11:47	
Acetone	5.0 U	5.0	5.0	1	10/24/24 11:47	
Acrylonitrile	10 U	10	0.90	1	10/24/24 11:47	
Benzene	1.0 U	1.0	0.20	1	10/24/24 11:47	
Bromochloromethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
Bromoform	1.0 U	1.0	0.25	1	10/24/24 11:47	
Bromomethane	1.0 U	1.0	0.70	1	10/24/24 11:47	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/24/24 11:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/24/24 11:47	
Chlorobenzene	1.0 U	1.0	0.20	1	10/24/24 11:47	
Chloroethane	1.0 U	1.0	0.23	1	10/24/24 11:47	
Chloroform	1.0 U	1.0	0.51	1	10/24/24 11:47	
Chloromethane	1.0 U	1.0	0.80	1	10/24/24 11:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
Dibromomethane	1.0 U	1.0	0.20	1	10/24/24 11:47	
Methylene Chloride	1.0 U	1.0	0.65	1	10/24/24 11:47	
Ethylbenzene	1.0 U	1.0	0.20	1	10/24/24 11:47	
Iodomethane	5.0 U	5.0	4.3	1	10/24/24 11:47	
Styrene	1.0 U	1.0	0.20	1	10/24/24 11:47	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	10/24/24 11:47	
Toluene	1.0 U	1.0	0.20	1	10/24/24 11:47	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	10/24/24 11:47	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	10/24/24 11:47	
Vinyl Acetate	2.0 U	2.0	1.1	1	10/24/24 11:47	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/24/24 11:47	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/24/24 11:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/24/24 11:47	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413580-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	2.0 U	2.0	0.53	1	10/24/24 11:47	
o-Xylene	1.0 U	1.0	0.20	1	10/24/24 11:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/24/24 11:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/24/24 11:47	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	10/24/24 11:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/24/24 11:47	
Dibromofluoromethane	98	80 - 116	10/24/24 11:47	
Toluene-d8	103	87 - 121	10/24/24 11:47	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413677-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,2,3-Trichloropropane	1.0 U	1.0	0.26	1	10/25/24 11:20	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	10/25/24 11:20	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/25/24 11:20	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	10/25/24 11:20	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/25/24 11:20	
2-Hexanone	5.0 U	5.0	0.20	1	10/25/24 11:20	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	10/25/24 11:20	
Acetone	5.0 U	5.0	5.0	1	10/25/24 11:20	
Acrylonitrile	10 U	10	0.90	1	10/25/24 11:20	
Benzene	1.0 U	1.0	0.20	1	10/25/24 11:20	
Bromochloromethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
Bromoform	1.0 U	1.0	0.25	1	10/25/24 11:20	
Bromomethane	1.0 U	1.0	0.70	1	10/25/24 11:20	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/25/24 11:20	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/25/24 11:20	
Chlorobenzene	1.0 U	1.0	0.20	1	10/25/24 11:20	
Chloroethane	1.0 U	1.0	0.23	1	10/25/24 11:20	
Chloroform	1.0 U	1.0	0.51	1	10/25/24 11:20	
Chloromethane	1.0 U	1.0	0.80	1	10/25/24 11:20	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
Dibromomethane	1.0 U	1.0	0.20	1	10/25/24 11:20	
Methylene Chloride	1.0 U	1.0	0.65	1	10/25/24 11:20	
Ethylbenzene	1.0 U	1.0	0.20	1	10/25/24 11:20	
Iodomethane	5.0 U	5.0	4.3	1	10/25/24 11:20	
Styrene	1.0 U	1.0	0.20	1	10/25/24 11:20	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	10/25/24 11:20	
Toluene	1.0 U	1.0	0.20	1	10/25/24 11:20	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	10/25/24 11:20	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	10/25/24 11:20	
Vinyl Acetate	2.0 U	2.0	1.1	1	10/25/24 11:20	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/25/24 11:20	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/25/24 11:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/25/24 11:20	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413677-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
m,p-Xylenes	2.0 U	2.0	0.53	1	10/25/24 11:20	
o-Xylene	1.0 U	1.0	0.20	1	10/25/24 11:20	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/25/24 11:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/25/24 11:20	
trans-1,4-Dichloro-2-butene	1.0 U	1.0	0.78	1	10/25/24 11:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	10/25/24 11:20	
Dibromofluoromethane	99	80 - 116	10/25/24 11:20	
Toluene-d8	106	87 - 121	10/25/24 11:20	

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Analyzed: 10/24/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413580-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260D	17.8	20.0	89	76-129
1,1,1-Trichloroethane (TCA)	8260D	17.8	20.0	89	75-125
1,1,2,2-Tetrachloroethane	8260D	15.6	20.0	78	78-126
1,1,2-Trichloroethane	8260D	18.3	20.0	92	82-121
1,1-Dichloroethane (1,1-DCA)	8260D	18.6	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	18.5	20.0	93	71-118
1,2,3-Trichloropropane	8260D	17.2	20.0	86	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260D	14.9	20.0	74	55-136
1,2-Dibromoethane	8260D	16.9	20.0	85	82-127
1,2-Dichlorobenzene	8260D	17.7	20.0	88	80-119
1,2-Dichloroethane	8260D	18.6	20.0	93	71-127
1,2-Dichloropropane	8260D	18.5	20.0	93	80-119
1,4-Dichlorobenzene	8260D	17.6	20.0	88	79-119
2-Butanone (MEK)	8260D	16.1	20.0	81	61-137
2-Hexanone	8260D	16.2	20.0	81	63-124
4-Methyl-2-pentanone	8260D	17.3	20.0	87	66-124
Acetone	8260D	15.2	20.0	76	40-161
Benzene	8260D	17.9	20.0	89	79-119
Bromochloromethane	8260D	17.7	20.0	89	81-126
Bromodichloromethane	8260D	17.8	20.0	89	81-123
Bromoform	8260D	19.4	20.0	97	65-146
Bromomethane	8260D	14.7	20.0	74	42-166
Carbon Disulfide	8260D	18.3	20.0	92	66-128
Carbon Tetrachloride	8260D	16.7	20.0	84	70-127
Chlorobenzene	8260D	17.4	20.0	87	80-121
Chloroethane	8260D	17.6	20.0	88	62-131
Chloroform	8260D	18.9	20.0	94	79-120
Chloromethane	8260D	19.3	20.0	96	61-143
Dibromochloromethane	8260D	18.1	20.0	90	72-128
Dibromomethane	8260D	18.2	20.0	91	80-118
Methylene Chloride	8260D	19.3	20.0	96	73-122
Ethylbenzene	8260D	17.8	20.0	89	76-120
Iodomethane	8260D	21.5	20.0	108	18-160

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Analyzed: 10/24/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413580-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Styrene	8260D	19.3	20.0	97	80-124
Tetrachloroethene (PCE)	8260D	18.2	20.0	91	72-125
Toluene	8260D	18.2	20.0	91	79-119
Trichloroethene (TCE)	8260D	17.9	20.0	89	74-122
Trichlorofluoromethane (CFC 11)	8260D	17.9	20.0	90	71-136
Vinyl Acetate	8260D	17.5	20.0	87	52-174
Vinyl Chloride	8260D	20.0	20.0	100	74-159
cis-1,2-Dichloroethene	8260D	19.7	20.0	98	80-121
cis-1,3-Dichloropropene	8260D	18.5	20.0	93	77-122
m,p-Xylenes	8260D	36.7	40.0	92	80-126
o-Xylene	8260D	17.4	20.0	87	79-123
trans-1,2-Dichloroethene	8260D	16.8	20.0	84	73-118
trans-1,3-Dichloropropene	8260D	18.5	20.0	92	71-133
trans-1,4-Dichloro-2-butene	8260D	13.0	20.0	65	39-137

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Analyzed: 10/25/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413677-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1,2-Tetrachloroethane	8260D	18.4	20.0	92	76-129
1,1,1-Trichloroethane (TCA)	8260D	18.6	20.0	93	75-125
1,1,2,2-Tetrachloroethane	8260D	17.1	20.0	85	78-126
1,1,2-Trichloroethane	8260D	19.0	20.0	95	82-121
1,1-Dichloroethane (1,1-DCA)	8260D	19.1	20.0	96	80-124
1,1-Dichloroethene (1,1-DCE)	8260D	19.7	20.0	99	71-118
1,2,3-Trichloropropane	8260D	18.7	20.0	93	75-118
1,2-Dibromo-3-chloropropane (DBCP)	8260D	16.7	20.0	84	55-136
1,2-Dibromoethane	8260D	18.2	20.0	91	82-127
1,2-Dichlorobenzene	8260D	18.0	20.0	90	80-119
1,2-Dichloroethane	8260D	19.2	20.0	96	71-127
1,2-Dichloropropane	8260D	18.7	20.0	94	80-119
1,4-Dichlorobenzene	8260D	18.7	20.0	93	79-119
2-Butanone (MEK)	8260D	17.6	20.0	88	61-137
2-Hexanone	8260D	18.6	20.0	93	63-124
4-Methyl-2-pentanone	8260D	19.9	20.0	100	66-124
Acetone	8260D	17.7	20.0	89	40-161
Benzene	8260D	18.7	20.0	94	79-119
Bromochloromethane	8260D	19.3	20.0	97	81-126
Bromodichloromethane	8260D	18.3	20.0	91	81-123
Bromoform	8260D	19.7	20.0	98	65-146
Bromomethane	8260D	15.4	20.0	77	42-166
Carbon Disulfide	8260D	17.8	20.0	89	66-128
Carbon Tetrachloride	8260D	17.3	20.0	87	70-127
Chlorobenzene	8260D	18.1	20.0	91	80-121
Chloroethane	8260D	17.9	20.0	90	62-131
Chloroform	8260D	19.8	20.0	99	79-120
Chloromethane	8260D	19.9	20.0	100	61-143
Dibromochloromethane	8260D	18.0	20.0	90	72-128
Dibromomethane	8260D	18.8	20.0	94	80-118
Methylene Chloride	8260D	20.1	20.0	101	73-122
Ethylbenzene	8260D	18.6	20.0	93	76-120
Iodomethane	8260D	23.3	20.0	116	18-160

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Analyzed: 10/25/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413677-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Styrene	8260D	20.0	20.0	100	80-124
Tetrachloroethene (PCE)	8260D	18.4	20.0	92	72-125
Toluene	8260D	18.7	20.0	94	79-119
Trichloroethene (TCE)	8260D	18.2	20.0	91	74-122
Trichlorofluoromethane (CFC 11)	8260D	19.2	20.0	96	71-136
Vinyl Acetate	8260D	17.4	20.0	87	52-174
Vinyl Chloride	8260D	20.8	20.0	104	74-159
cis-1,2-Dichloroethene	8260D	20.6	20.0	103	80-121
cis-1,3-Dichloropropene	8260D	19.6	20.0	98	77-122
m,p-Xylenes	8260D	37.8	40.0	95	80-126
o-Xylene	8260D	18.4	20.0	92	79-123
trans-1,2-Dichloroethene	8260D	18.3	20.0	92	73-118
trans-1,3-Dichloropropene	8260D	19.1	20.0	96	71-133
trans-1,4-Dichloro-2-butene	8260D	15.2	20.0	76	39-137



Metals

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Sample Name: Method Blank
Lab Code: R2410389-MB

Service Request: R2410389
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	200.8	1.0 U	ug/L	1.0	0.4	1	10/18/24 09:58	10/17/24	
Barium, Total	200.8	1.0 U	ug/L	1.0	0.3	1	10/18/24 09:58	10/17/24	
Cadmium, Total	200.8	1.0 U	ug/L	1.0	0.2	1	10/18/24 09:58	10/17/24	
Calcium, Total	200.7	1000 U	ug/L	1000	200	1	10/18/24 16:50	10/17/24	
Chromium, Total	200.7	10 U	ug/L	10	1.0	1	10/18/24 16:50	10/17/24	
Copper, Total	200.8	1.0 U	ug/L	1.0	0.7	1	10/18/24 09:58	10/17/24	
Iron, Total	200.7	100 U	ug/L	100	20	1	10/18/24 16:50	10/17/24	
Lead, Total	200.8	1.0 U	ug/L	1.0	0.2	1	10/18/24 09:58	10/17/24	
Magnesium, Total	200.7	1000 U	ug/L	1000	70	1	10/18/24 16:50	10/17/24	
Manganese, Total	200.7	10 U	ug/L	10	2	1	10/18/24 16:50	10/17/24	
Nickel, Total	200.8	1.0 U	ug/L	1.0	0.5	1	10/18/24 09:58	10/17/24	
Potassium, Total	200.7	2000 U	ug/L	2000	200	1	10/18/24 16:50	10/17/24	
Selenium, Total	200.8	2.0 U	ug/L	2.0	0.6	1	10/18/24 09:58	10/17/24	
Sodium, Total	200.7	1000 U	ug/L	1000	200	1	10/18/24 16:50	10/17/24	
Zinc, Total	200.7	20 U	ug/L	20	7	1	10/18/24 16:50	10/17/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2410389-MB

Service Request: R2410389
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/23/24 20:56	10/21/24	
Barium, Total	6010D	20 U	ug/L	20	3	1	10/23/24 20:56	10/21/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/23/24 20:56	10/21/24	
Calcium, Total	6010D	1000 U	ug/L	1000	300	1	10/23/24 20:56	10/21/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/23/24 20:56	10/21/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/23/24 20:56	10/21/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/23/24 20:56	10/21/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/23/24 20:56	10/21/24	
Magnesium, Total	6010D	1000 U	ug/L	1000	30	1	10/23/24 20:56	10/21/24	
Manganese, Total	6010D	10 U	ug/L	10	4	1	10/23/24 20:56	10/21/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/23/24 20:56	10/21/24	
Potassium, Total	6010D	2000 U	ug/L	2000	400	1	10/23/24 20:56	10/21/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/23/24 20:56	10/21/24	
Sodium, Total	6010D	500 J	ug/L	1000	300	1	10/23/24 20:56	10/21/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	10/23/24 20:56	10/21/24	

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Drinking Water

Service Request: R2410389
Date Analyzed: 10/18/24 - 10/23/24

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2410389-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	200.8	20.3	20.0	101	85-115
Arsenic, Total	6010D	38.9	40	97	80-120
Barium, Total	200.8	19.6	20.0	98	85-115
Barium, Total	6010D	1850	2000	93	80-120
Cadmium, Total	200.8	19.5	20.0	97	85-115
Cadmium, Total	6010D	48.6	50.0	97	80-120
Calcium, Total	200.7	1930	2000	97	85-115
Calcium, Total	6010D	1950	2000	98	80-120
Chromium, Total	200.7	198	200	99	85-115
Chromium, Total	6010D	194	200	97	80-120
Copper, Total	200.8	21.2	20.0	106	85-115
Copper, Total	6010D	242	250	97	80-120
Iron, Total	200.7	918	1000	92	85-115
Iron, Total	6010D	951	1000	95	80-120
Lead, Total	200.8	19.9	20.0	99	85-115
Lead, Total	6010D	493	500	99	80-120
Magnesium, Total	200.7	1890	2000	95	85-115
Magnesium, Total	6010D	1880	2000	94	80-120
Manganese, Total	200.7	476	500	95	85-115
Manganese, Total	6010D	454	500	91	80-120
Nickel, Total	200.8	20.4	20.0	102	85-115
Nickel, Total	6010D	468	500	94	80-120
Potassium, Total	200.7	19300	20000	96	85-115
Potassium, Total	6010D	19600	20000	98	80-120
Selenium, Total	200.8	21.2	20.0	106	85-115
Selenium, Total	6010D	959	1010	95	80-120
Sodium, Total	200.7	19500	20000	97	85-115
Sodium, Total	6010D	19900	20000	99	80-120
Zinc, Total	200.7	483	500	97	85-115
Zinc, Total	6010D	472	500	94	80-120



General Chemistry

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R2410389-MB

Service Request: R2410389
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	0.02	1	10/17/24 09:57	
Solids, Total Dissolved (TDS)	SM 2540 C-2015	10 U	mg/L	10	9	1	10/21/24 09:45	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Collected: 10/15/24
Date Received: 10/16/24
Date Analyzed: 10/17/24

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MH33-1024
Lab Code: R2410389-007
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike		Result	Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Nitrate as Nitrogen	0.4 J	9.9	10.0	94	9.9	10.0	94	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410389
Date Analyzed: 10/17/24 - 10/21/24

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2410389-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	300.0	0.982	1.00	98	90-110
Solids, Total Dissolved (TDS)	SM 2540 C-2015	896	914	98	90-110



November 19, 2024

Service Request No:R2410580

Mr. Jon Brandes
On-Site Geological Services
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: WAL - Semiannual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory October 18, 2024
For your reference, these analyses have been assigned our service request number **R2410580**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

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Narrative Documents

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Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Received: 10/18/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 10/18/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Semivolatiles by GC/MS:

Method 8270E SIM, 860711: The control limits were exceeded for one or more surrogates in the sample(s). Since the problem may indicate a potential bias in the analytical batch, all associated field samples will be re-extracted and reanalyzed.

Method 8270E SIM, 861398: The control limits were exceeded for one or more surrogates in the sample(s). Since the problem may indicate a potential bias in the analytical batch, all associated field samples were re-extracted and reanalyzed. The surrogates met control limits for the reanalysis. Since the reanalysis confirmed an error with the original results, the data from the reanalysis is reported and flagged.

Metals:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by 

Date 11/18/2024

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW4D-1024			Lab ID: R2410580-002			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	0.36	J	0.20	1.0	ug/L	8260D
1,1-Dichloroethene	0.24	J	0.20	1.0	ug/L	8260D
Barium, Total	23		3	20	ug/L	6010D
Benzene	0.37	J	0.20	1.0	ug/L	8260D
Calcium, Total	24800		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	230	E	0.23	1.0	ug/L	8260D
cis-1,2-Dichloroethene	190	D	0.46	2.0	ug/L	8260D
Iron, Total	620		70	100	ug/L	6010D
Magnesium, Total	21300		30	1000	ug/L	6010D
Manganese, Total	2880		4	10	ug/L	6010D
Nickel, Total	19	J	3	40	ug/L	6010D
Potassium, Total	2300		400	2000	ug/L	6010D
Selenium, Total	8	J	7	10	ug/L	6010D
Sodium, Total	6400		300	1000	ug/L	6010D
trans-1,2-Dichloroethene	1.2		0.20	1.0	ug/L	8260D
trans-1,2-Dichloroethene	1.1	DJ	0.40	2.0	ug/L	8260D
Trichloroethene	0.95	J	0.20	1.0	ug/L	8260D
Trichloroethene	0.93	DJ	0.40	2.0	ug/L	8260D
Vinyl Chloride	55		0.20	1.0	ug/L	8260D
Vinyl Chloride	43	D	0.40	2.0	ug/L	8260D
Zinc, Total	31		3	20	ug/L	6010D

CLIENT ID: MW5D-1024			Lab ID: R2410580-003			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	0.22	J	0.20	1.0	ug/L	8260D
1,1-Dichloroethene	0.52	J	0.20	1.0	ug/L	8260D
1,4-Dioxane	0.33		0.035	0.040	ug/L	8270E SIM
Barium, Total	29		3	20	ug/L	6010D
Calcium, Total	15900		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	110		0.23	1.0	ug/L	8260D
Magnesium, Total	10200		30	1000	ug/L	6010D
Manganese, Total	462		4	10	ug/L	6010D
Nickel, Total	14	J	3	40	ug/L	6010D
Potassium, Total	1200	J	400	2000	ug/L	6010D
Selenium, Total	8	J	7	10	ug/L	6010D
Sodium, Total	6500		300	1000	ug/L	6010D
trans-1,2-Dichloroethene	0.52	J	0.20	1.0	ug/L	8260D
Trichloroethene	25		0.20	1.0	ug/L	8260D
Vinyl Chloride	7.3		0.20	1.0	ug/L	8260D
Zinc, Total	4	J	3	20	ug/L	6010D

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW17S-1024			Lab ID: R2410580-004			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	1.1		0.20	1.0	ug/L	8260D
1,4-Dioxane	0.40	B	0.035	0.040	ug/L	8270E SIM
1,4-Dioxane	0.40		0.035	0.040	ug/L	8270E SIM
Barium, Total	49		3	20	ug/L	6010D
Calcium, Total	102000		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	30		0.23	1.0	ug/L	8260D
Iron, Total	140		70	100	ug/L	6010D
Magnesium, Total	73000		30	1000	ug/L	6010D
Manganese, Total	108		4	10	ug/L	6010D
Nickel, Total	14	J	3	40	ug/L	6010D
Potassium, Total	4200		400	2000	ug/L	6010D
Sodium, Total	86800		300	1000	ug/L	6010D
trans-1,2-Dichloroethene	0.28	J	0.20	1.0	ug/L	8260D
Trichloroethene	8.7		0.20	1.0	ug/L	8260D
Zinc, Total	17	J	3	20	ug/L	6010D

CLIENT ID: DUP1-1024			Lab ID: R2410580-006			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	0.98	J	0.20	1.0	ug/L	8260D
1,4-Dioxane	0.38	B	0.035	0.040	ug/L	8270E SIM
1,4-Dioxane	0.43		0.035	0.040	ug/L	8270E SIM
Barium, Total	48		3	20	ug/L	6010D
Calcium, Total	99300		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	31		0.23	1.0	ug/L	8260D
Iron, Total	140		70	100	ug/L	6010D
Magnesium, Total	71200		30	1000	ug/L	6010D
Manganese, Total	110		4	10	ug/L	6010D
Nickel, Total	13	J	3	40	ug/L	6010D
Potassium, Total	4100		400	2000	ug/L	6010D
Selenium, Total	8	J	7	10	ug/L	6010D
Sodium, Total	84400		300	1000	ug/L	6010D
trans-1,2-Dichloroethene	0.27	J	0.20	1.0	ug/L	8260D
Trichloroethene	8.8		0.20	1.0	ug/L	8260D
Zinc, Total	16	J	3	20	ug/L	6010D

CLIENT ID: MW3D-1024			Lab ID: R2410580-001			

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	45		3	20	ug/L	6010D
Calcium, Total	26800		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	1.4		0.23	1.0	ug/L	8260D
Iron, Total	80	J	70	100	ug/L	6010D



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW3D-1024			Lab ID: R2410580-001			

Analyte	Results	Flag	MDL	MRL	Units	Method
Magnesium, Total	3100		30	1000	ug/L	6010D
Potassium, Total	4500		400	2000	ug/L	6010D
Sodium, Total	19400		300	1000	ug/L	6010D
Trichloroethene	0.42	J	0.20	1.0	ug/L	8260D
Zinc, Total	14	J	3	20	ug/L	6010D

CLIENT ID: MW18S-1024			Lab ID: R2410580-008			

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	36		3	20	ug/L	6010D
Calcium, Total	29200		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	0.77	J	0.23	1.0	ug/L	8260D
Iron, Total	450		70	100	ug/L	6010D
Magnesium, Total	13400		30	1000	ug/L	6010D
Manganese, Total	130		4	10	ug/L	6010D
Nickel, Total	14	J	3	40	ug/L	6010D
Potassium, Total	1700	J	400	2000	ug/L	6010D
Sodium, Total	3900		300	1000	ug/L	6010D
Trichloroethene	1.0		0.20	1.0	ug/L	8260D
Zinc, Total	17	J	3	20	ug/L	6010D

CLIENT ID: MW18D-1024			Lab ID: R2410580-009			

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	73		3	20	ug/L	6010D
Calcium, Total	39100		300	1000	ug/L	6010D
Iron, Total	7470		70	100	ug/L	6010D
Magnesium, Total	18600		30	1000	ug/L	6010D
Manganese, Total	698		4	10	ug/L	6010D
Potassium, Total	2600		400	2000	ug/L	6010D
Sodium, Total	21000		300	1000	ug/L	6010D
Zinc, Total	3	J	3	20	ug/L	6010D

CLIENT ID: MW17D-1024			Lab ID: R2410580-007			

Analyte	Results	Flag	MDL	MRL	Units	Method
Calcium, Total	5500		300	1000	ug/L	6010D
Iron, Total	14100		70	100	ug/L	6010D
Magnesium, Total	22400		30	1000	ug/L	6010D
Manganese, Total	153		4	10	ug/L	6010D
Nickel, Total	7	J	3	40	ug/L	6010D
Potassium, Total	4600		400	2000	ug/L	6010D
Sodium, Total	33500		300	1000	ug/L	6010D



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling

Service Request:R2410580

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2410580-001	MW3D-1024	10/16/2024	1145
R2410580-002	MW4D-1024	10/16/2024	1310
R2410580-003	MW5D-1024	10/16/2024	1445
R2410580-004	MW17S-1024	10/17/2024	0935
R2410580-006	DUP1-1024	10/17/2024	0945
R2410580-007	MW17D-1024	10/17/2024	1140
R2410580-008	MW18S-1024	10/17/2024	1310
R2410580-009	MW18D-1024	10/17/2024	1440



Cooler Receipt and Preservation Check Form

R2410580

5

On-Site Geological Services
WAL - Semiannual Sampling



Project/Client _____ Folder Number _____

Cooler received on 10/18/24 by: RDA

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Did VOA vials have sig* bubbles?	Y <u>N</u> <u>NA</u>
5b	Sig* bubbles: Alk? Y N <u>NA</u> Sulfide? Y N <u>NA</u>	
6	Where did the bottles originate?	<u>ALS/ROZ</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set <u>NA</u>	

8. Temperature Readings Date: 10/18/24 Time: 1315 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)							
Within 0-6°C?	<u>Y</u> <u>N</u>	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: SMO by RDA on 10/18/24 at 1517
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/19/24 Time: 10:55 by: MM, AA

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO NA
- Were dissolved metals filtered in the field? YES NO NA
- Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated NA

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>204524</u>	HNO ₃	<u>✓</u>		<u>client label</u>					
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>24009230</u>	<u>1/27</u>				

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: Label, 0706241-3AXH, 112723-2ERG, 012924-1GJS
Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
<u>SUB</u>	HGFB
ALS	LL3541

Labels secondary reviewed by: MM *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410580

Sample Name: MW3D-1024
Lab Code: R2410580-001
Sample Matrix: Water

Date Collected: 10/16/24
Date Received: 10/18/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER

Sample Name: MW4D-1024
Lab Code: R2410580-002
Sample Matrix: Water

Date Collected: 10/16/24
Date Received: 10/18/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER

Sample Name: MW4D-1024
Lab Code: R2410580-002.R01
Sample Matrix: Water

Date Collected: 10/16/24
Date Received: 10/18/24

Analysis Method
8260D

Extracted/Digested By

Analyzed By
FNAEGLER

Sample Name: MW5D-1024
Lab Code: R2410580-003
Sample Matrix: Water

Date Collected: 10/16/24
Date Received: 10/18/24

Analysis Method
6010D
8260D
8270E SIM

Extracted/Digested By
CDISTEFANO

KPROCOPIO

Analyzed By
NMANSEN
FNAEGLER
KPROCOPIO

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410580

Sample Name: MW17S-1024
Lab Code: R2410580-004
Sample Matrix: Water

Date Collected: 10/17/24
Date Received: 10/18/24

Analysis Method
6010D
8260D
8270E SIM

Extracted/Digested By
CDISTEFANO

KPROCOPIO

Analyzed By
NMANSEN
FNAEGLER
KPROCOPIO

Sample Name: MW17S-1024
Lab Code: R2410580-004.R01
Sample Matrix: Water

Date Collected: 10/17/24
Date Received: 10/18/24

Analysis Method
8270E SIM

Extracted/Digested By
KPROCOPIO

Analyzed By
KPROCOPIO

Sample Name: DUP1-1024
Lab Code: R2410580-006
Sample Matrix: Water

Date Collected: 10/17/24
Date Received: 10/18/24

Analysis Method
6010D
8260D
8270E SIM

Extracted/Digested By
CDISTEFANO

KPROCOPIO

Analyzed By
NMANSEN
FNAEGLER
KPROCOPIO

Sample Name: DUP1-1024
Lab Code: R2410580-006.R01
Sample Matrix: Water

Date Collected: 10/17/24
Date Received: 10/18/24

Analysis Method
8270E SIM

Extracted/Digested By
KPROCOPIO

Analyzed By
KPROCOPIO

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410580

Sample Name: MW17D-1024
Lab Code: R2410580-007
Sample Matrix: Water

Date Collected: 10/17/24
Date Received: 10/18/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER

Sample Name: MW18S-1024
Lab Code: R2410580-008
Sample Matrix: Water

Date Collected: 10/17/24
Date Received: 10/18/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER

Sample Name: MW18D-1024
Lab Code: R2410580-009
Sample Matrix: Water

Date Collected: 10/17/24
Date Received: 10/18/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
FNAEGLER



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

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Volatile Organic Compounds by GC/MS

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Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/16/24 11:45
Date Received: 10/18/24 14:45

Sample Name: MW3D-1024
Lab Code: R2410580-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 14:30	
Benzene	1.0 U	1.0	0.20	1	10/28/24 14:30	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 14:30	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 14:30	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 14:30	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 14:30	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 14:30	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 14:30	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 14:30	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 14:30	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 14:30	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 14:30	
cis-1,2-Dichloroethene	1.4	1.0	0.23	1	10/28/24 14:30	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 14:30	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 14:30	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 14:30	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 14:30	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 14:30	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 14:30	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 14:30	
Styrene	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 14:30	
Toluene	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 14:30	
Trichloroethene	0.42 J	1.0	0.20	1	10/28/24 14:30	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 14:30	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 14:30	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 14:30	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/16/24 11:45
Date Received: 10/18/24 14:45

Sample Name: MW3D-1024
Lab Code: R2410580-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	10/28/24 14:30	
Toluene-d8	98	87 - 121	10/28/24 14:30	
Dibromofluoromethane	93	80 - 116	10/28/24 14:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/16/24 13:10
Date Received: 10/18/24 14:45

Sample Name: MW4D-1024
Lab Code: R2410580-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 16:47	
Benzene	0.37 J	1.0	0.20	1	10/28/24 16:47	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 16:47	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 16:47	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 16:47	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 16:47	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 16:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 16:47	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 16:47	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 16:47	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 16:47	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 16:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 16:47	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 16:47	
1,1-Dichloroethane	0.36 J	1.0	0.20	1	10/28/24 16:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:47	
1,1-Dichloroethene	0.24 J	1.0	0.20	1	10/28/24 16:47	
cis-1,2-Dichloroethene	230 E	1.0	0.23	1	10/28/24 16:47	
trans-1,2-Dichloroethene	1.2	1.0	0.20	1	10/28/24 16:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 16:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 16:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 16:47	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 16:47	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 16:47	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 16:47	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 16:47	
Styrene	1.0 U	1.0	0.20	1	10/28/24 16:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 16:47	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 16:47	
Toluene	1.0 U	1.0	0.20	1	10/28/24 16:47	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:47	
Trichloroethene	0.95 J	1.0	0.20	1	10/28/24 16:47	
Vinyl Chloride	55	1.0	0.20	1	10/28/24 16:47	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 16:47	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 16:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/28/24 16:47	
Toluene-d8	103	87 - 121	10/28/24 16:47	
Dibromofluoromethane	99	80 - 116	10/28/24 16:47	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/16/24 13:10
Date Received: 10/18/24 14:45

Sample Name: MW4D-1024
Lab Code: R2410580-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	10 U	10	10	2	10/29/24 14:08	
Benzene	2.0 U	2.0	0.40	2	10/29/24 14:08	
Bromodichloromethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
Bromoform	2.0 U	2.0	0.50	2	10/29/24 14:08	
Bromomethane	2.0 U	2.0	1.4	2	10/29/24 14:08	
2-Butanone (MEK)	10 U	10	1.6	2	10/29/24 14:08	
Carbon Disulfide	2.0 U	2.0	0.84	2	10/29/24 14:08	
Carbon Tetrachloride	2.0 U	2.0	0.68	2	10/29/24 14:08	
Chlorobenzene	2.0 U	2.0	0.40	2	10/29/24 14:08	
Chloroethane	2.0 U	2.0	0.46	2	10/29/24 14:08	
Chloroform	2.0 U	2.0	1.1	2	10/29/24 14:08	
Chloromethane	2.0 U	2.0	1.6	2	10/29/24 14:08	
Dibromochloromethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
1,1-Dichloroethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
1,2-Dibromoethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
1,2-Dichloroethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
1,1-Dichloroethene	2.0 U	2.0	0.40	2	10/29/24 14:08	
cis-1,2-Dichloroethene	190 D	2.0	0.46	2	10/29/24 14:08	
trans-1,2-Dichloroethene	1.1 DJ	2.0	0.40	2	10/29/24 14:08	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	10/29/24 14:08	
cis-1,3-Dichloropropene	2.0 U	2.0	0.40	2	10/29/24 14:08	
trans-1,3-Dichloropropene	2.0 U	2.0	0.46	2	10/29/24 14:08	
Ethylbenzene	2.0 U	2.0	0.40	2	10/29/24 14:08	
2-Hexanone	10 U	10	0.40	2	10/29/24 14:08	
Methylene Chloride	2.0 U	2.0	1.3	2	10/29/24 14:08	
4-Methyl-2-pentanone (MIBK)	10 U	10	0.40	2	10/29/24 14:08	
Styrene	2.0 U	2.0	0.40	2	10/29/24 14:08	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
Tetrachloroethene	2.0 U	2.0	0.42	2	10/29/24 14:08	
Toluene	2.0 U	2.0	0.40	2	10/29/24 14:08	
1,1,1-Trichloroethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
1,1,2-Trichloroethane	2.0 U	2.0	0.40	2	10/29/24 14:08	
Trichloroethene	0.93 DJ	2.0	0.40	2	10/29/24 14:08	
Vinyl Chloride	43 D	2.0	0.40	2	10/29/24 14:08	
o-Xylene	2.0 U	2.0	0.40	2	10/29/24 14:08	
m,p-Xylenes	4.0 U	4.0	1.1	2	10/29/24 14:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	10/29/24 14:08	
Toluene-d8	102	87 - 121	10/29/24 14:08	
Dibromofluoromethane	97	80 - 116	10/29/24 14:08	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/16/24 14:45
Date Received: 10/18/24 14:45

Sample Name: MW5D-1024
Lab Code: R2410580-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 17:09	
Benzene	1.0 U	1.0	0.20	1	10/28/24 17:09	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 17:09	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 17:09	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 17:09	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 17:09	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 17:09	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 17:09	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 17:09	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 17:09	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 17:09	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 17:09	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 17:09	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 17:09	
1,1-Dichloroethane	0.22 J	1.0	0.20	1	10/28/24 17:09	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 17:09	
1,1-Dichloroethene	0.52 J	1.0	0.20	1	10/28/24 17:09	
cis-1,2-Dichloroethene	110	1.0	0.23	1	10/28/24 17:09	
trans-1,2-Dichloroethene	0.52 J	1.0	0.20	1	10/28/24 17:09	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 17:09	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 17:09	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 17:09	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 17:09	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 17:09	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 17:09	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 17:09	
Styrene	1.0 U	1.0	0.20	1	10/28/24 17:09	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 17:09	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 17:09	
Toluene	1.0 U	1.0	0.20	1	10/28/24 17:09	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 17:09	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 17:09	
Trichloroethene	25	1.0	0.20	1	10/28/24 17:09	
Vinyl Chloride	7.3	1.0	0.20	1	10/28/24 17:09	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 17:09	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 17:09	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/16/24 14:45
Date Received: 10/18/24 14:45

Sample Name: MW5D-1024
Lab Code: R2410580-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	10/28/24 17:09	
Toluene-d8	101	87 - 121	10/28/24 17:09	
Dibromofluoromethane	94	80 - 116	10/28/24 17:09	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:35
Date Received: 10/18/24 14:45

Sample Name: MW17S-1024
Lab Code: R2410580-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 14:53	
Benzene	1.0 U	1.0	0.20	1	10/28/24 14:53	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 14:53	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 14:53	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 14:53	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 14:53	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 14:53	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 14:53	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 14:53	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 14:53	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 14:53	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 14:53	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 14:53	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 14:53	
1,1-Dichloroethane	1.1	1.0	0.20	1	10/28/24 14:53	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 14:53	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 14:53	
cis-1,2-Dichloroethene	30	1.0	0.23	1	10/28/24 14:53	
trans-1,2-Dichloroethene	0.28 J	1.0	0.20	1	10/28/24 14:53	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 14:53	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 14:53	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 14:53	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 14:53	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 14:53	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 14:53	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 14:53	
Styrene	1.0 U	1.0	0.20	1	10/28/24 14:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 14:53	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 14:53	
Toluene	1.0 U	1.0	0.20	1	10/28/24 14:53	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 14:53	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 14:53	
Trichloroethene	8.7	1.0	0.20	1	10/28/24 14:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 14:53	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 14:53	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 14:53	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:35
Date Received: 10/18/24 14:45

Sample Name: MW17S-1024
Lab Code: R2410580-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	10/28/24 14:53	
Toluene-d8	99	87 - 121	10/28/24 14:53	
Dibromofluoromethane	96	80 - 116	10/28/24 14:53	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:45
Date Received: 10/18/24 14:45

Sample Name: DUP1-1024
Lab Code: R2410580-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 16:24	
Benzene	1.0 U	1.0	0.20	1	10/28/24 16:24	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 16:24	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 16:24	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 16:24	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 16:24	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 16:24	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 16:24	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 16:24	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 16:24	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 16:24	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 16:24	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 16:24	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 16:24	
1,1-Dichloroethane	0.98 J	1.0	0.20	1	10/28/24 16:24	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:24	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 16:24	
cis-1,2-Dichloroethene	31	1.0	0.23	1	10/28/24 16:24	
trans-1,2-Dichloroethene	0.27 J	1.0	0.20	1	10/28/24 16:24	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 16:24	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 16:24	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 16:24	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 16:24	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 16:24	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 16:24	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 16:24	
Styrene	1.0 U	1.0	0.20	1	10/28/24 16:24	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 16:24	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 16:24	
Toluene	1.0 U	1.0	0.20	1	10/28/24 16:24	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:24	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:24	
Trichloroethene	8.8	1.0	0.20	1	10/28/24 16:24	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 16:24	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 16:24	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 16:24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:45
Date Received: 10/18/24 14:45

Sample Name: DUP1-1024
Lab Code: R2410580-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	10/28/24 16:24	
Toluene-d8	101	87 - 121	10/28/24 16:24	
Dibromofluoromethane	94	80 - 116	10/28/24 16:24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 11:40
Date Received: 10/18/24 14:45

Sample Name: MW17D-1024
Lab Code: R2410580-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 15:16	
Benzene	1.0 U	1.0	0.20	1	10/28/24 15:16	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 15:16	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 15:16	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 15:16	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 15:16	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 15:16	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 15:16	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 15:16	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 15:16	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 15:16	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 15:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/28/24 15:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 15:16	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 15:16	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 15:16	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 15:16	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 15:16	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 15:16	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 15:16	
Styrene	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 15:16	
Toluene	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:16	
Trichloroethene	1.0 U	1.0	0.20	1	10/28/24 15:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 15:16	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 15:16	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 15:16	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 11:40
Date Received: 10/18/24 14:45

Sample Name: MW17D-1024
Lab Code: R2410580-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/28/24 15:16	
Toluene-d8	108	87 - 121	10/28/24 15:16	
Dibromofluoromethane	99	80 - 116	10/28/24 15:16	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 13:10
Date Received: 10/18/24 14:45

Sample Name: MW18S-1024
Lab Code: R2410580-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 15:38	
Benzene	1.0 U	1.0	0.20	1	10/28/24 15:38	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 15:38	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 15:38	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 15:38	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 15:38	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 15:38	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 15:38	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 15:38	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 15:38	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 15:38	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 15:38	
cis-1,2-Dichloroethene	0.77 J	1.0	0.23	1	10/28/24 15:38	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 15:38	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 15:38	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 15:38	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 15:38	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 15:38	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 15:38	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 15:38	
Styrene	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 15:38	
Toluene	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 15:38	
Trichloroethene	1.0	1.0	0.20	1	10/28/24 15:38	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 15:38	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 15:38	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 15:38	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 13:10
Date Received: 10/18/24 14:45

Sample Name: MW18S-1024
Lab Code: R2410580-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/28/24 15:38	
Toluene-d8	106	87 - 121	10/28/24 15:38	
Dibromofluoromethane	100	80 - 116	10/28/24 15:38	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 14:40
Date Received: 10/18/24 14:45

Sample Name: MW18D-1024
Lab Code: R2410580-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 16:01	
Benzene	1.0 U	1.0	0.20	1	10/28/24 16:01	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 16:01	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 16:01	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 16:01	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 16:01	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 16:01	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 16:01	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 16:01	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 16:01	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 16:01	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 16:01	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/28/24 16:01	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 16:01	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 16:01	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 16:01	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 16:01	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 16:01	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 16:01	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 16:01	
Styrene	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 16:01	
Toluene	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 16:01	
Trichloroethene	1.0 U	1.0	0.20	1	10/28/24 16:01	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 16:01	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 16:01	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 16:01	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 14:40
Date Received: 10/18/24 14:45

Sample Name: MW18D-1024
Lab Code: R2410580-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	10/28/24 16:01	
Toluene-d8	101	87 - 121	10/28/24 16:01	
Dibromofluoromethane	97	80 - 116	10/28/24 16:01	



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/16/24 14:45
Date Received: 10/18/24 14:45

Sample Name: MW5D-1024
Lab Code: R2410580-003

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.33	0.040	0.035	1	10/22/24 16:58	10/22/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	74	64 - 124	10/22/24 16:58	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:35
Date Received: 10/18/24 14:45

Sample Name: MW17S-1024
Lab Code: R2410580-004

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.40	0.040	0.035	1	11/13/24 00:50	11/9/24	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	89	64 - 124	11/13/24 00:50	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:35
Date Received: 10/18/24 14:45

Sample Name: MW17S-1024
Lab Code: R2410580-004

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.40 B	0.040	0.035	1	11/06/24 12:17	10/24/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	61 *	64 - 124	11/06/24 12:17	*

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:45
Date Received: 10/18/24 14:45

Sample Name: DUP1-1024
Lab Code: R2410580-006

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.43	0.040	0.035	1	11/13/24 07:58	11/12/24	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	86	64 - 124	11/13/24 07:58	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:45
Date Received: 10/18/24 14:45

Sample Name: DUP1-1024
Lab Code: R2410580-006

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.38 B	0.040	0.035	1	11/06/24 12:35	10/24/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	73	64 - 124	11/06/24 12:35	



Metals

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MW3D-1024
Lab Code: R2410580-001

Service Request: R2410580
Date Collected: 10/16/24 11:45
Date Received: 10/18/24 14:45

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:07	10/24/24	
Barium, Total	6010D	45	ug/L	20	3	1	10/25/24 23:07	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:07	10/24/24	
Calcium, Total	6010D	26800	ug/L	1000	300	1	10/25/24 23:07	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:07	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:07	10/24/24	
Iron, Total	6010D	80 J	ug/L	100	70	1	10/25/24 23:07	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:07	10/24/24	
Magnesium, Total	6010D	3100	ug/L	1000	30	1	10/25/24 23:07	10/24/24	
Manganese, Total	6010D	10 U	ug/L	10	4	1	10/25/24 23:07	10/24/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/25/24 23:07	10/24/24	
Potassium, Total	6010D	4500	ug/L	2000	400	1	10/25/24 23:07	10/24/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/25/24 23:07	10/24/24	
Sodium, Total	6010D	19400	ug/L	1000	300	1	10/25/24 23:07	10/24/24	
Zinc, Total	6010D	14 J	ug/L	20	3	1	10/25/24 23:07	10/24/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MW4D-1024
Lab Code: R2410580-002

Service Request: R2410580
Date Collected: 10/16/24 13:10
Date Received: 10/18/24 14:45

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:10	10/24/24	
Barium, Total	6010D	23	ug/L	20	3	1	10/25/24 23:10	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:10	10/24/24	
Calcium, Total	6010D	24800	ug/L	1000	300	1	10/25/24 23:10	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:10	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:10	10/24/24	
Iron, Total	6010D	620	ug/L	100	70	1	10/25/24 23:10	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:10	10/24/24	
Magnesium, Total	6010D	21300	ug/L	1000	30	1	10/25/24 23:10	10/24/24	
Manganese, Total	6010D	2880	ug/L	10	4	1	10/25/24 23:10	10/24/24	
Nickel, Total	6010D	19 J	ug/L	40	3	1	10/25/24 23:10	10/24/24	
Potassium, Total	6010D	2300	ug/L	2000	400	1	10/25/24 23:10	10/24/24	
Selenium, Total	6010D	8 J	ug/L	10	7	1	10/25/24 23:10	10/24/24	
Sodium, Total	6010D	6400	ug/L	1000	300	1	10/25/24 23:10	10/24/24	
Zinc, Total	6010D	31	ug/L	20	3	1	10/25/24 23:10	10/24/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MW5D-1024
Lab Code: R2410580-003

Service Request: R2410580
Date Collected: 10/16/24 14:45
Date Received: 10/18/24 14:45

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:13	10/24/24	
Barium, Total	6010D	29	ug/L	20	3	1	10/25/24 23:13	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:13	10/24/24	
Calcium, Total	6010D	15900	ug/L	1000	300	1	10/25/24 23:13	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:13	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:13	10/24/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/25/24 23:13	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:13	10/24/24	
Magnesium, Total	6010D	10200	ug/L	1000	30	1	10/25/24 23:13	10/24/24	
Manganese, Total	6010D	462	ug/L	10	4	1	10/25/24 23:13	10/24/24	
Nickel, Total	6010D	14 J	ug/L	40	3	1	10/25/24 23:13	10/24/24	
Potassium, Total	6010D	1200 J	ug/L	2000	400	1	10/25/24 23:13	10/24/24	
Selenium, Total	6010D	8 J	ug/L	10	7	1	10/25/24 23:13	10/24/24	
Sodium, Total	6010D	6500	ug/L	1000	300	1	10/25/24 23:13	10/24/24	
Zinc, Total	6010D	4 J	ug/L	20	3	1	10/25/24 23:13	10/24/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:35
Date Received: 10/18/24 14:45

Sample Name: MW17S-1024
Lab Code: R2410580-004

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:23	10/24/24	
Barium, Total	6010D	49	ug/L	20	3	1	10/25/24 23:23	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:23	10/24/24	
Calcium, Total	6010D	102000	ug/L	1000	300	1	10/25/24 23:23	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:23	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:23	10/24/24	
Iron, Total	6010D	140	ug/L	100	70	1	10/25/24 23:23	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:23	10/24/24	
Magnesium, Total	6010D	73000	ug/L	1000	30	1	10/25/24 23:23	10/24/24	
Manganese, Total	6010D	108	ug/L	10	4	1	10/25/24 23:23	10/24/24	
Nickel, Total	6010D	14 J	ug/L	40	3	1	10/25/24 23:23	10/24/24	
Potassium, Total	6010D	4200	ug/L	2000	400	1	10/25/24 23:23	10/24/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/25/24 23:23	10/24/24	
Sodium, Total	6010D	86800	ug/L	1000	300	1	10/25/24 23:23	10/24/24	
Zinc, Total	6010D	17 J	ug/L	20	3	1	10/25/24 23:23	10/24/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 09:45
Date Received: 10/18/24 14:45

Sample Name: DUP1-1024
Lab Code: R2410580-006

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:29	10/24/24	
Barium, Total	6010D	48	ug/L	20	3	1	10/25/24 23:29	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:29	10/24/24	
Calcium, Total	6010D	99300	ug/L	1000	300	1	10/25/24 23:29	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:29	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:29	10/24/24	
Iron, Total	6010D	140	ug/L	100	70	1	10/25/24 23:29	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:29	10/24/24	
Magnesium, Total	6010D	71200	ug/L	1000	30	1	10/25/24 23:29	10/24/24	
Manganese, Total	6010D	110	ug/L	10	4	1	10/25/24 23:29	10/24/24	
Nickel, Total	6010D	13 J	ug/L	40	3	1	10/25/24 23:29	10/24/24	
Potassium, Total	6010D	4100	ug/L	2000	400	1	10/25/24 23:29	10/24/24	
Selenium, Total	6010D	8 J	ug/L	10	7	1	10/25/24 23:29	10/24/24	
Sodium, Total	6010D	84400	ug/L	1000	300	1	10/25/24 23:29	10/24/24	
Zinc, Total	6010D	16 J	ug/L	20	3	1	10/25/24 23:29	10/24/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: MW17D-1024
Lab Code: R2410580-007

Service Request: R2410580
Date Collected: 10/17/24 11:40
Date Received: 10/18/24 14:45

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:32	10/24/24	
Barium, Total	6010D	20 U	ug/L	20	3	1	10/25/24 23:32	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:32	10/24/24	
Calcium, Total	6010D	5500	ug/L	1000	300	1	10/25/24 23:32	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:32	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:32	10/24/24	
Iron, Total	6010D	14100	ug/L	100	70	1	10/25/24 23:32	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:32	10/24/24	
Magnesium, Total	6010D	22400	ug/L	1000	30	1	10/25/24 23:32	10/24/24	
Manganese, Total	6010D	153	ug/L	10	4	1	10/25/24 23:32	10/24/24	
Nickel, Total	6010D	7 J	ug/L	40	3	1	10/25/24 23:32	10/24/24	
Potassium, Total	6010D	4600	ug/L	2000	400	1	10/25/24 23:32	10/24/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/25/24 23:32	10/24/24	
Sodium, Total	6010D	33500	ug/L	1000	300	1	10/25/24 23:32	10/24/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	10/25/24 23:32	10/24/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 13:10
Date Received: 10/18/24 14:45

Sample Name: MW18S-1024
Lab Code: R2410580-008

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:36	10/24/24	
Barium, Total	6010D	36	ug/L	20	3	1	10/25/24 23:36	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:36	10/24/24	
Calcium, Total	6010D	29200	ug/L	1000	300	1	10/25/24 23:36	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:36	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:36	10/24/24	
Iron, Total	6010D	450	ug/L	100	70	1	10/25/24 23:36	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:36	10/24/24	
Magnesium, Total	6010D	13400	ug/L	1000	30	1	10/25/24 23:36	10/24/24	
Manganese, Total	6010D	130	ug/L	10	4	1	10/25/24 23:36	10/24/24	
Nickel, Total	6010D	14 J	ug/L	40	3	1	10/25/24 23:36	10/24/24	
Potassium, Total	6010D	1700 J	ug/L	2000	400	1	10/25/24 23:36	10/24/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/25/24 23:36	10/24/24	
Sodium, Total	6010D	3900	ug/L	1000	300	1	10/25/24 23:36	10/24/24	
Zinc, Total	6010D	17 J	ug/L	20	3	1	10/25/24 23:36	10/24/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: 10/17/24 14:40
Date Received: 10/18/24 14:45

Sample Name: MW18D-1024
Lab Code: R2410580-009

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 23:39	10/24/24	
Barium, Total	6010D	73	ug/L	20	3	1	10/25/24 23:39	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 23:39	10/24/24	
Calcium, Total	6010D	39100	ug/L	1000	300	1	10/25/24 23:39	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 23:39	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 23:39	10/24/24	
Iron, Total	6010D	7470	ug/L	100	70	1	10/25/24 23:39	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 23:39	10/24/24	
Magnesium, Total	6010D	18600	ug/L	1000	30	1	10/25/24 23:39	10/24/24	
Manganese, Total	6010D	698	ug/L	10	4	1	10/25/24 23:39	10/24/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/25/24 23:39	10/24/24	
Potassium, Total	6010D	2600	ug/L	2000	400	1	10/25/24 23:39	10/24/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/25/24 23:39	10/24/24	
Sodium, Total	6010D	21000	ug/L	1000	300	1	10/25/24 23:39	10/24/24	
Zinc, Total	6010D	3 J	ug/L	20	3	1	10/25/24 23:39	10/24/24	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
MW3D-1024	R2410580-001	91	93	98
MW4D-1024	R2410580-002	97	99	103
MW4D-1024 DL	R2410580-002	96	97	102
MW5D-1024	R2410580-003	97	94	101
MW17S-1024	R2410580-004	93	96	99
DUP1-1024	R2410580-006	94	94	101
MW17D-1024	R2410580-007	100	99	108
MW18S-1024	R2410580-008	101	100	106
MW18D-1024	R2410580-009	95	97	101
Lab Control Sample	RQ2413748-03	98	99	103
Lab Control Sample	RQ2413748-04	93	93	98
Method Blank	RQ2413748-05	91	92	97
Lab Control Sample	RQ2413892-03	100	102	104
Lab Control Sample	RQ2413892-04	106	103	108
Method Blank	RQ2413892-05	94	95	101

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413748-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 11:05	
Benzene	1.0 U	1.0	0.20	1	10/28/24 11:05	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 11:05	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 11:05	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 11:05	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 11:05	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 11:05	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 11:05	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 11:05	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 11:05	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 11:05	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 11:05	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/28/24 11:05	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 11:05	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 11:05	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 11:05	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 11:05	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 11:05	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 11:05	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 11:05	
Styrene	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 11:05	
Toluene	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 11:05	
Trichloroethene	1.0 U	1.0	0.20	1	10/28/24 11:05	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 11:05	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 11:05	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 11:05	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413748-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	10/28/24 11:05	
Toluene-d8	97	87 - 121	10/28/24 11:05	
Dibromofluoromethane	92	80 - 116	10/28/24 11:05	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413892-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/29/24 13:19	
Benzene	1.0 U	1.0	0.20	1	10/29/24 13:19	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
Bromoform	1.0 U	1.0	0.25	1	10/29/24 13:19	
Bromomethane	1.0 U	1.0	0.70	1	10/29/24 13:19	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/29/24 13:19	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/29/24 13:19	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/29/24 13:19	
Chlorobenzene	1.0 U	1.0	0.20	1	10/29/24 13:19	
Chloroethane	1.0 U	1.0	0.23	1	10/29/24 13:19	
Chloroform	1.0 U	1.0	0.51	1	10/29/24 13:19	
Chloromethane	1.0 U	1.0	0.80	1	10/29/24 13:19	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/29/24 13:19	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/29/24 13:19	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/29/24 13:19	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/29/24 13:19	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/29/24 13:19	
Ethylbenzene	1.0 U	1.0	0.20	1	10/29/24 13:19	
2-Hexanone	5.0 U	5.0	0.20	1	10/29/24 13:19	
Methylene Chloride	1.0 U	1.0	0.65	1	10/29/24 13:19	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/29/24 13:19	
Styrene	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/29/24 13:19	
Toluene	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/29/24 13:19	
Trichloroethene	1.0 U	1.0	0.20	1	10/29/24 13:19	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/29/24 13:19	
o-Xylene	1.0 U	1.0	0.20	1	10/29/24 13:19	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/29/24 13:19	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413892-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	10/29/24 13:19	
Toluene-d8	101	87 - 121	10/29/24 13:19	
Dibromofluoromethane	95	80 - 116	10/29/24 13:19	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Analyzed: 10/28/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413748-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260D	12.9	20.0	65	40-161
Benzene	8260D	21.6	20.0	108	79-119
Bromodichloromethane	8260D	20.1	20.0	100	81-123
Bromoform	8260D	16.6	20.0	83	65-146
Bromomethane	8260D	20.4	20.0	102	42-166
2-Butanone (MEK)	8260D	15.5	20.0	77	61-137
Carbon Disulfide	8260D	19.0	20.0	95	66-128
Carbon Tetrachloride	8260D	19.6	20.0	98	70-127
Chlorobenzene	8260D	20.4	20.0	102	80-121
Chloroethane	8260D	18.3	20.0	92	62-131
Chloroform	8260D	21.4	20.0	107	79-120
Chloromethane	8260D	23.6	20.0	118	61-143
Dibromochloromethane	8260D	17.6	20.0	88	72-128
1,1-Dichloroethane	8260D	21.7	20.0	108	80-124
1,2-Dibromoethane	8260D	18.4	20.0	92	82-127
1,2-Dichloroethane	8260D	21.1	20.0	105	71-127
1,1-Dichloroethene	8260D	22.0	20.0	110	71-118
cis-1,2-Dichloroethene	8260D	23.0	20.0	115	80-121
trans-1,2-Dichloroethene	8260D	19.8	20.0	99	73-118
1,2-Dichloropropane	8260D	20.5	20.0	103	80-119
cis-1,3-Dichloropropene	8260D	20.2	20.0	101	77-122
trans-1,3-Dichloropropene	8260D	20.2	20.0	101	71-133
Ethylbenzene	8260D	20.4	20.0	102	76-120
2-Hexanone	8260D	14.8	20.0	74	63-124
Methylene Chloride	8260D	23.3	20.0	117	73-122
4-Methyl-2-pentanone (MIBK)	8260D	15.5	20.0	77	66-124
Styrene	8260D	20.0	20.0	100	80-124
1,1,2,2-Tetrachloroethane	8260D	16.8	20.0	84	78-126
Tetrachloroethene	8260D	20.8	20.0	104	72-125
Toluene	8260D	21.3	20.0	106	79-119
1,1,1-Trichloroethane	8260D	20.9	20.0	105	75-125
1,1,2-Trichloroethane	8260D	19.5	20.0	98	82-121
Trichloroethene	8260D	20.4	20.0	102	74-122

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Analyzed: 10/28/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413748-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260D	22.4	20.0	112	74-159
o-Xylene	8260D	20.2	20.0	101	79-123
m,p-Xylenes	8260D	42.1	40.0	105	80-126

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Analyzed: 10/29/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413892-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260D	15.5	20.0	77	40-161
Benzene	8260D	22.2	20.0	111	79-119
Bromodichloromethane	8260D	20.2	20.0	101	81-123
Bromoform	8260D	17.7	20.0	88	65-146
Bromomethane	8260D	21.2	20.0	106	42-166
2-Butanone (MEK)	8260D	18.9	20.0	95	61-137
Carbon Disulfide	8260D	18.6	20.0	93	66-128
Carbon Tetrachloride	8260D	19.6	20.0	98	70-127
Chlorobenzene	8260D	20.0	20.0	100	80-121
Chloroethane	8260D	18.8	20.0	94	62-131
Chloroform	8260D	21.4	20.0	107	79-120
Chloromethane	8260D	24.7	20.0	124	61-143
Dibromochloromethane	8260D	18.0	20.0	90	72-128
1,1-Dichloroethane	8260D	23.4	20.0	117	80-124
1,2-Dibromoethane	8260D	19.3	20.0	97	82-127
1,2-Dichloroethane	8260D	22.0	20.0	110	71-127
1,1-Dichloroethene	8260D	22.0	20.0	110	71-118
cis-1,2-Dichloroethene	8260D	23.9	20.0	119	80-121
trans-1,2-Dichloroethene	8260D	21.0	20.0	105	73-118
1,2-Dichloropropane	8260D	21.3	20.0	106	80-119
cis-1,3-Dichloropropene	8260D	20.2	20.0	101	77-122
trans-1,3-Dichloropropene	8260D	21.2	20.0	106	71-133
Ethylbenzene	8260D	20.3	20.0	101	76-120
2-Hexanone	8260D	18.1	20.0	90	63-124
Methylene Chloride	8260D	22.8	20.0	114	73-122
4-Methyl-2-pentanone (MIBK)	8260D	18.7	20.0	94	66-124
Styrene	8260D	20.6	20.0	103	80-124
1,1,2,2-Tetrachloroethane	8260D	19.7	20.0	98	78-126
Tetrachloroethene	8260D	21.0	20.0	105	72-125
Toluene	8260D	21.8	20.0	109	79-119
1,1,1-Trichloroethane	8260D	21.5	20.0	108	75-125
1,1,2-Trichloroethane	8260D	20.9	20.0	105	82-121
Trichloroethene	8260D	21.0	20.0	105	74-122

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580

Date Analyzed: 10/29/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L

Basis:NA

Lab Control Sample

RQ2413892-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260D	23.9	20.0	120	74-159
o-Xylene	8260D	21.2	20.0	106	79-123
m,p-Xylenes	8260D	42.6	40.0	106	80-126



Semivolatile Organic Compounds by GC/MS

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580

SURROGATE RECOVERY SUMMARY
1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Extraction Method: EPA 3535A

Sample Name	Lab Code	Tetrahydrofuran-d8 (SUR)
		64 - 124
MW5D-1024	R2410580-003	74
MW17S-1024	R2410580-004	61 *
MW17S-1024 RE	R2410580-004	89
DUP1-1024	R2410580-006	73
DUP1-1024 RE	R2410580-006	86
Method Blank	RQ2413399-01	69
Lab Control Sample	RQ2413399-02	75
Duplicate Lab Control Sample	RQ2413399-03	71
Method Blank	RQ2413563-01	67
Lab Control Sample	RQ2413563-02	66
Duplicate Lab Control Sample	RQ2413563-03	75
Method Blank	RQ2414562-01	91
Lab Control Sample	RQ2414562-02	89
Duplicate Lab Control Sample	RQ2414562-03	83
Method Blank	RQ2414563-01	91
Lab Control Sample	RQ2414563-02	93
Duplicate Lab Control Sample	RQ2414563-03	92

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413399-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.035	1	10/22/24 12:02	10/22/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	69	64 - 124	10/22/24 12:02	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413563-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.055	0.040	0.035	1	11/06/24 11:26	10/24/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	67	64 - 124	11/06/24 11:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2414562-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.035	1	11/12/24 23:57	11/9/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	91	64 - 124	11/12/24 23:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2414563-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.035	1	11/13/24 07:04	11/12/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	91	64 - 124	11/13/24 07:04	

Client:
Project:
Sample Matrix:

On-Site Geological Services DPC
WAL - Semiannual Sampling
Water

Service Request: R2410580
Date Analyzed: 10/22/24

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2413399-02			RQ2413399-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dioxane	8270E SIM	7.41	9.83	75	7.32	9.83	74	58-124	1	30

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Analyzed: 11/06/24

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2413563-02			RQ2413563-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dioxane	8270E SIM	7.26	9.83	74	7.73	9.83	79	58-124	6	30

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Analyzed: 11/13/24

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2414562-02			RQ2414562-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dioxane	8270E SIM	8.93	10.0	89	9.02	10.0	90	58-124	<1	30

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Analyzed: 11/13/24

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2414563-02			RQ2414563-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dioxane	8270E SIM	9.31	10.0	93	9.38	10.0	94	58-124	<1	30



Metals

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2410580-MB

Service Request: R2410580
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/25/24 22:05	10/24/24	
Barium, Total	6010D	20 U	ug/L	20	3	1	10/25/24 22:05	10/24/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/25/24 22:05	10/24/24	
Calcium, Total	6010D	1000 U	ug/L	1000	300	1	10/25/24 22:05	10/24/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/25/24 22:05	10/24/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/25/24 22:05	10/24/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/25/24 22:05	10/24/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/25/24 22:05	10/24/24	
Magnesium, Total	6010D	1000 U	ug/L	1000	30	1	10/25/24 22:05	10/24/24	
Manganese, Total	6010D	10 U	ug/L	10	4	1	10/25/24 22:05	10/24/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/25/24 22:05	10/24/24	
Potassium, Total	6010D	2000 U	ug/L	2000	400	1	10/25/24 22:05	10/24/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	10/25/24 22:05	10/24/24	
Sodium, Total	6010D	1000 U	ug/L	1000	300	1	10/25/24 22:05	10/24/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	10/25/24 22:05	10/24/24	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410580
Date Analyzed: 10/25/24

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2410580-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010D	34.8	40	87	80-120
Barium, Total	6010D	1960	2000	98	80-120
Cadmium, Total	6010D	51.0	50.0	102	80-120
Calcium, Total	6010D	2030	2000	102	80-120
Chromium, Total	6010D	202	200	101	80-120
Copper, Total	6010D	254	250	102	80-120
Iron, Total	6010D	992	1000	99	80-120
Lead, Total	6010D	521	500	104	80-120
Magnesium, Total	6010D	1960	2000	98	80-120
Manganese, Total	6010D	482	500	96	80-120
Nickel, Total	6010D	499	500	100	80-120
Potassium, Total	6010D	19400	20000	97	80-120
Selenium, Total	6010D	982	1010	97	80-120
Sodium, Total	6010D	19700	20000	99	80-120
Zinc, Total	6010D	499	500	100	80-120



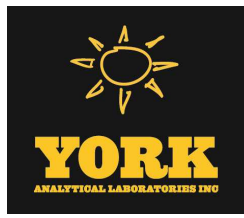
Subcontracted Analytical Parameters

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Technical Report

prepared for:

ALS Environmental
1565 Jefferson Road
Rochester NY, 14623
Attention: Christopher Leavy

Report Date: 10/31/2024
Client Project ID: R2410580
York Project (SDG) No.: 24J1615

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

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/31/2024
Client Project ID: R2410580
York Project (SDG) No.: 24J1615

ALS Environmental
1565 Jefferson Road
Rochester NY, 14623
Attention: Christopher Leavy

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 October 23, 2024 and listed below. The project was identified as your project: **R2410580**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
24J1615-01	MW17S-1024	Water	10/17/2024	10/23/2024
24J1615-02	FB1-1024	Water	10/17/2024	10/23/2024
24J1615-03	DUP1-1024	Water	10/17/2024	10/23/2024

General Notes for York Project (SDG) No.: 24J1615

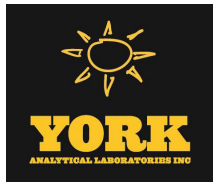
1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
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
Laboratory Manager

Date: 10/31/2024





Sample Information

Client Sample ID: MW17S-1024

York Sample ID: 24J1615-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24J1615

R2410580

Water

October 17, 2024 9:35 am

10/23/2024

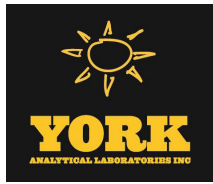
PFAS, EPA 1633 Target List

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)	1.49	J	ng/L	0.826	3.11	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	4.71		ng/L	0.615	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.33	PF-CCV -H	ng/L	1.25	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.55	J	ng/L	1.20	3.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
335-67-1	Perfluorooctanoic acid (PFOA)	14.6		ng/L	0.738	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.44	3.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
375-95-1	Perfluorononanoic acid (PFNA)	0.950	J	ng/L	0.914	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.32	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.99	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.55	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.30	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.21	3.52	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.39	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.81	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.404	7.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.55	3.52	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.60	3.36	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.32	3.39	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.5	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.60	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.580	14.1	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.879	6.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:13	AM



Sample Information

Client Sample ID: MW17S-1024

York Sample ID: 24J1615-01

York Project (SDG) No.

24J1615

Client Project ID

R2410580

Matrix

Water

Collection Date/Time

October 17, 2024 9:35 am

Date Received

10/23/2024

PFAS, EPA 1633 Target List

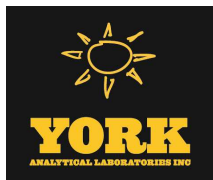
Log-in Notes:

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	3.76	7.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:13	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS -L	ng/L	0.440	7.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:13	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.651	7.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:13	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.34	3.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.15	13.2	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	5.68	14.1	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
83329-89-9	11CL-PF3OUdS	ND		ng/L	2.43	13.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.23	13.2	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
919005-14-4	ADONA	ND		ng/L	0.932	13.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.64	3.41	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.51	3.38	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:13	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS -L	ng/L	3.57	8.79	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	12.9	44.0	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	16.7	44.0	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.02	35.2	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.78	3.52	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM
1691-99-2	* N-EtFOSE	ND		ng/L	7.02	35.2	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.16	3.52	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:13	AM

Surrogate Recoveries		Result	Acceptance Range
M3PFBS	Surrogate: M3PFBS	56.9 %	25-150
13C5PFHXA	Surrogate: M5PFHxA	78.2 %	25-150
13C4PFHPA	Surrogate: M4PFHpA	78.0 %	25-150
13C3PFHXS	Surrogate: M3PFHxS	92.8 %	25-150
13C8PFOA	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	119 %	25-150
13C6PFDA	Surrogate: M6PFDA	107 %	25-150
13C7PFUNA	Surrogate: M7PFUdA	70.2 %	25-150



Sample Information

Client Sample ID: MW17S-1024

York Sample ID: 24J1615-01

York Project (SDG) No.
24J1615

Client Project ID
R2410580

Matrix
Water

Collection Date/Time
October 17, 2024 9:35 am

Date Received
10/23/2024

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)	52.0 %			25-150						
13C2PFTEDA	Surrogate: M2PFTeDA	51.0 %			10-150						
13C4PFBA	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	2.53 %	PFSu-L		25-150						
13C8PFOS	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	83.5 %			25-150						
2283397-79-3	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	25.7 %			25-150						
13C8FOSA	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	103 %			10-150						
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	67.1 %			25-150						
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	76.9 %			25-150						
M2-6:2FTS	Surrogate: M2-6:2 FTS	70.9 %			25-200						
M2-8:2FTS	Surrogate: M2-8:2 FTS	67.2 %			25-200						
13C9PFNA	Surrogate: M9PFNA	94.5 %			25-150						
M2-4:2FTS	Surrogate: M2-4:2 FTS	68.2 %			25-150						
d-N-MeFOSA	Surrogate: d-N-MeFOSA	39.0 %			25-150						
d-N-EtFOSA	Surrogate: d-N-EtFOSA	31.0 %			25-150						
M3HFPO-DA	Surrogate: M3HFPO-DA	74.4 %			25-150						
D9-NETPFOSAI	Surrogate: d9-N-EtFOSE	42.9 %			25-150						
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	52.8 %			25-150						

Sample Information

Client Sample ID: FB1-1024

York Sample ID: 24J1615-02

York Project (SDG) No.
24J1615

Client Project ID
R2410580

Matrix
Water

Collection Date/Time
October 17, 2024 9:35 am

Date Received
10/23/2024

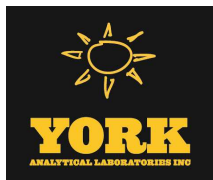
PFAS, EPA 1633 Target List

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	0.829	3.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.618	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.25	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.20	3.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM



Sample Information

Client Sample ID: FB1-1024

York Sample ID: 24J1615-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24J1615

R2410580

Water

October 17, 2024 9:35 am

10/23/2024

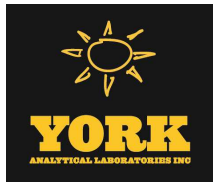
PFAS, EPA 1633 Target List

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)	ND		ng/L	0.741	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.45	3.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.917	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.32	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.99	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.55	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	1.31	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.22	3.53	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.39	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.82	3.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.406	7.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.55	3.53	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.61	3.37	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.33	3.41	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.6	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.62	13.6	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.582	14.1	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.882	6.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:45	AM
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ng/L	3.78	7.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:45	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS -L	ng/L	0.441	7.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:45	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.653	7.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 21:45	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.34	3.32	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.16	13.2	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM



Sample Information

Client Sample ID: FB1-1024

York Sample ID: 24J1615-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24J1615	R2410580	Water	October 17, 2024 9:35 am	10/23/2024

PFAS, EPA 1633 Target List

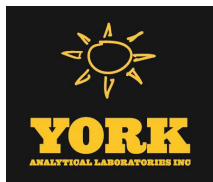
Log-in Notes:

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	5.70	14.1	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
83329-89-9	11CL-PF3OUdS	ND		ng/L	2.43	13.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.24	13.2	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
919005-14-4	ADONA	ND		ng/L	0.935	13.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.64	3.42	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.52	3.39	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 21:45	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS -L	ng/L	3.58	8.82	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	12.9	44.1	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	16.7	44.1	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.04	35.3	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.79	3.53	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM
1691-99-2	* N-EtFOSE	ND		ng/L	7.04	35.3	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.18	3.53	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 21:45	AM

Surrogate Recoveries		Result	Acceptance Range	
M3PFBS	Surrogate: M3PFBS	38.9 %	25-150	
13C5PFHXA	Surrogate: M5PFHxA	50.7 %	25-150	
13C4PFHFA	Surrogate: M4PFHFA	61.8 %	25-150	
13C3PFHXS	Surrogate: M3PFHxS	97.3 %	25-150	
13C8PFOA	Surrogate: Perfluoro-n- [13C8]octanoic acid (M8PFOA)	117 %	25-150	
13C6PFDA	Surrogate: M6PFDA	128 %	25-150	
13C7PFUNA	Surrogate: M7PFUdA	102 %	25-150	
960315-52-0	Surrogate: Perfluoro-n- [1,2-13C2]dodecanoic acid (MPFDoA)	80.9 %	25-150	
13C2PFTEDA	Surrogate: M2PFTeDA	68.1 %	10-150	
13C4PFBA	Surrogate: Perfluoro-n- [13C4]butanoic acid (MPFBA)	0.972 %	PFSu-L	25-150
13C8PFOS	Surrogate: Perfluoro-1- [13C8]octanesulfonic acid (M8PFOS)	101 %	25-150	
2283397-79-3	Surrogate: Perfluoro-n- [13C5]pentanoic acid (M5PFPeA)	7.97 %	PFSu-L	25-150



Sample Information

Client Sample ID: FB1-1024

York Sample ID: 24J1615-02

York Project (SDG) No.

24J1615

Client Project ID

R2410580

Matrix

Water

Collection Date/Time

October 17, 2024 9:35 am

Date Received

10/23/2024

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)	106 %			10-150						
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	83.3 %			25-150						
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	98.2 %			25-150						
M2-6:2FTS	Surrogate: M2-6:2 FTS	69.7 %			25-200						
M2-8:2FTS	Surrogate: M2-8:2 FTS	78.6 %			25-200						
13C9PFNA	Surrogate: M9PFNA	98.6 %			25-150						
M2-4:2FTS	Surrogate: M2-4:2 FTS	53.4 %			25-150						
d-N-MeFOSA	Surrogate: d-N-MeFOSA	71.6 %			25-150						
d-N-EtFOSA	Surrogate: d-N-EtFOSA	58.2 %			25-150						
M3HFPO-DA	Surrogate: M3HFPO-DA	45.6 %			25-150						
D9-NETPFOSAI	Surrogate: d9-N-EtFOSE	50.8 %			25-150						
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	57.0 %			25-150						

Sample Information

Client Sample ID: DUP1-1024

York Sample ID: 24J1615-03

York Project (SDG) No.

24J1615

Client Project ID

R2410580

Matrix

Water

Collection Date/Time

October 17, 2024 9:45 am

Date Received

10/23/2024

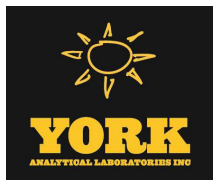
PFAS, EPA 1633 Target List

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)	1.68	J	ng/L	0.842	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	5.21		ng/L	0.627	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.33	PF-CCV -H	ng/L	1.27	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.35	J	ng/L	1.22	3.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
335-67-1	Perfluorooctanoic acid (PFOA)	14.2		ng/L	0.753	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.47	3.33	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.932	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.34	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM



Sample Information

Client Sample ID: DUP1-1024

York Sample ID: 24J1615-03

York Project (SDG) No.
24J1615

Client Project ID
R2410580

Matrix
Water

Collection Date/Time
October 17, 2024 9:45 am

Date Received
10/23/2024

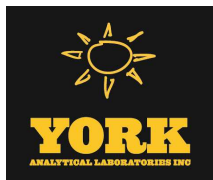
PFAS, EPA 1633 Target List

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	2.02	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.58	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.33	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.24	3.58	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.42	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.85	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.12	J	ng/L	0.412	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.58	3.58	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.63	3.42	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.37	3.46	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	10.8	13.6	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.67	13.8	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.591	14.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.896	6.38	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 22:02	AM
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ng/L	3.83	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 22:02	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS -L	ng/L	0.448	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 22:02	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.663	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	10/29/2024 15:32	10/30/2024 22:02	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.36	3.37	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.21	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	5.79	14.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
83329-89-9	11CL-PF3OUdS	ND		ng/L	2.47	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.25	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
919005-14-4	ADONA	ND		ng/L	0.950	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM



Sample Information

Client Sample ID: DUP1-1024

York Sample ID: 24J1615-03

York Project (SDG) No.

24J1615

Client Project ID

R2410580

Matrix

Water

Collection Date/Time

October 17, 2024 9:45 am

Date Received

10/23/2024

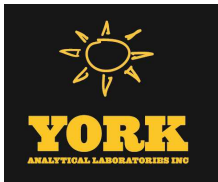
PFAS, EPA 1633 Target List

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	1.67	3.48	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.54	3.44	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	10/29/2024 15:32	10/30/2024 22:02	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS -L	ng/L	3.64	8.96	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.1	44.8	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	17.0	44.8	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.15	35.8	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.83	3.58	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
1691-99-2	* N-EtFOSE	ND		ng/L	7.15	35.8	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.23	3.58	1	EPA 1633 Draft 3 Certifications:	10/29/2024 15:32	10/30/2024 22:02	AM
Surrogate Recoveries		Result	Acceptance Range								
M3PFBS	Surrogate: M3PFBS	90.1 %			25-150						
13C5PFHXA	Surrogate: M5PFHxA	108 %			25-150						
13C4PFHPA	Surrogate: M4PFHPA	91.8 %			25-150						
13C3PFHXS	Surrogate: M3PFHxS	96.1 %			25-150						
13C8PFOA	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	116 %			25-150						
13C6PFDA	Surrogate: M6PFDA	116 %			25-150						
13C7PFUNA	Surrogate: M7PFUdA	94.5 %			25-150						
960315-52-0	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	65.2 %			25-150						
13C2PFTEDA	Surrogate: M2PFTeDA	53.2 %			10-150						
13C4PFBA	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	20.3 %	PFSu-L		25-150						
13C8PFOS	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	100 %			25-150						
2283397-79-3	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	89.7 %			25-150						
13C8FOSA	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	104 %			10-150						
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	83.2 %			25-150						
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	89.9 %			25-150						
M2-6:2FTS	Surrogate: M2-6:2 FTS	76.2 %			25-200						
M2-8:2FTS	Surrogate: M2-8:2 FTS	76.2 %			25-200						
13C9PFNA	Surrogate: M9PFNA	102 %			25-150						
M2-4:2FTS	Surrogate: M2-4:2 FTS	96.5 %			25-150						



Sample Information

<u>Client Sample ID:</u> DUP1-1024		<u>York Sample ID:</u> 24J1615-03		
<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
24J1615	R2410580	Water	October 17, 2024 9:45 am	10/23/2024

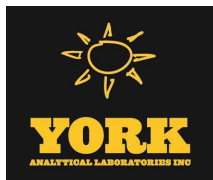
PFAS, EPA 1633 Target List

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
d-N-MeFOSA	Surrogate: d-N-MeFOSA	53.7 %			25-150						
d-N-EtFOSA	Surrogate: d-N-EtFOSA	46.8 %			25-150						
M3HFPO-DA	Surrogate: M3HFPO-DA	112 %			25-150						
D9-NETPFOSA	Surrogate: d9-N-EtFOSE	57.1 %			25-150						
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	73.9 %			25-150						



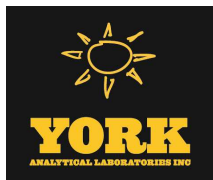
Analytical Batch Summary

Batch ID: BJ42006

Preparation Method: EPA 1633 Prep

Prepared By: DRF

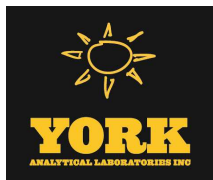
YORK Sample ID	Client Sample ID	Preparation Date
24J1615-01	MW17S-1024	10/29/24
24J1615-02	FB1-1024	10/29/24
24J1615-03	DUP1-1024	10/29/24
BJ42006-BLK1	Blank	10/29/24
BJ42006-BS1	LCS	10/29/24
BJ42006-BS2	LCS	10/29/24
BJ42006-DUP1	Duplicate	10/29/24



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 BJ42006 - EPA 1633 Prep											
Blank (BJ42006-BLK1)						Prepared: 10/29/2024 Analyzed: 10/30/2024					
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)	1.49	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	20.1		"	23.3		86.3	25-150				
Surrogate: M5PFHxA	27.7		"	25.0		111	25-150				
Surrogate: M4PFHpA	19.9		"	25.0		79.5	25-150				
Surrogate: M3PFHxS	22.9		"	23.7		96.6	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	30.0		"	25.0		120	25-150				
Surrogate: M6PFDA	14.6		"	12.5		116	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 BJ42006 - EPA 1633 Prep

Blank (BJ42006-BLK1)

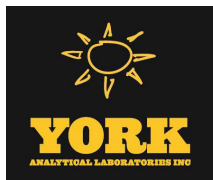
Prepared: 10/29/2024 Analyzed: 10/30/2024

Surrogate: M7PFUdA	12.8		ng/L	12.5		103	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	9.13		"	12.5		73.1	25-150				
Surrogate: M2PFTeDA	8.24		"	12.5		65.9	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.98		"	100		1.98	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	25.8		"	23.9		108	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	30.4		"	50.0		60.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	29.2		"	25.0		117	10-150				
Surrogate: d3-N-MeFOSAA	49.5		"	50.0		99.1	25-150				
Surrogate: d5-N-EtFOSAA	54.7		"	50.0		109	25-150				
Surrogate: M2-6:2 FTS	34.4		"	47.5		72.3	25-200				
Surrogate: M2-8:2 FTS	36.0		"	48.0		75.1	25-200				
Surrogate: M9PFNA	13.1		"	12.5		105	25-150				
Surrogate: M2-4:2 FTS	44.9		"	46.9		95.7	25-150				
Surrogate: d-N-MeFOSA	18.7		"	25.0		74.7	25-150				
Surrogate: d-N-EtFOSA	11.1		"	25.0		44.3	25-150				
Surrogate: M3HFPO-DA	107		"	100		107	25-150				
Surrogate: d9-N-EtFOSE	159		"	250		63.6	25-150				
Surrogate: d7-N-MeFOSE	175		"	250		69.9	25-150				

LCS (BJ42006-BS1)

Prepared: 10/29/2024 Analyzed: 10/30/2024

Perfluorobutanesulfonic acid (PFBS)	29.8	1.77	ng/L	35.4		84.1	50-150				
Perfluorohexanoic acid (PFHxA)	37.5	2.00	"	40.0		93.7	50-150				
Perfluoroheptanoic acid (PFHpA)	46.6	2.00	"	40.0		117	50-150				
Perfluorohexanesulfonic acid (PFHxS)	33.5	1.83	"	36.6		91.6	50-150				
Perfluorooctanoic acid (PFOA)	37.3	2.00	"	40.0		93.2	50-150				
Perfluorooctanesulfonic acid (PFOS)	35.0	1.86	"	37.2		94.1	50-150				
Perfluorononanoic acid (PFNA)	34.5	2.00	"	40.0		86.2	50-150				
Perfluorodecanoic acid (PFDA)	26.2	2.00	"	40.0		65.4	50-150				
Perfluoroundecanoic acid (PFUnA)	45.8	2.00	"	40.0		115	50-150				
Perfluorododecanoic acid (PFDoA)	34.3	2.00	"	40.0		85.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	46.2	2.00	"	40.0		115	50-150				
Perfluorotetradecanoic acid (PFTA)	39.0	2.00	"	40.0		97.5	50-150				
N-MeFOSAA	37.8	2.00	"	40.0		94.6	50-150				
N-EtFOSAA	38.7	2.00	"	40.0		96.7	50-150				
Perfluoropentanoic acid (PFPeA)	76.4	4.00	"	80.0		95.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	28.8	2.00	"	40.0		72.0	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	35.1	1.91	"	38.2		92.0	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	32.6	1.93	"	38.6		84.3	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	129	7.60	"	152		84.8	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	151	7.68	"	154		98.2	50-150				
Perfluoro-n-butanoic acid (PFBA)	104	8.00	"	160		64.8	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	76.6	3.56	"	71.2		108	50-150				
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	85.9	4.00	"	80.0		107	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	8.79	4.00	"	80.0		11.0	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	104	4.00	"	80.0		130	50-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

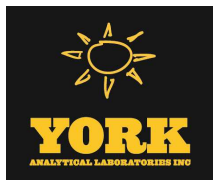
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BJ42006 - EPA 1633 Prep

LCS (BJ42006-BS1)

Prepared: 10/29/2024 Analyzed: 10/30/2024

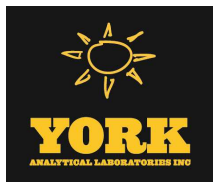
Perfluoro-1-pentanesulfonate (PFPeS)	35.0	1.88	ng/L	37.6		93.1	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	123	7.50	"	150		81.8	50-150				
HFPO-DA (Gen-X)	78.6	8.00	"	80.0		98.3	50-150				
11CL-PF3OUdS	66.5	7.56	"	75.6		87.9	50-150				
9CL-PF3ONS	74.3	7.48	"	74.8		99.3	50-150				
ADONA	70.0	7.56	"	75.6		92.6	50-150				
Perfluorododecanesulfonic acid (PFDoS)	26.9	1.94	"	38.8		69.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	36.0	1.92	"	38.4		93.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	74.7	5.00	"	160		46.7	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	804	25.0	"	800		100	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	965	25.0	"	800		121	50-150				
N-MeFOSE	336	20.0	"	400		84.1	50-150				
N-MeFOSA	44.2	2.00	"	40.0		111	50-150				
N-EtFOSE	382	20.0	"	400		95.4	50-150				
N-EtFOSA	33.8	2.00	"	40.0		84.6	50-150				
Surrogate: M3PFBS	24.3		"	23.3		104	25-150				
Surrogate: M5PFHxA	26.0		"	25.0		104	25-150				
Surrogate: M4PFHpA	21.7		"	25.0		86.7	25-150				
Surrogate: M3PFHxS	27.5		"	23.7		116	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	27.8		"	25.0		111	25-150				
Surrogate: M6PFDA	17.4		"	12.5		139	25-150				
Surrogate: M7PFUdA	13.0		"	12.5		104	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	12.9		"	12.5		104	25-150				
Surrogate: M2PFTeDA	10.3		"	12.5		82.2	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	2.18		"	100		2.18	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	25.3		"	23.9		106	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	28.6		"	50.0		57.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	27.3		"	25.0		109	10-150				
Surrogate: d3-N-MeFOSAA	43.7		"	50.0		87.4	25-150				
Surrogate: d5-N-EtFOSAA	50.2		"	50.0		100	25-150				
Surrogate: M2-6:2 FTS	43.8		"	47.5		92.1	25-200				
Surrogate: M2-8:2 FTS	47.7		"	48.0		99.3	25-200				
Surrogate: M9PFNA	13.1		"	12.5		105	25-150				
Surrogate: M2-4:2 FTS	50.9		"	46.9		108	25-150				
Surrogate: d-N-MeFOSA	16.7		"	25.0		66.7	25-150				
Surrogate: d-N-EtFOSA	13.7		"	25.0		54.9	25-150				
Surrogate: M3HFPO-DA	112		"	100		112	25-150				
Surrogate: d9-N-EtFOSE	160		"	250		64.2	25-150				
Surrogate: d7-N-MeFOSE	182		"	250		72.7	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 BJ42006 - EPA 1633 Prep											
LCS (BJ42006-BS2)						Prepared: 10/29/2024 Analyzed: 10/30/2024					
Perfluorobutanesulfonic acid (PFBS)	5.88	1.77	ng/L	7.08		83.0	50-150				
Perfluorohexanoic acid (PFHxA)	6.66	2.00	"	8.00		83.2	50-150				
Perfluoroheptanoic acid (PFHpA)	9.31	2.00	"	8.00		116	50-150				
Perfluorohexanesulfonic acid (PFHxS)	6.96	1.83	"	7.32		95.1	50-150				
Perfluorooctanoic acid (PFOA)	6.63	2.00	"	8.00		82.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	7.01	1.86	"	7.44		94.3	50-150				
Perfluorononanoic acid (PFNA)	7.17	2.00	"	8.00		89.6	50-150				
Perfluorodecanoic acid (PFDA)	5.85	2.00	"	8.00		73.1	50-150				
Perfluoroundecanoic acid (PFUnA)	5.69	2.00	"	8.00		71.1	50-150				
Perfluorododecanoic acid (PFDoA)	6.87	2.00	"	8.00		85.9	50-150				
Perfluorotridecanoic acid (PFTriDA)	7.90	2.00	"	8.00		98.7	50-150				
Perfluorotetradecanoic acid (PFTA)	6.34	2.00	"	8.00		79.2	50-150				
N-MeFOSAA	7.30	2.00	"	8.00		91.2	50-150				
N-EtFOSAA	7.21	2.00	"	8.00		90.2	50-150				
Perfluoropentanoic acid (PFPeA)	15.1	4.00	"	16.0		94.2	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.54	2.00	"	8.00		69.2	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.78	1.91	"	7.64		88.8	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	6.43	1.93	"	7.72		83.3	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	28.3	7.60	"	30.4		93.1	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	31.2	7.68	"	30.7		102	50-150				
Perfluoro-n-butanoic acid (PFBA)	19.9	8.00	"	32.0		62.2	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	14.2	3.56	"	14.2		100	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	18.4	4.00	"	16.0		115	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.56	4.00	"	16.0		9.76	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	20.8	4.00	"	16.0		130	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	7.16	1.88	"	7.52		95.3	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	23.7	7.50	"	30.0		79.0	50-150				
HFPO-DA (Gen-X)	16.3	8.00	"	16.0		102	50-150				
11CL-PF3OUdS	13.1	7.56	"	15.1		86.7	50-150				
9CL-PF3ONS	15.2	7.48	"	15.0		101	50-150				
ADONA	15.1	7.56	"	15.1		99.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	4.84	1.94	"	7.76		62.4	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	7.14	1.92	"	7.68		93.0	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	14.5	5.00	"	32.0		45.5	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	153	25.0	"	160		95.5	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	173	25.0	"	160		108	50-150				
N-MeFOSE	63.8	20.0	"	80.0		79.8	50-150				
N-MeFOSA	9.34	2.00	"	8.00		117	50-150				
N-EtFOSE	74.3	20.0	"	80.0		92.9	50-150				
N-EtFOSA	5.95	2.00	"	8.00		74.4	50-150				
Surrogate: M3PFBS	25.6		"	23.3		110	25-150				
Surrogate: M5PFHxA	30.8		"	25.0		123	25-150				
Surrogate: M4PFHpA	25.7		"	25.0		103	25-150				
Surrogate: M3PFHxS	27.6		"	23.7		117	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	32.6		"	25.0		131	25-150				
Surrogate: M6PFDA	15.9		"	12.5		127	25-150				
Surrogate: M7PFUdA	16.3		"	12.5		130	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	Limit	Flag

Batch BJ42006 - EPA 1633 Prep

LCS (BJ42006-BS2)

Prepared: 10/29/2024 Analyzed: 10/30/2024

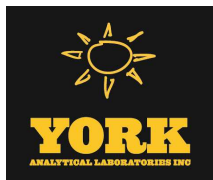
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.8		ng/L	12.5		86.5	25-150				
Surrogate: M2PFTeDA	10.4		"	12.5		83.4	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	1.82		"	100		1.82	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	29.3		"	23.9		122	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	33.6		"	50.0		67.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	33.7		"	25.0		135	10-150				
Surrogate: d3-N-MeFOSAA	54.5		"	50.0		109	25-150				
Surrogate: d5-N-EtFOSAA	63.1		"	50.0		126	25-150				
Surrogate: M2-6:2 FTS	42.7		"	47.5		89.8	25-200				
Surrogate: M2-8:2 FTS	45.5		"	48.0		94.7	25-200				
Surrogate: M9PFNA	13.3		"	12.5		107	25-150				
Surrogate: M2-4:2 FTS	54.8		"	46.9		117	25-150				
Surrogate: d-N-MeFOSA	19.2		"	25.0		76.9	25-150				
Surrogate: d-N-EtFOSA	15.2		"	25.0		60.7	25-150				
Surrogate: M3HFPO-DA	115		"	100		115	25-150				
Surrogate: d9-N-EtFOSE	181		"	250		72.4	25-150				
Surrogate: d7-N-MeFOSE	210		"	250		84.0	25-150				

Duplicate (BJ42006-DUP1)

*Source sample: 24J1615-01 (MW17S-1024)

Prepared: 10/29/2024 Analyzed: 10/30/2024

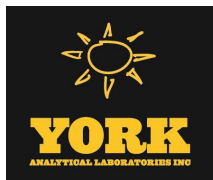
Perfluorobutanesulfonic acid (PFBS)	1.58	3.16	ng/L		1.49		5.51	30
Perfluorohexanoic acid (PFHxA)	4.31	3.57	"		4.71		8.91	30
Perfluoroheptanoic acid (PFHpA)	4.98	3.57	"		5.33		6.74	30
Perfluorohexanesulfonic acid (PFHxS)	1.88	3.27	"		1.55		19.5	30
Perfluorooctanoic acid (PFOA)	14.6	3.57	"		14.6		0.0242	30
Perfluorooctanesulfonic acid (PFOS)	ND	3.32	"		ND			30
Perfluorononanoic acid (PFNA)	ND	3.57	"		0.950			30
Perfluorodecanoic acid (PFDA)	ND	3.57	"		ND			30
Perfluoroundecanoic acid (PFUnA)	ND	3.57	"		ND			30
Perfluorododecanoic acid (PFDoA)	ND	3.57	"		ND			30
Perfluorotridecanoic acid (PFTriDA)	ND	3.57	"		ND			30
Perfluorotetradecanoic acid (PFTA)	ND	3.57	"		ND			30
N-MeFOSAA	ND	3.57	"		ND			30
N-EtFOSAA	ND	3.57	"		ND			30
Perfluoropentanoic acid (PFPeA)	2.92	7.14	"		ND			30
Perfluoro-1-octanesulfonamide (FOSA)	ND	3.57	"		ND			30
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.41	"		ND			30
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.45	"		ND			30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	4.66	13.6	"		2.43			30
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	13.7	"		ND			30
Perfluoro-n-butanoic acid (PFBA)	ND	14.3	"		ND			30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	6.36	"		ND			30
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	ND	7.14	"		ND			30
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	7.14	"		ND			30
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	7.14	"		ND			30
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.36	"		ND			30

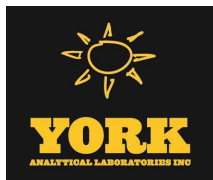


PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ42006 - EPA 1633 Prep											
Duplicate (BJ42006-DUP1)		*Source sample: 24J1615-01 (MW17S-1024)						Prepared: 10/29/2024 Analyzed: 10/30/2024			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	13.4	ng/L		ND					30	
HFPO-DA (Gen-X)	ND	14.3	"		ND					30	
11CL-PF3OUdS	ND	13.5	"		ND					30	
9CL-PF3ONS	ND	13.4	"		ND					30	
ADONA	ND	13.5	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	3.46	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.43	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	8.93	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	44.6	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	44.6	"		ND					30	
N-MeFOSE	ND	35.7	"		ND					30	
N-MeFOSA	ND	3.57	"		ND					30	
N-EtFOSE	9.30	35.7	"		ND					30	
N-EtFOSA	ND	3.57	"		ND					30	
Surrogate: M3PFBS	44.0		"	41.6		106	25-150				
Surrogate: M5PFHxA	55.7		"	44.6		125	25-150				
Surrogate: M4PFHpA	44.6		"	44.6		100	25-150				
Surrogate: M3PFHxS	45.6		"	42.3		108	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	59.7		"	44.6		134	25-150				
Surrogate: M6PFDA	24.7		"	22.3		111	25-150				
Surrogate: M7PFUdA	16.5		"	22.3		74.1	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	11.6		"	22.3		51.8	25-150				
Surrogate: M2PFTeDA	13.8		"	22.3		61.9	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	36.0		"	179		20.1	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	44.1		"	42.8		103	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	90.4		"	89.3		101	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	49.2		"	44.6		110	10-150				
Surrogate: d3-N-MeFOSAA	70.6		"	89.3		79.1	25-150				
Surrogate: d5-N-EtFOSAA	71.8		"	89.3		80.5	25-150				
Surrogate: M2-6:2 FTS	72.7		"	84.9		85.7	25-200				
Surrogate: M2-8:2 FTS	61.0		"	85.7		71.1	25-200				
Surrogate: M9PFNA	21.7		"	22.3		97.3	25-150				
Surrogate: M2-4:2 FTS	94.9		"	83.7		113	25-150				
Surrogate: d-N-MeFOSA	20.1		"	44.6		45.0	25-150				
Surrogate: d-N-EtFOSA	18.4		"	44.6		41.2	25-150				
Surrogate: M3HFPO-DA	218		"	179		122	25-150				
Surrogate: d9-N-EtFOSE	271		"	446		60.8	25-150				
Surrogate: d7-N-MeFOSE	338		"	446		75.7	25-150				





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.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-H	The CCV recovery for this PFAS compound was above 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

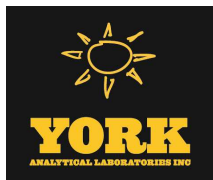
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration 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.

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Christopher Leavy

24051615

Project Number: R2410580
Project Manager: Christopher Leavy
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample			PFAS 1633final
				Date	Time	Lab ID	
R2410580-004	MW17S-1024	1	Water	10/17/24	0935	York RichmondHill	X
R2410580-005	FB1-1024	4	Water	10/17/24	0935	York RichmondHill	X
R2410580-006	DUP1-1024	4	Water	10/17/24	0945	York RichmondHill	X

Page 98 of 98
Folder Comments:
MRL U

Special Instructions/Comments NPDES H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 STANDARD	Report Requirements I. Results Only II. Results + QC Summaries III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data PQL/MDL/J EDD Y Y BASIC-USE QC-CASNO-SUR NYSDCE EQUIS 6.4.0-MRL	Invoice Information PO# 58R2410580 Bill to
	Requested FAX Date: 11/04/24 Requested Report Date: 11/04/24		
	Relinquished By: <u>AL1 10/22/24 1500</u> Received By: <u>Ready 10/22/24 1500</u> Airbill Number: <u>10/23/24 1518 4.35</u>		



November 19, 2024

Service Request No:R2410726

Mr. Jon Brandes
On-Site Geological Services
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: WAL - Semiannual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory October 23, 2024
For your reference, these analyses have been assigned our service request number **R2410726**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Received: 10/23/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Eight water samples were received for analysis at ALS Environmental on 10/23/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270E SIM, 860711: The control limits were exceeded for one or more surrogates in the sample(s). Since the problem may indicate a potential bias in the analytical batch, all associated field samples will be re-extracted and reanalyzed.

Method 8270E SIM, 11/06/2024: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. The associated recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. No further corrective action was appropriate.

Method 8270E SIM, 861398: The control limits were exceeded for one or more surrogates in the sample(s). Since the problem may indicate a potential bias in the analytical batch, all associated field samples were re-extracted and reanalyzed. The surrogates met control limits for the reanalysis. Since the reanalysis confirmed an error with the original results, the data from the reanalysis is reported and flagged.

Metals:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260D, 10/30/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260D, 10/29/2024: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by 

Date 11/18/2024

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: CW3B-1024			Lab ID: R2410726-002			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	0.65	J	0.50	2.5	ug/L	8260D
1,1-Dichloroethene	1.1	J	0.50	2.5	ug/L	8260D
1,4-Dioxane	0.80		0.035	0.040	ug/L	8270E SIM
Barium, Total	35		3	20	ug/L	6010D
Calcium, Total	65800		300	1000	ug/L	6010D
Chloroethane	1.1	J	0.58	2.5	ug/L	8260D
cis-1,2-Dichloroethene	89		0.58	2.5	ug/L	8260D
Magnesium, Total	33500		30	1000	ug/L	6010D
Manganese, Total	24		4	10	ug/L	6010D
Potassium, Total	2400		400	2000	ug/L	6010D
Sodium, Total	21600		300	1000	ug/L	6010D
Trichloroethene	380		0.50	2.5	ug/L	8260D
Vinyl Chloride	1.1	J	0.50	2.5	ug/L	8260D

CLIENT ID: MW5S-1024			Lab ID: R2410726-007			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	0.30	J	0.20	1.0	ug/L	8260D
1,1-Dichloroethene	0.29	J	0.20	1.0	ug/L	8260D
Barium, Total	8	J	3	20	ug/L	6010D
Calcium, Total	12800		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	150		0.23	1.0	ug/L	8260D
Iron, Total	200		70	100	ug/L	6010D
Magnesium, Total	9100		30	1000	ug/L	6010D
Manganese, Total	71		4	10	ug/L	6010D
Potassium, Total	1300	J	400	2000	ug/L	6010D
Sodium, Total	5800		300	1000	ug/L	6010D
trans-1,2-Dichloroethene	0.69	J	0.20	1.0	ug/L	8260D
Trichloroethene	9.7		0.20	1.0	ug/L	8260D
Vinyl Chloride	13		0.20	1.0	ug/L	8260D
Zinc, Total	4	J	3	20	ug/L	6010D

CLIENT ID: CW4B-1024			Lab ID: R2410726-004			

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.33		0.035	0.040	ug/L	8270E SIM
1,4-Dioxane	0.40		0.035	0.040	ug/L	8270E SIM
Barium, Total	26		3	20	ug/L	6010D
Calcium, Total	37800		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	0.48	J	0.23	1.0	ug/L	8260D
Magnesium, Total	15800		30	1000	ug/L	6010D
Manganese, Total	145		4	10	ug/L	6010D
Potassium, Total	1800	J	400	2000	ug/L	6010D

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: CW4B-1024	Lab ID: R2410726-004

Analyte	Results	Flag	MDL	MRL	Units	Method
Sodium, Total	14200		300	1000	ug/L	6010D
Zinc, Total	13	J	3	20	ug/L	6010D

CLIENT ID: CW4A-1024	Lab ID: R2410726-005

Analyte	Results	Flag	MDL	MRL	Units	Method
1,4-Dioxane	0.31		0.035	0.040	ug/L	8270E SIM
1,4-Dioxane	0.35		0.035	0.040	ug/L	8270E SIM
Barium, Total	67		3	20	ug/L	6010D
Calcium, Total	31400		300	1000	ug/L	6010D
Iron, Total	450		70	100	ug/L	6010D
Magnesium, Total	15900		30	1000	ug/L	6010D
Manganese, Total	801		4	10	ug/L	6010D
Potassium, Total	1400	J	400	2000	ug/L	6010D
Sodium, Total	13000		300	1000	ug/L	6010D
Zinc, Total	7	J	3	20	ug/L	6010D

CLIENT ID: EB1-1024	Lab ID: R2410726-001

Analyte	Results	Flag	MDL	MRL	Units	Method
4-Methyl-2-pentanone (MIBK)	0.32	J	0.20	5.0	ug/L	8260D
Acetone	6.8		5.0	5.0	ug/L	8260D
Copper, Total	13	J	4	20	ug/L	6010D

CLIENT ID: CW3A-1024	Lab ID: R2410726-003

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	107		3	20	ug/L	6010D
Calcium, Total	106000		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	4.8		0.23	1.0	ug/L	8260D
Magnesium, Total	1300		30	1000	ug/L	6010D
Potassium, Total	12700		400	2000	ug/L	6010D
Sodium, Total	44500		300	1000	ug/L	6010D
Toluene	0.44	J	0.20	1.0	ug/L	8260D
Trichloroethene	20		0.20	1.0	ug/L	8260D
Zinc, Total	7	J	3	20	ug/L	6010D

CLIENT ID: MW11S-1024	Lab ID: R2410726-008

Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	35		3	20	ug/L	6010D
Cadmium, Total	0.4	J	0.4	5.0	ug/L	6010D
Calcium, Total	67800		300	1000	ug/L	6010D
cis-1,2-Dichloroethene	290		4.6	20	ug/L	8260D
Iron, Total	240		70	100	ug/L	6010D
Magnesium, Total	41900		30	1000	ug/L	6010D

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW11S-1024			Lab ID: R2410726-008			
Analyte	Results	Flag	MDL	MRL	Units	Method
Manganese, Total	825		4	10	ug/L	6010D
Potassium, Total	1700	J	400	2000	ug/L	6010D
Sodium, Total	23500		300	1000	ug/L	6010D
Trichloroethene	1900		4.0	20	ug/L	8260D
Vinyl Chloride	16	J	4.0	20	ug/L	8260D
Zinc, Total	13	J	3	20	ug/L	6010D



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

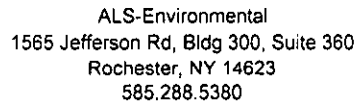
www.alsglobal.com

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling

Service Request:R2410726

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2410726-001	EB1-1024	10/21/2024	0800
R2410726-002	CW3B-1024	10/21/2024	0945
R2410726-003	CW3A-1024	10/21/2024	1125
R2410726-004	CW4B-1024	10/21/2024	1255
R2410726-005	CW4A-1024	10/21/2024	1425
R2410726-007	MW5S-1024	10/22/2024	0930
R2410726-008	MW11S-1024	10/22/2024	1105



Project Manager	Jon Brandes

Telephone No. 585-593-1824	Email: jonb@on-sitehs.com

ups

Special Detection Limit/Reporting	

[illegible]

REMARKS

Date	Time

Lab Work No.



5



R2410726

On-Site Geological Services
WAL - Semiannual Sampling

5



Cooler Receipt and Preservation Check Form

Project/Client

ON-Site

Folder Number

Cooler received on

10/23/24

by:

JE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	N
2	Custody papers properly completed (ink, signed)?	Y	N
3	Did all bottles arrive in good condition (unbroken)?	Y	N
4	Circle: Wet Ice Dry Ice Gel packs present?	Y	N

5a	Did VOA vials have sig* bubbles?	Y	N	NA				
5b	Sig* bubbles: Alk?	Y	N	NA	Sulfide?	Y	N	NA
6	Where did the bottles originate?	ALS/ROC	CLIENT					
7	Soil VOA received as:	Bulk	Encore	5035set	NA			

8. Temperature Readings

Date: 10/23/24

Time: 12:13

ID: IR#12

IR#11

From: Temp Blank

Sample Bottle

Temp (°C)	18						
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:

All samples held in storage location:

SMD

by

JE

on

10/23/24

at

12:13

5035 samples placed in storage location:

by

JE

on

10/23/24

at

12:13

within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/23/22

Time: 14:10

by:

RDA

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	226322	HNO ₃	✓		Label (cover) 10/23					
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.

Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers:

010824-3AX17, 112723-2ER6, 012924-165

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by:

RDA

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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www.alsglobal.com



REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410726

Sample Name: EB1-1024
Lab Code: R2410726-001
Sample Matrix: Water

Date Collected: 10/21/24
Date Received: 10/23/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: CW3B-1024
Lab Code: R2410726-002
Sample Matrix: Water

Date Collected: 10/21/24
Date Received: 10/23/24

Analysis Method
6010D
8260D
8270E SIM

Extracted/Digested By
CDISTEFANO

KPROCOPIO

Analyzed By
NMANSEN
KRUEST
KPROCOPIO

Sample Name: CW3A-1024
Lab Code: R2410726-003
Sample Matrix: Water

Date Collected: 10/21/24
Date Received: 10/23/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

Sample Name: CW4B-1024
Lab Code: R2410726-004
Sample Matrix: Water

Date Collected: 10/21/24
Date Received: 10/23/24

Analysis Method
6010D
8260D
8270E SIM

Extracted/Digested By
CDISTEFANO

KPROCOPIO

Analyzed By
NMANSEN
KRUEST
KPROCOPIO

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410726

Sample Name: CW4B-1024
Lab Code: R2410726-004.R01
Sample Matrix: Water

Date Collected: 10/21/24
Date Received: 10/23/24

Analysis Method
8270E SIM

Extracted/Digested By
KPROCOPIO

Analyzed By
KPROCOPIO

Sample Name: CW4A-1024
Lab Code: R2410726-005
Sample Matrix: Water

Date Collected: 10/21/24
Date Received: 10/23/24

Analysis Method
6010D
8260D
8270E SIM

Extracted/Digested By
CDISTEFANO

KPROCOPIO

Analyzed By
NMANSEN
KRUEST
KPROCOPIO

Sample Name: CW4A-1024
Lab Code: R2410726-005.R01
Sample Matrix: Water

Date Collected: 10/21/24
Date Received: 10/23/24

Analysis Method
8270E SIM

Extracted/Digested By
KPROCOPIO

Analyzed By
KPROCOPIO

Sample Name: MW5S-1024
Lab Code: R2410726-007
Sample Matrix: Water

Date Collected: 10/22/24
Date Received: 10/23/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2410726

Sample Name: MW11S-1024
Lab Code: R2410726-008
Sample Matrix: Water

Date Collected: 10/22/24
Date Received: 10/23/24

Analysis Method
6010D
8260D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN
KRUEST



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

ALS Environmental—Rochester Laboratory

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 08:00
Date Received: 10/23/24 10:50

Sample Name: EB1-1024
Lab Code: R2410726-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	6.8	5.0	5.0	1	10/29/24 06:55	
Benzene	1.0 U	1.0	0.20	1	10/29/24 06:55	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
Bromoform	1.0 U	1.0	0.25	1	10/29/24 06:55	
Bromomethane	1.0 U	1.0	0.70	1	10/29/24 06:55	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/29/24 06:55	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/29/24 06:55	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/29/24 06:55	
Chlorobenzene	1.0 U	1.0	0.20	1	10/29/24 06:55	
Chloroethane	1.0 U	1.0	0.23	1	10/29/24 06:55	
Chloroform	1.0 U	1.0	0.51	1	10/29/24 06:55	
Chloromethane	1.0 U	1.0	0.80	1	10/29/24 06:55	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/29/24 06:55	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/29/24 06:55	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/29/24 06:55	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/29/24 06:55	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/29/24 06:55	
Ethylbenzene	1.0 U	1.0	0.20	1	10/29/24 06:55	
2-Hexanone	5.0 U	5.0	0.20	1	10/29/24 06:55	
Methylene Chloride	1.0 U	1.0	0.65	1	10/29/24 06:55	
4-Methyl-2-pentanone (MIBK)	0.32 J	5.0	0.20	1	10/29/24 06:55	
Styrene	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/29/24 06:55	
Toluene	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/29/24 06:55	
Trichloroethene	1.0 U	1.0	0.20	1	10/29/24 06:55	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/29/24 06:55	
o-Xylene	1.0 U	1.0	0.20	1	10/29/24 06:55	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/29/24 06:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 08:00
Date Received: 10/23/24 10:50

Sample Name: EB1-1024
Lab Code: R2410726-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/29/24 06:55	
Toluene-d8	103	87 - 121	10/29/24 06:55	
Dibromofluoromethane	98	80 - 116	10/29/24 06:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 09:45
Date Received: 10/23/24 10:50

Sample Name: CW3B-1024
Lab Code: R2410726-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	13 U	13	13	2.5	10/29/24 07:18	
Benzene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
Bromodichloromethane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
Bromoform	2.5 U	2.5	0.63	2.5	10/29/24 07:18	
Bromomethane	2.5 U	2.5	1.8	2.5	10/29/24 07:18	
2-Butanone (MEK)	13 U	13	2.0	2.5	10/29/24 07:18	
Carbon Disulfide	2.5 U	2.5	1.1	2.5	10/29/24 07:18	
Carbon Tetrachloride	2.5 U	2.5	0.85	2.5	10/29/24 07:18	
Chlorobenzene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
Chloroethane	1.1 J	2.5	0.58	2.5	10/29/24 07:18	
Chloroform	2.5 U	2.5	1.3	2.5	10/29/24 07:18	
Chloromethane	2.5 U	2.5	2.0	2.5	10/29/24 07:18	
Dibromochloromethane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
1,2-Dibromoethane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
1,1-Dichloroethane	0.65 J	2.5	0.50	2.5	10/29/24 07:18	
1,2-Dichloroethane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
1,1-Dichloroethene	1.1 J	2.5	0.50	2.5	10/29/24 07:18	
cis-1,2-Dichloroethene	89	2.5	0.58	2.5	10/29/24 07:18	
trans-1,2-Dichloroethene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
1,2-Dichloropropane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
cis-1,3-Dichloropropene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
trans-1,3-Dichloropropene	2.5 U	2.5	0.58	2.5	10/29/24 07:18	
Ethylbenzene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
2-Hexanone	13 U	13	0.50	2.5	10/29/24 07:18	
Methylene Chloride	2.5 U	2.5	1.7	2.5	10/29/24 07:18	
4-Methyl-2-pentanone (MIBK)	13 U	13	0.50	2.5	10/29/24 07:18	
Styrene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
Tetrachloroethene	2.5 U	2.5	0.53	2.5	10/29/24 07:18	
Toluene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
1,1,1-Trichloroethane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
1,1,2-Trichloroethane	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
Trichloroethene	380	2.5	0.50	2.5	10/29/24 07:18	
Vinyl Chloride	1.1 J	2.5	0.50	2.5	10/29/24 07:18	
o-Xylene	2.5 U	2.5	0.50	2.5	10/29/24 07:18	
m,p-Xylenes	5.0 U	5.0	1.4	2.5	10/29/24 07:18	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 09:45
Date Received: 10/23/24 10:50

Sample Name: CW3B-1024
Lab Code: R2410726-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/29/24 07:18	
Toluene-d8	104	87 - 121	10/29/24 07:18	
Dibromofluoromethane	99	80 - 116	10/29/24 07:18	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 11:25
Date Received: 10/23/24 10:50

Sample Name: CW3A-1024
Lab Code: R2410726-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/30/24 13:35	
Benzene	1.0 U	1.0	0.20	1	10/30/24 13:35	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
Bromoform	1.0 U	1.0	0.25	1	10/30/24 13:35	
Bromomethane	1.0 U	1.0	0.70	1	10/30/24 13:35	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/30/24 13:35	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/30/24 13:35	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/30/24 13:35	
Chlorobenzene	1.0 U	1.0	0.20	1	10/30/24 13:35	
Chloroethane	1.0 U	1.0	0.23	1	10/30/24 13:35	
Chloroform	1.0 U	1.0	0.51	1	10/30/24 13:35	
Chloromethane	1.0 U	1.0	0.80	1	10/30/24 13:35	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 13:35	
cis-1,2-Dichloroethene	4.8	1.0	0.23	1	10/30/24 13:35	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 13:35	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/30/24 13:35	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/30/24 13:35	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/30/24 13:35	
Ethylbenzene	1.0 U	1.0	0.20	1	10/30/24 13:35	
2-Hexanone	5.0 U	5.0	0.20	1	10/30/24 13:35	
Methylene Chloride	1.0 U	1.0	0.65	1	10/30/24 13:35	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/30/24 13:35	
Styrene	1.0 U	1.0	0.20	1	10/30/24 13:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/30/24 13:35	
Toluene	0.44 J	1.0	0.20	1	10/30/24 13:35	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:35	
Trichloroethene	20	1.0	0.20	1	10/30/24 13:35	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/30/24 13:35	
o-Xylene	1.0 U	1.0	0.20	1	10/30/24 13:35	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/30/24 13:35	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 11:25
Date Received: 10/23/24 10:50

Sample Name: CW3A-1024
Lab Code: R2410726-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/30/24 13:35	
Toluene-d8	104	87 - 121	10/30/24 13:35	
Dibromofluoromethane	96	80 - 116	10/30/24 13:35	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 12:55
Date Received: 10/23/24 10:50

Sample Name: CW4B-1024
Lab Code: R2410726-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/30/24 13:58	
Benzene	1.0 U	1.0	0.20	1	10/30/24 13:58	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
Bromoform	1.0 U	1.0	0.25	1	10/30/24 13:58	
Bromomethane	1.0 U	1.0	0.70	1	10/30/24 13:58	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/30/24 13:58	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/30/24 13:58	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/30/24 13:58	
Chlorobenzene	1.0 U	1.0	0.20	1	10/30/24 13:58	
Chloroethane	1.0 U	1.0	0.23	1	10/30/24 13:58	
Chloroform	1.0 U	1.0	0.51	1	10/30/24 13:58	
Chloromethane	1.0 U	1.0	0.80	1	10/30/24 13:58	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 13:58	
cis-1,2-Dichloroethene	0.48 J	1.0	0.23	1	10/30/24 13:58	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/30/24 13:58	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/30/24 13:58	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/30/24 13:58	
Ethylbenzene	1.0 U	1.0	0.20	1	10/30/24 13:58	
2-Hexanone	5.0 U	5.0	0.20	1	10/30/24 13:58	
Methylene Chloride	1.0 U	1.0	0.65	1	10/30/24 13:58	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/30/24 13:58	
Styrene	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/30/24 13:58	
Toluene	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 13:58	
Trichloroethene	1.0 U	1.0	0.20	1	10/30/24 13:58	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/30/24 13:58	
o-Xylene	1.0 U	1.0	0.20	1	10/30/24 13:58	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/30/24 13:58	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 12:55
Date Received: 10/23/24 10:50

Sample Name: CW4B-1024
Lab Code: R2410726-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	10/30/24 13:58	
Toluene-d8	105	87 - 121	10/30/24 13:58	
Dibromofluoromethane	99	80 - 116	10/30/24 13:58	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 14:25
Date Received: 10/23/24 10:50

Sample Name: CW4A-1024
Lab Code: R2410726-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/30/24 14:21	
Benzene	1.0 U	1.0	0.20	1	10/30/24 14:21	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
Bromoform	1.0 U	1.0	0.25	1	10/30/24 14:21	
Bromomethane	1.0 U	1.0	0.70	1	10/30/24 14:21	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/30/24 14:21	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/30/24 14:21	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/30/24 14:21	
Chlorobenzene	1.0 U	1.0	0.20	1	10/30/24 14:21	
Chloroethane	1.0 U	1.0	0.23	1	10/30/24 14:21	
Chloroform	1.0 U	1.0	0.51	1	10/30/24 14:21	
Chloromethane	1.0 U	1.0	0.80	1	10/30/24 14:21	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 14:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/30/24 14:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/30/24 14:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/30/24 14:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/30/24 14:21	
Ethylbenzene	1.0 U	1.0	0.20	1	10/30/24 14:21	
2-Hexanone	5.0 U	5.0	0.20	1	10/30/24 14:21	
Methylene Chloride	1.0 U	1.0	0.65	1	10/30/24 14:21	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/30/24 14:21	
Styrene	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/30/24 14:21	
Toluene	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 14:21	
Trichloroethene	1.0 U	1.0	0.20	1	10/30/24 14:21	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/30/24 14:21	
o-Xylene	1.0 U	1.0	0.20	1	10/30/24 14:21	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/30/24 14:21	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 14:25
Date Received: 10/23/24 10:50

Sample Name: CW4A-1024
Lab Code: R2410726-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	10/30/24 14:21	
Toluene-d8	99	87 - 121	10/30/24 14:21	
Dibromofluoromethane	92	80 - 116	10/30/24 14:21	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/22/24 09:30
Date Received: 10/23/24 10:50

Sample Name: MW5S-1024
Lab Code: R2410726-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/30/24 14:44	
Benzene	1.0 U	1.0	0.20	1	10/30/24 14:44	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/30/24 14:44	
Bromoform	1.0 U	1.0	0.25	1	10/30/24 14:44	
Bromomethane	1.0 U	1.0	0.70	1	10/30/24 14:44	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/30/24 14:44	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/30/24 14:44	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/30/24 14:44	
Chlorobenzene	1.0 U	1.0	0.20	1	10/30/24 14:44	
Chloroethane	1.0 U	1.0	0.23	1	10/30/24 14:44	
Chloroform	1.0 U	1.0	0.51	1	10/30/24 14:44	
Chloromethane	1.0 U	1.0	0.80	1	10/30/24 14:44	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/30/24 14:44	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/30/24 14:44	
1,1-Dichloroethane	0.30 J	1.0	0.20	1	10/30/24 14:44	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 14:44	
1,1-Dichloroethene	0.29 J	1.0	0.20	1	10/30/24 14:44	
cis-1,2-Dichloroethene	150	1.0	0.23	1	10/30/24 14:44	
trans-1,2-Dichloroethene	0.69 J	1.0	0.20	1	10/30/24 14:44	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/30/24 14:44	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/30/24 14:44	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/30/24 14:44	
Ethylbenzene	1.0 U	1.0	0.20	1	10/30/24 14:44	
2-Hexanone	5.0 U	5.0	0.20	1	10/30/24 14:44	
Methylene Chloride	1.0 U	1.0	0.65	1	10/30/24 14:44	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/30/24 14:44	
Styrene	1.0 U	1.0	0.20	1	10/30/24 14:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/30/24 14:44	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/30/24 14:44	
Toluene	1.0 U	1.0	0.20	1	10/30/24 14:44	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 14:44	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 14:44	
Trichloroethene	9.7	1.0	0.20	1	10/30/24 14:44	
Vinyl Chloride	13	1.0	0.20	1	10/30/24 14:44	
o-Xylene	1.0 U	1.0	0.20	1	10/30/24 14:44	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/30/24 14:44	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/22/24 09:30
Date Received: 10/23/24 10:50

Sample Name: MW5S-1024
Lab Code: R2410726-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/30/24 14:44	
Toluene-d8	105	87 - 121	10/30/24 14:44	
Dibromofluoromethane	100	80 - 116	10/30/24 14:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/22/24 11:05
Date Received: 10/23/24 10:50

Sample Name: MW11S-1024
Lab Code: R2410726-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	100 U	100	100	20	10/30/24 15:07	
Benzene	20 U	20	4.0	20	10/30/24 15:07	
Bromodichloromethane	20 U	20	4.0	20	10/30/24 15:07	
Bromoform	20 U	20	5.0	20	10/30/24 15:07	
Bromomethane	20 U	20	14	20	10/30/24 15:07	
2-Butanone (MEK)	100 U	100	16	20	10/30/24 15:07	
Carbon Disulfide	20 U	20	8.4	20	10/30/24 15:07	
Carbon Tetrachloride	20 U	20	6.8	20	10/30/24 15:07	
Chlorobenzene	20 U	20	4.0	20	10/30/24 15:07	
Chloroethane	20 U	20	4.6	20	10/30/24 15:07	
Chloroform	20 U	20	11	20	10/30/24 15:07	
Chloromethane	20 U	20	16	20	10/30/24 15:07	
Dibromochloromethane	20 U	20	4.0	20	10/30/24 15:07	
1,1-Dichloroethane	20 U	20	4.0	20	10/30/24 15:07	
1,2-Dibromoethane	20 U	20	4.0	20	10/30/24 15:07	
1,2-Dichloroethane	20 U	20	4.0	20	10/30/24 15:07	
1,1-Dichloroethene	20 U	20	4.0	20	10/30/24 15:07	
cis-1,2-Dichloroethene	290	20	4.6	20	10/30/24 15:07	
trans-1,2-Dichloroethene	20 U	20	4.0	20	10/30/24 15:07	
1,2-Dichloropropane	20 U	20	4.0	20	10/30/24 15:07	
cis-1,3-Dichloropropene	20 U	20	4.0	20	10/30/24 15:07	
trans-1,3-Dichloropropene	20 U	20	4.6	20	10/30/24 15:07	
Ethylbenzene	20 U	20	4.0	20	10/30/24 15:07	
2-Hexanone	100 U	100	4.0	20	10/30/24 15:07	
Methylene Chloride	20 U	20	13	20	10/30/24 15:07	
4-Methyl-2-pentanone (MIBK)	100 U	100	4.0	20	10/30/24 15:07	
Styrene	20 U	20	4.0	20	10/30/24 15:07	
1,1,2,2-Tetrachloroethane	20 U	20	4.0	20	10/30/24 15:07	
Tetrachloroethene	20 U	20	4.2	20	10/30/24 15:07	
Toluene	20 U	20	4.0	20	10/30/24 15:07	
1,1,1-Trichloroethane	20 U	20	4.0	20	10/30/24 15:07	
1,1,2-Trichloroethane	20 U	20	4.0	20	10/30/24 15:07	
Trichloroethene	1900	20	4.0	20	10/30/24 15:07	
Vinyl Chloride	16 J	20	4.0	20	10/30/24 15:07	
o-Xylene	20 U	20	4.0	20	10/30/24 15:07	
m,p-Xylenes	40 U	40	11	20	10/30/24 15:07	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/22/24 11:05
Date Received: 10/23/24 10:50

Sample Name: MW11S-1024
Lab Code: R2410726-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	10/30/24 15:07	
Toluene-d8	105	87 - 121	10/30/24 15:07	
Dibromofluoromethane	99	80 - 116	10/30/24 15:07	



Semivolatile Organic Compounds by GC/MS

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 09:45
Date Received: 10/23/24 10:50

Sample Name: CW3B-1024
Lab Code: R2410726-002

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.80	0.040	0.035	1	11/06/24 20:56	10/28/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	68	64 - 124	11/06/24 20:56	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 12:55
Date Received: 10/23/24 10:50

Sample Name: CW4B-1024
Lab Code: R2410726-004

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.40	0.040	0.035	1	11/13/24 03:31	11/9/24	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	86	64 - 124	11/13/24 03:31	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 12:55
Date Received: 10/23/24 10:50

Sample Name: CW4B-1024
Lab Code: R2410726-004

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.33	0.040	0.035	1	11/06/24 21:47	10/28/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	63 *	64 - 124	11/06/24 21:47	*

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 14:25
Date Received: 10/23/24 10:50

Sample Name: CW4A-1024
Lab Code: R2410726-005

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.35	0.040	0.035	1	11/13/24 03:49	11/9/24	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	86	64 - 124	11/13/24 03:49	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 14:25
Date Received: 10/23/24 10:50

Sample Name: CW4A-1024
Lab Code: R2410726-005

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.31	0.040	0.035	1	11/06/24 22:04	10/28/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	63 *	64 - 124	11/06/24 22:04	*



Metals

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 08:00
Date Received: 10/23/24 10:50

Sample Name: EB1-1024
Lab Code: R2410726-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 21:00	10/30/24	
Barium, Total	6010D	20 U	ug/L	20	3	1	10/31/24 21:00	10/30/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/31/24 21:00	10/30/24	
Calcium, Total	6010D	1000 U	ug/L	1000	300	1	10/31/24 21:00	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 21:00	10/30/24	
Copper, Total	6010D	13 J	ug/L	20	4	1	10/31/24 21:00	10/30/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/31/24 21:00	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 21:00	10/30/24	
Magnesium, Total	6010D	1000 U	ug/L	1000	30	1	10/31/24 21:00	10/30/24	
Manganese, Total	6010D	10 U	ug/L	10	4	1	10/31/24 21:00	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 21:00	10/30/24	
Potassium, Total	6010D	2000 U	ug/L	2000	400	1	10/31/24 21:00	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:18	10/30/24	
Sodium, Total	6010D	1000 U	ug/L	1000	300	1	10/31/24 21:00	10/30/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	10/31/24 21:00	10/30/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 09:45
Date Received: 10/23/24 10:50

Sample Name: CW3B-1024
Lab Code: R2410726-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 21:03	10/30/24	
Barium, Total	6010D	35	ug/L	20	3	1	10/31/24 21:03	10/30/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/31/24 21:03	10/30/24	
Calcium, Total	6010D	65800	ug/L	1000	300	1	10/31/24 21:03	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 21:03	10/30/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/31/24 21:03	10/30/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/31/24 21:03	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 21:03	10/30/24	
Magnesium, Total	6010D	33500	ug/L	1000	30	1	10/31/24 21:03	10/30/24	
Manganese, Total	6010D	24	ug/L	10	4	1	10/31/24 21:03	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 21:03	10/30/24	
Potassium, Total	6010D	2400	ug/L	2000	400	1	10/31/24 21:03	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:21	10/30/24	
Sodium, Total	6010D	21600	ug/L	1000	300	1	10/31/24 21:03	10/30/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	10/31/24 21:03	10/30/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 11:25
Date Received: 10/23/24 10:50

Sample Name: CW3A-1024
Lab Code: R2410726-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 21:19	10/30/24	
Barium, Total	6010D	107	ug/L	20	3	1	10/31/24 21:19	10/30/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/31/24 21:19	10/30/24	
Calcium, Total	6010D	106000	ug/L	1000	300	1	10/31/24 21:19	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 21:19	10/30/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/31/24 21:19	10/30/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/31/24 21:19	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 21:19	10/30/24	
Magnesium, Total	6010D	1300	ug/L	1000	30	1	10/31/24 21:19	10/30/24	
Manganese, Total	6010D	10 U	ug/L	10	4	1	10/31/24 21:19	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 21:19	10/30/24	
Potassium, Total	6010D	12700	ug/L	2000	400	1	10/31/24 21:19	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:37	10/30/24	
Sodium, Total	6010D	44500	ug/L	1000	300	1	10/31/24 21:19	10/30/24	
Zinc, Total	6010D	7 J	ug/L	20	3	1	10/31/24 21:19	10/30/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 12:55
Date Received: 10/23/24 10:50

Sample Name: CW4B-1024
Lab Code: R2410726-004

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 21:22	10/30/24	
Barium, Total	6010D	26	ug/L	20	3	1	10/31/24 21:22	10/30/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/31/24 21:22	10/30/24	
Calcium, Total	6010D	37800	ug/L	1000	300	1	10/31/24 21:22	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 21:22	10/30/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/31/24 21:22	10/30/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/31/24 21:22	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 21:22	10/30/24	
Magnesium, Total	6010D	15800	ug/L	1000	30	1	10/31/24 21:22	10/30/24	
Manganese, Total	6010D	145	ug/L	10	4	1	10/31/24 21:22	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 21:22	10/30/24	
Potassium, Total	6010D	1800 J	ug/L	2000	400	1	10/31/24 21:22	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:41	10/30/24	
Sodium, Total	6010D	14200	ug/L	1000	300	1	10/31/24 21:22	10/30/24	
Zinc, Total	6010D	13 J	ug/L	20	3	1	10/31/24 21:22	10/30/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24 14:25
Date Received: 10/23/24 10:50

Sample Name: CW4A-1024
Lab Code: R2410726-005

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 21:32	10/30/24	
Barium, Total	6010D	67	ug/L	20	3	1	10/31/24 21:32	10/30/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/31/24 21:32	10/30/24	
Calcium, Total	6010D	31400	ug/L	1000	300	1	10/31/24 21:32	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 21:32	10/30/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/31/24 21:32	10/30/24	
Iron, Total	6010D	450	ug/L	100	70	1	10/31/24 21:32	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 21:32	10/30/24	
Magnesium, Total	6010D	15900	ug/L	1000	30	1	10/31/24 21:32	10/30/24	
Manganese, Total	6010D	801	ug/L	10	4	1	10/31/24 21:32	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 21:32	10/30/24	
Potassium, Total	6010D	1400 J	ug/L	2000	400	1	10/31/24 21:32	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:50	10/30/24	
Sodium, Total	6010D	13000	ug/L	1000	300	1	10/31/24 21:32	10/30/24	
Zinc, Total	6010D	7 J	ug/L	20	3	1	10/31/24 21:32	10/30/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/22/24 09:30
Date Received: 10/23/24 10:50

Sample Name: MW5S-1024
Lab Code: R2410726-007

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 21:35	10/30/24	
Barium, Total	6010D	8 J	ug/L	20	3	1	10/31/24 21:35	10/30/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/31/24 21:35	10/30/24	
Calcium, Total	6010D	12800	ug/L	1000	300	1	10/31/24 21:35	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 21:35	10/30/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/31/24 21:35	10/30/24	
Iron, Total	6010D	200	ug/L	100	70	1	10/31/24 21:35	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 21:35	10/30/24	
Magnesium, Total	6010D	9100	ug/L	1000	30	1	10/31/24 21:35	10/30/24	
Manganese, Total	6010D	71	ug/L	10	4	1	10/31/24 21:35	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 21:35	10/30/24	
Potassium, Total	6010D	1300 J	ug/L	2000	400	1	10/31/24 21:35	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:54	10/30/24	
Sodium, Total	6010D	5800	ug/L	1000	300	1	10/31/24 21:35	10/30/24	
Zinc, Total	6010D	4 J	ug/L	20	3	1	10/31/24 21:35	10/30/24	

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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/22/24 11:05
Date Received: 10/23/24 10:50

Sample Name: MW11S-1024
Lab Code: R2410726-008

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 21:38	10/30/24	
Barium, Total	6010D	35	ug/L	20	3	1	10/31/24 21:38	10/30/24	
Cadmium, Total	6010D	0.4 J	ug/L	5.0	0.4	1	10/31/24 21:38	10/30/24	
Calcium, Total	6010D	67800	ug/L	1000	300	1	10/31/24 21:38	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 21:38	10/30/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/31/24 21:38	10/30/24	
Iron, Total	6010D	240	ug/L	100	70	1	10/31/24 21:38	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 21:38	10/30/24	
Magnesium, Total	6010D	41900	ug/L	1000	30	1	10/31/24 21:38	10/30/24	
Manganese, Total	6010D	825	ug/L	10	4	1	10/31/24 21:38	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 21:38	10/30/24	
Potassium, Total	6010D	1700 J	ug/L	2000	400	1	10/31/24 21:38	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:57	10/30/24	
Sodium, Total	6010D	23500	ug/L	1000	300	1	10/31/24 21:38	10/30/24	
Zinc, Total	6010D	13 J	ug/L	20	3	1	10/31/24 21:38	10/30/24	



QC Summary Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	80 - 116	87 - 121
EB1-1024	R2410726-001	100	98	103
CW3B-1024	R2410726-002	103	99	104
CW3A-1024	R2410726-003	104	96	104
CW4B-1024	R2410726-004	98	99	105
CW4A-1024	R2410726-005	99	92	99
MW5S-1024	R2410726-007	102	100	105
MW11S-1024	R2410726-008	105	99	105
Lab Control Sample	RQ2413808-02	110	101	103
Method Blank	RQ2413808-03	100	97	101
CW3B-1024 MS	RQ2413808-04	108	105	106
CW3B-1024 DMS	RQ2413808-05	117	109	110
Lab Control Sample	RQ2413949-02	110	103	105
Method Blank	RQ2413949-03	100	98	104

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24
Date Received: 10/23/24
Date Analyzed: 10/29/24
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: CW3B-1024
Lab Code: R2410726-002
Analysis Method: 8260D
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2413808-04				Duplicate Matrix Spike RQ2413808-05				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Acetone	13 U	115	125	92	111	125	89	35-183	4	30
Benzene	2.5 U	132	125	106	132	125	105	76-129	<1	30
Bromodichloromethane	2.5 U	131	125	105	132	125	106	78-133	<1	30
Bromoform	2.5 U	136	125	109	137	125	110	58-133	1	30
Bromomethane	2.5 U	103	125	82	102	125	81	10-184	1	30
2-Butanone (MEK)	13 U	130	125	104	124	125	100	61-137	5	30
Carbon Disulfide	2.5 U	113	125	90	114	125	91	59-140	<1	30
Carbon Tetrachloride	2.5 U	124	125	99	123	125	98	65-135	1	30
Chlorobenzene	2.5 U	123	125	98	121	125	97	76-125	1	30
Chloroethane	1.1 J	129	125	102	122	125	97	48-146	5	30
Chloroform	2.5 U	139	125	111	137	125	109	75-130	2	30
Chloromethane	2.5 U	142	125	113	137	125	109	55-160	4	30
Dibromochloromethane	2.5 U	129	125	103	130	125	104	72-128	1	30
1,1-Dichloroethane	0.65 J	137	125	109	135	125	107	74-132	1	30
1,2-Dibromoethane	2.5 U	122	125	97	122	125	97	67-127	<1	30
1,2-Dichloroethane	2.5 U	136	125	109	133	125	107	68-130	2	30
1,1-Dichloroethene	1.1 J	130	125	103	129	125	102	71-118	1	30
cis-1,2-Dichloroethene	89	227	125	111	220	125	105	77-127	3	30
trans-1,2-Dichloroethene	2.5 U	122	125	98	120	125	96	73-118	2	30
1,2-Dichloropropane	2.5 U	135	125	108	131	125	105	79-124	2	30
cis-1,3-Dichloropropene	2.5 U	132	125	106	132	125	106	52-134	<1	30
trans-1,3-Dichloropropene	2.5 U	131	125	105	131	125	104	71-133	<1	30
Ethylbenzene	2.5 U	128	125	102	125	125	100	72-134	2	30
2-Hexanone	13 U	128	125	103	127	125	101	56-132	1	30
Methylene Chloride	2.5 U	134	125	108	135	125	108	73-122	<1	30
4-Methyl-2-pentanone (MIBK)	13 U	140	125	112	136	125	109	60-141	2	30
Styrene	2.5 U	137	125	109	136	125	109	74-136	<1	30
1,1,2,2-Tetrachloroethane	2.5 U	115	125	92	115	125	92	72-122	<1	30
Tetrachloroethene	2.5 U	127	125	101	124	125	100	72-125	2	30
Toluene	2.5 U	132	125	106	131	125	105	79-119	1	30
1,1,1-Trichloroethane	2.5 U	133	125	107	131	125	105	74-127	2	30
1,1,2-Trichloroethane	2.5 U	132	125	105	129	125	103	82-121	2	30
Trichloroethene	380	525 E	125	113	503 E	125	95	74-122	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24
Date Received: 10/23/24
Date Analyzed: 10/29/24
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: CW3B-1024
Lab Code: R2410726-002
Analysis Method: 8260D
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ2413808-04				Duplicate Matrix Spike RQ2413808-05					
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Vinyl Chloride	1.1 J	148	125	117	146	125	116	74-159	1	30
o-Xylene	2.5 U	126	125	101	124	125	99	79-123	2	30
m,p-Xylenes	5.0 U	256	250	102	256	250	103	80-126	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413808-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/28/24 23:15	
Benzene	1.0 U	1.0	0.20	1	10/28/24 23:15	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
Bromoform	1.0 U	1.0	0.25	1	10/28/24 23:15	
Bromomethane	1.0 U	1.0	0.70	1	10/28/24 23:15	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/28/24 23:15	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/28/24 23:15	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/28/24 23:15	
Chlorobenzene	1.0 U	1.0	0.20	1	10/28/24 23:15	
Chloroethane	1.0 U	1.0	0.23	1	10/28/24 23:15	
Chloroform	1.0 U	1.0	0.51	1	10/28/24 23:15	
Chloromethane	1.0 U	1.0	0.80	1	10/28/24 23:15	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 23:15	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/28/24 23:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/28/24 23:15	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/28/24 23:15	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/28/24 23:15	
Ethylbenzene	1.0 U	1.0	0.20	1	10/28/24 23:15	
2-Hexanone	5.0 U	5.0	0.20	1	10/28/24 23:15	
Methylene Chloride	1.0 U	1.0	0.65	1	10/28/24 23:15	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/28/24 23:15	
Styrene	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/28/24 23:15	
Toluene	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/28/24 23:15	
Trichloroethene	1.0 U	1.0	0.20	1	10/28/24 23:15	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/28/24 23:15	
o-Xylene	1.0 U	1.0	0.20	1	10/28/24 23:15	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/28/24 23:15	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413808-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/28/24 23:15	
Toluene-d8	101	87 - 121	10/28/24 23:15	
Dibromofluoromethane	97	80 - 116	10/28/24 23:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413949-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Acetone	5.0 U	5.0	5.0	1	10/30/24 12:03	
Benzene	1.0 U	1.0	0.20	1	10/30/24 12:03	
Bromodichloromethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
Bromoform	1.0 U	1.0	0.25	1	10/30/24 12:03	
Bromomethane	1.0 U	1.0	0.70	1	10/30/24 12:03	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	10/30/24 12:03	
Carbon Disulfide	1.0 U	1.0	0.42	1	10/30/24 12:03	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	10/30/24 12:03	
Chlorobenzene	1.0 U	1.0	0.20	1	10/30/24 12:03	
Chloroethane	1.0 U	1.0	0.23	1	10/30/24 12:03	
Chloroform	1.0 U	1.0	0.51	1	10/30/24 12:03	
Chloromethane	1.0 U	1.0	0.80	1	10/30/24 12:03	
Dibromochloromethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,1-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 12:03	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	10/30/24 12:03	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	10/30/24 12:03	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	10/30/24 12:03	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	10/30/24 12:03	
Ethylbenzene	1.0 U	1.0	0.20	1	10/30/24 12:03	
2-Hexanone	5.0 U	5.0	0.20	1	10/30/24 12:03	
Methylene Chloride	1.0 U	1.0	0.65	1	10/30/24 12:03	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.20	1	10/30/24 12:03	
Styrene	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
Tetrachloroethene	1.0 U	1.0	0.21	1	10/30/24 12:03	
Toluene	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,1,1-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	10/30/24 12:03	
Trichloroethene	1.0 U	1.0	0.20	1	10/30/24 12:03	
Vinyl Chloride	1.0 U	1.0	0.20	1	10/30/24 12:03	
o-Xylene	1.0 U	1.0	0.20	1	10/30/24 12:03	
m,p-Xylenes	2.0 U	2.0	0.53	1	10/30/24 12:03	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413949-03

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260D
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	10/30/24 12:03	
Toluene-d8	104	87 - 121	10/30/24 12:03	
Dibromofluoromethane	98	80 - 116	10/30/24 12:03	

ALS Group USA, Corp.
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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Analyzed: 10/29/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413808-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260D	18.5	20.0	92	40-161
Benzene	8260D	19.4	20.0	97	79-119
Bromodichloromethane	8260D	19.0	20.0	95	81-123
Bromoform	8260D	20.1	20.0	101	65-146
Bromomethane	8260D	15.2	20.0	76	42-166
2-Butanone (MEK)	8260D	19.6	20.0	98	61-137
Carbon Disulfide	8260D	16.2	20.0	81	66-128
Carbon Tetrachloride	8260D	17.3	20.0	86	70-127
Chlorobenzene	8260D	18.7	20.0	94	80-121
Chloroethane	8260D	18.7	20.0	93	62-131
Chloroform	8260D	20.4	20.0	102	79-120
Chloromethane	8260D	21.1	20.0	106	61-143
Dibromochloromethane	8260D	18.6	20.0	93	72-128
1,1-Dichloroethane	8260D	19.8	20.0	99	80-124
1,2-Dibromoethane	8260D	18.9	20.0	94	82-127
1,2-Dichloroethane	8260D	20.4	20.0	102	71-127
1,1-Dichloroethene	8260D	19.3	20.0	97	71-118
cis-1,2-Dichloroethene	8260D	20.7	20.0	103	80-121
trans-1,2-Dichloroethene	8260D	18.1	20.0	90	73-118
1,2-Dichloropropane	8260D	19.9	20.0	100	80-119
cis-1,3-Dichloropropene	8260D	19.7	20.0	99	77-122
trans-1,3-Dichloropropene	8260D	20.3	20.0	101	71-133
Ethylbenzene	8260D	19.2	20.0	96	76-120
2-Hexanone	8260D	18.3	20.0	91	63-124
Methylene Chloride	8260D	20.6	20.0	103	73-122
4-Methyl-2-pentanone (MIBK)	8260D	20.1	20.0	100	66-124
Styrene	8260D	20.7	20.0	104	80-124
1,1,2,2-Tetrachloroethane	8260D	17.7	20.0	88	78-126
Tetrachloroethene	8260D	18.6	20.0	93	72-125
Toluene	8260D	19.7	20.0	98	79-119
1,1,1-Trichloroethane	8260D	19.6	20.0	98	75-125
1,1,2-Trichloroethane	8260D	20.0	20.0	100	82-121
Trichloroethene	8260D	18.4	20.0	92	74-122

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Analyzed: 10/29/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413808-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260D	22.0	20.0	110	74-159
o-Xylene	8260D	18.8	20.0	94	79-123
m,p-Xylenes	8260D	38.4	40.0	96	80-126

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Analyzed: 10/30/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413949-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260D	19.2	20.0	96	40-161
Benzene	8260D	20.3	20.0	101	79-119
Bromodichloromethane	8260D	20.1	20.0	101	81-123
Bromoform	8260D	21.0	20.0	105	65-146
Bromomethane	8260D	16.6	20.0	83	42-166
2-Butanone (MEK)	8260D	21.0	20.0	105	61-137
Carbon Disulfide	8260D	17.7	20.0	89	66-128
Carbon Tetrachloride	8260D	17.6	20.0	88	70-127
Chlorobenzene	8260D	19.2	20.0	96	80-121
Chloroethane	8260D	19.1	20.0	96	62-131
Chloroform	8260D	21.3	20.0	107	79-120
Chloromethane	8260D	23.0	20.0	115	61-143
Dibromochloromethane	8260D	19.1	20.0	95	72-128
1,1-Dichloroethane	8260D	21.1	20.0	106	80-124
1,2-Dibromoethane	8260D	19.7	20.0	99	82-127
1,2-Dichloroethane	8260D	21.1	20.0	105	71-127
1,1-Dichloroethene	8260D	20.2	20.0	101	71-118
cis-1,2-Dichloroethene	8260D	21.6	20.0	108	80-121
trans-1,2-Dichloroethene	8260D	19.0	20.0	95	73-118
1,2-Dichloropropane	8260D	20.6	20.0	103	80-119
cis-1,3-Dichloropropene	8260D	20.6	20.0	103	77-122
trans-1,3-Dichloropropene	8260D	20.7	20.0	104	71-133
Ethylbenzene	8260D	19.8	20.0	99	76-120
2-Hexanone	8260D	20.1	20.0	100	63-124
Methylene Chloride	8260D	21.4	20.0	107	73-122
4-Methyl-2-pentanone (MIBK)	8260D	21.8	20.0	109	66-124
Styrene	8260D	21.2	20.0	106	80-124
1,1,2,2-Tetrachloroethane	8260D	18.7	20.0	93	78-126
Tetrachloroethene	8260D	19.9	20.0	100	72-125
Toluene	8260D	20.2	20.0	101	79-119
1,1,1-Trichloroethane	8260D	20.2	20.0	101	75-125
1,1,2-Trichloroethane	8260D	20.4	20.0	102	82-121
Trichloroethene	8260D	19.3	20.0	96	74-122

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Analyzed: 10/30/24

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2413949-02

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	8260D	22.8	20.0	114	74-159
o-Xylene	8260D	19.4	20.0	97	79-123
m,p-Xylenes	8260D	40.4	40.0	101	80-126



Semivolatile Organic Compounds by GC/MS

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726

SURROGATE RECOVERY SUMMARY
1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Extraction Method: EPA 3535A

Tetrahydrofuran-d8 (SUR)		
Sample Name	Lab Code	64 - 124
CW3B-1024	R2410726-002	68
CW4B-1024	R2410726-004	63 *
CW4B-1024 RE	R2410726-004	86
CW4A-1024	R2410726-005	63 *
CW4A-1024 RE	R2410726-005	86
Method Blank	RQ2413728-01	70
Lab Control Sample	RQ2413728-02	65
Duplicate Lab Control Sample	RQ2413728-03	61 *
CW3B-1024 MS	RQ2413728-04	66
CW3B-1024 DMS	RQ2413728-05	70
Method Blank	RQ2414562-01	91
Lab Control Sample	RQ2414562-02	89
Duplicate Lab Control Sample	RQ2414562-03	83

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24
Date Received: 10/23/24
Date Analyzed: 11/6/24
Date Extracted: 10/28/24

Duplicate Matrix Spike Summary
1,4-Dioxane by GC/MS

Sample Name: CW3B-1024
Lab Code: R2410726-002
Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ2413728-04			Duplicate Matrix Spike RQ2413728-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,4-Dioxane	0.80	7.71	9.83	70	8.02	9.83	73	33-146	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2413728-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.035	1	11/06/24 16:38	10/28/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	70	64 - 124	11/06/24 16:38	

ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2414562-01

Units: ug/L
Basis: NA

1,4-Dioxane by GC/MS

Analysis Method: 8270E SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.035	1	11/12/24 23:57	11/9/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Tetrahydrofuran-d8 (SUR)	91	64 - 124	11/12/24 23:57	

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Analyzed: 11/06/24

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2413728-02			RQ2413728-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dioxane	8270E SIM	7.26	9.83	74	6.75	9.83	69	58-124	7	30

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Analyzed: 11/13/24

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

			Lab Control Sample			Duplicate Lab Control Sample				
			RQ2414562-02			RQ2414562-03				
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,4-Dioxane	8270E SIM	8.93	10.0	89	9.02	10.0	90	58-124	<1	30



Metals

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
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Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2410726-MB

Service Request: R2410726
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	10/31/24 20:53	10/30/24	
Barium, Total	6010D	20 U	ug/L	20	3	1	10/31/24 20:53	10/30/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	10/31/24 20:53	10/30/24	
Calcium, Total	6010D	1000 U	ug/L	1000	300	1	10/31/24 20:53	10/30/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	10/31/24 20:53	10/30/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	10/31/24 20:53	10/30/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	10/31/24 20:53	10/30/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	10/31/24 20:53	10/30/24	
Magnesium, Total	6010D	1000 U	ug/L	1000	30	1	10/31/24 20:53	10/30/24	
Manganese, Total	6010D	10 U	ug/L	10	4	1	10/31/24 20:53	10/30/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	10/31/24 20:53	10/30/24	
Potassium, Total	6010D	2000 U	ug/L	2000	400	1	10/31/24 20:53	10/30/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/01/24 20:12	10/30/24	
Sodium, Total	6010D	1000 U	ug/L	1000	300	1	10/31/24 20:53	10/30/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	10/31/24 20:53	10/30/24	

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Collected: 10/21/24
Date Received: 10/23/24
Date Analyzed: 10/31/24 - 11/01/24

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: CW3B-1024 **Units:** ug/L
Lab Code: R2410726-002 **Basis:** NA

Matrix Spike R2410726-002MS						Duplicate Matrix Spike R2410726-002DMS					
Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic, Total	6010D	10 U	35	40	88	31	40	79	75-125	11	20
Barium, Total	6010D	35	1970	2000	97	1960	2000	96	75-125	<1	20
Cadmium, Total	6010D	5.0 U	47.3	50.0	95	46.8	50.0	94	75-125	1	20
Calcium, Total	6010D	65800	68100	2000	113 #	68000	2000	113 #	75-125	<1	20
Chromium, Total	6010D	10 U	198	200	99	196	200	98	75-125	<1	20
Copper, Total	6010D	20 U	242	250	97	240	250	96	75-125	<1	20
Iron, Total	6010D	100 U	990	1000	99	990	1000	99	75-125	<1	20
Lead, Total	6010D	5.0 U	477	500	95	473	500	95	75-125	<1	20
Magnesium, Total	6010D	33500	35700	2000	110 #	35600	2000	108 #	75-125	<1	20
Manganese, Total	6010D	24	509	500	97	506	500	96	75-125	<1	20
Nickel, Total	6010D	40 U	474	500	95	472	500	94	75-125	<1	20
Potassium, Total	6010D	2400	22500	20000	101	22400	20000	100	75-125	<1	20
Selenium, Total	6010D	10 U	1010	1010	100	1010	1010	100	75-125	<1	20
Sodium, Total	6010D	21600	41000	20000	97	40800	20000	96	75-125	<1	20
Zinc, Total	6010D	20 U	471	500	94	467	500	93	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2410726
Date Analyzed: 10/31/24 - 11/01/24

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2410726-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	6010D	36.9	40	92	80-120
Barium, Total	6010D	1950	2000	97	80-120
Cadmium, Total	6010D	48.1	50.0	96	80-120
Calcium, Total	6010D	1960	2000	98	80-120
Chromium, Total	6010D	198	200	99	80-120
Copper, Total	6010D	244	250	98	80-120
Iron, Total	6010D	973	1000	97	80-120
Lead, Total	6010D	485	500	97	80-120
Magnesium, Total	6010D	1850	2000	92	80-120
Manganese, Total	6010D	482	500	96	80-120
Nickel, Total	6010D	492	500	98	80-120
Potassium, Total	6010D	19300	20000	96	80-120
Selenium, Total	6010D	979	1010	97	80-120
Sodium, Total	6010D	19400	20000	97	80-120
Zinc, Total	6010D	472	500	94	80-120



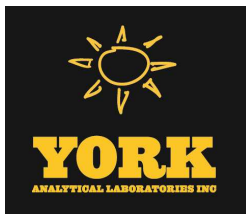
Subcontracted Analytical Parameters

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Technical Report

prepared for:

ALS Environmental
1565 Jefferson Road
Rochester NY, 14623
Attention: Christopher Leavy

Report Date: 11/05/2024
Client Project ID: R2410726
York Project (SDG) No.: 24J1734

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

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 11/05/2024
Client Project ID: R2410726
York Project (SDG) No.: 24J1734

ALS Environmental
1565 Jefferson Road
Rochester NY, 14623
Attention: Christopher Leavy

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 October 25, 2024 and listed below. The project was identified as your project: **R2410726**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
24J1734-01	CW3B-1024	Water	10/21/2024	10/25/2024
24J1734-02	CW4B-1024	Water	10/21/2024	10/25/2024
24J1734-03	CW4A-1024	Water	10/21/2024	10/25/2024
24J1734-04	FB2-1024	Water	10/21/2024	10/25/2024

General Notes for York Project (SDG) No.: 24J1734

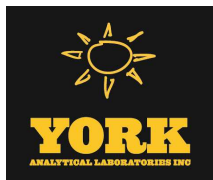
1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
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
Laboratory Manager

Date: 11/05/2024





Sample Information

Client Sample ID: CW3B-1024

York Sample ID: 24J1734-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24J1734

R2410726

Water

October 21, 2024 9:45 am

10/25/2024

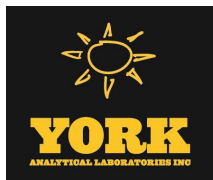
PFAS, EPA 1633 Target List

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)	1.65	J	ng/L	0.874	3.29	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	6.52		ng/L	0.651	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.70	J	ng/L	1.32	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.67	J	ng/L	1.26	3.40	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
335-67-1	Perfluorooctanoic acid (PFOA)	4.11		ng/L	0.781	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	10.2		ng/L	1.52	3.46	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.967	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.39	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.10	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.64	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.38	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.28	3.72	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.47	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.91	3.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.60	J	ng/L	0.428	7.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.64	3.72	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.69	3.55	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.45	3.59	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	13.9	14.1	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.81	14.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.613	14.9	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND		ng/L	0.929	6.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 16:48	AM



Sample Information

Client Sample ID: CW3B-1024

York Sample ID: 24J1734-01

York Project (SDG) No.
24J1734

Client Project ID
R2410726

Matrix
Water

Collection Date/Time
October 21, 2024 9:45 am

Date Received
10/25/2024

PFAS, EPA 1633 Target List

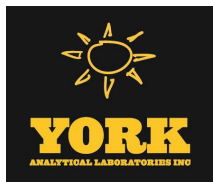
Log-in Notes:

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	3.98	7.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 16:48	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.465	7.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 16:48	AM
863090-89-5	Perfluoro-5-oxaheptanoic acid (PFMBA)	ND		ng/L	0.688	7.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 16:48	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1.88	J	ng/L	1.41	3.49	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.33	13.9	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	6.00	14.9	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	2.57	14.1	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.30	13.9	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
919005-14-4	ADONA	ND		ng/L	0.985	14.1	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.73	3.61	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.60	3.57	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 16:48	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	3.77	9.29	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.6	46.5	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	17.6	46.5	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.42	37.2	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.94	3.72	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM
1691-99-2	* N-EtFOSE	ND		ng/L	7.42	37.2	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.35	3.72	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 16:48	AM

Surrogate Recoveries		Result	Acceptance Range
M3PFBS	Surrogate: M3PFBS	122 %	25-150
13C5PFHXA	Surrogate: M5PFHxA	142 %	25-150
13C4PFHPA	Surrogate: M4PFHpA	103 %	25-150
13C3PFHXS	Surrogate: M3PFHxS	123 %	25-150
13C8PFOA	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	159 %	PFSu-H 25-150
13C6PFDA	Surrogate: M6PFDA	136 %	25-150
13C7PFUNA	Surrogate: M7PFUDa	116 %	25-150



Sample Information

Client Sample ID: CW3B-1024

York Sample ID: 24J1734-01

York Project (SDG) No.

24J1734

Client Project ID

R2410726

Matrix

Water

Collection Date/Time

October 21, 2024 9:45 am

Date Received

10/25/2024

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)	80.2 %			25-150						
13C2PFTEDA	Surrogate: M2PFTeDA	70.2 %			10-150						
13C4PFBA	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	94.3 %			25-150						
13C8PFOS	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	125 %			25-150						
13C5PFPEA	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	136 %			25-150						
13C8FOSA	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	134 %			10-150						
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	112 %			25-150						
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	120 %			25-150						
M2-6:2FTS	Surrogate: M2-6:2 FTS	111 %			25-200						
M2-8:2FTS	Surrogate: M2-8:2 FTS	102 %			25-200						
13C9PFNA	Surrogate: M9PFNA	112 %			25-150						
M2-4:2FTS	Surrogate: M2-4:2 FTS	142 %			25-150						
936109-37-4	Surrogate: d-N-MeFOSA	61.2 %			25-150						
936109-40-9	Surrogate: d-N-EtFOSA	45.9 %			25-150						
M3HFPO-DA	Surrogate: M3HFPO-DA	144 %			25-150						
D9-NETPFOSAI	Surrogate: d9-N-EtFOSE	65.1 %			25-150						
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	76.9 %			25-150						

Sample Information

Client Sample ID: CW4B-1024

York Sample ID: 24J1734-02

York Project (SDG) No.

24J1734

Client Project ID

R2410726

Matrix

Water

Collection Date/Time

October 21, 2024 12:55 pm

Date Received

10/25/2024

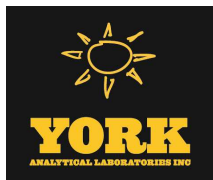
PFAS, EPA 1633 Target List

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)	1.22	J	ng/L	0.833	3.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	0.736	J	ng/L	0.621	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.26	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.21	3.24	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM



Sample Information

Client Sample ID: CW4B-1024

York Sample ID: 24J1734-02

York Project (SDG) No.
24J1734

Client Project ID
R2410726

Matrix
Water

Collection Date/Time
October 21, 2024 12:55 pm

Date Received
10/25/2024

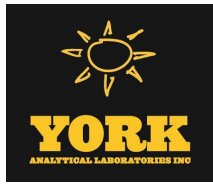
PFAS, EPA 1633 Target List

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)	4.15		ng/L	0.745	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.21	J	ng/L	1.45	3.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
375-95-1	Perfluorononanoic acid (PFNA)	1.32	J	ng/L	0.922	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.33	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.00	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.56	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.31	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.22	3.55	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.40	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.83	3.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.512	J	ng/L	0.408	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.56	3.55	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.61	3.39	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.34	3.42	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	13.3	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.63	13.6	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	6.56	J	ng/L	0.585	14.2	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.887	6.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:37	AM
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ng/L	3.79	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:37	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.443	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:37	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.656	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:37	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.35	3.33	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.17	13.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM



Sample Information

Client Sample ID: CW4B-1024

York Sample ID: 24J1734-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24J1734

R2410726

Water

October 21, 2024 12:55 pm

10/25/2024

PFAS, EPA 1633 Target List

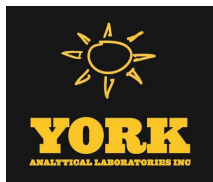
Log-in Notes:

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	5.73	14.2	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	2.45	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.24	13.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
919005-14-4	ADONA	ND		ng/L	0.940	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.65	3.44	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.52	3.40	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:37	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	3.60	8.87	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.0	44.3	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	16.8	44.3	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.07	35.5	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.80	3.55	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM
1691-99-2	* N-EtFOSE	ND		ng/L	7.07	35.5	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.19	3.55	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:37	AM

Surrogate Recoveries		Result	Acceptance Range
M3PFBS	Surrogate: M3PFBS	115 %	25-150
13C5PFHXA	Surrogate: M5PFHxA	129 %	25-150
13C4PFHFA	Surrogate: M4PFHFA	107 %	25-150
13C3PFHXS	Surrogate: M3PFHxS	115 %	25-150
13C8PFOA	Surrogate: Perfluoro-n- [13C8]octanoic acid (M8PFOA)	128 %	25-150
13C6PFDA	Surrogate: M6PFDA	132 %	25-150
13C7PFUNA	Surrogate: M7PFUdA	103 %	25-150
960315-52-0	Surrogate: Perfluoro-n- [1,2-13C2]dodecanoic acid (MPFDoA)	69.1 %	25-150
13C2PFTEDA	Surrogate: M2PFTeDA	48.7 %	10-150
13C4PFBA	Surrogate: Perfluoro-n- [13C4]butanoic acid (MPFBA)	77.1 %	25-150
13C8PFOS	Surrogate: Perfluoro-1- [13C8]octanesulfonic acid (M8PFOS)	126 %	25-150
13C5PFPEA	Surrogate: Perfluoro-n- [13C5]pentanoic acid (M5PFPeA)	128 %	25-150



Sample Information

Client Sample ID: CW4B-1024

York Sample ID: 24J1734-02

York Project (SDG) No.

24J1734

Client Project ID

R2410726

Matrix

Water

Collection Date/Time

October 21, 2024 12:55 pm

Date Received

10/25/2024

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)	124 %			10-150						
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	108 %			25-150						
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	111 %			25-150						
M2-6:2FTS	Surrogate: M2-6:2 FTS	107 %			25-200						
M2-8:2FTS	Surrogate: M2-8:2 FTS	99.3 %			25-200						
13C9PFNA	Surrogate: M9PFNA	111 %			25-150						
M2-4:2FTS	Surrogate: M2-4:2 FTS	139 %			25-150						
936109-37-4	Surrogate: d-N-MeFOSA	48.5 %			25-150						
936109-40-9	Surrogate: d-N-EtFOSA	40.4 %			25-150						
M3HFPO-DA	Surrogate: M3HFPO-DA	129 %			25-150						
D9-NETPFOSA	Surrogate: d9-N-EtFOSE	55.4 %			25-150						
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	69.7 %			25-150						

Sample Information

Client Sample ID: CW4A-1024

York Sample ID: 24J1734-03

York Project (SDG) No.

24J1734

Client Project ID

R2410726

Matrix

Water

Collection Date/Time

October 21, 2024 2:25 pm

Date Received

10/25/2024

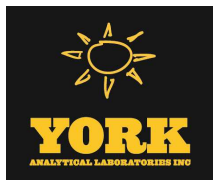
PFAS, EPA 1633 Target List

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)	1.12	J	ng/L	0.848	3.19	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.632	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.28	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.23	3.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
335-67-1	Perfluorooctanoic acid (PFOA)	3.95		ng/L	0.758	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.40		ng/L	1.48	3.36	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.939	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.35	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM



Sample Information

Client Sample ID: CW4A-1024

York Sample ID: 24J1734-03

York Project (SDG) No.
24J1734

Client Project ID
R2410726

Matrix
Water

Collection Date/Time
October 21, 2024 2:25 pm

Date Received
10/25/2024

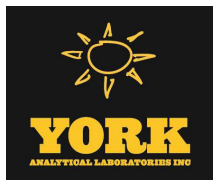
PFAS, EPA 1633 Target List

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	2.04	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.59	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.34	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.25	3.61	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.43	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.86	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.415	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.59	3.61	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.64	3.45	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.38	3.48	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	13.5	13.7	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.70	13.9	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	4.49	J	ng/L	0.596	14.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.903	6.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:53	AM
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ng/L	3.86	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:53	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.451	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:53	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.668	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 17:53	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.37	3.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.23	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	5.83	14.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	2.49	13.6	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.26	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
919005-14-4	ADONA	ND		ng/L	0.957	13.6	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM



Sample Information

Client Sample ID: CW4A-1024

York Sample ID: 24J1734-03

York Project (SDG) No.
24J1734

Client Project ID
R2410726

Matrix
Water

Collection Date/Time
October 21, 2024 2:25 pm

Date Received
10/25/2024

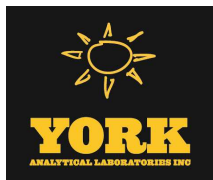
PFAS, EPA 1633 Target List

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	1.68	3.50	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.55	3.47	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 17:53	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	3.66	9.03	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.2	45.1	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	17.1	45.1	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.20	36.1	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.85	3.61	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
1691-99-2	* N-EtFOSE	ND		ng/L	7.20	36.1	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.25	3.61	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 17:53	AM
Surrogate Recoveries		Result	Acceptance Range								
M3PFBS	Surrogate: M3PFBS	119 %	25-150								
13C5PFHXA	Surrogate: M5PFHxA	136 %	25-150								
13C4PFHPA	Surrogate: M4PFHpA	115 %	25-150								
13C3PFHXS	Surrogate: M3PFHxS	130 %	25-150								
13C8PFOA	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	143 %	25-150								
13C6PFDA	Surrogate: M6PFDA	132 %	25-150								
13C7PFUNA	Surrogate: M7PFUdA	106 %	25-150								
960315-52-0	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	79.6 %	25-150								
13C2PFTEDA	Surrogate: M2PFTeDA	50.2 %	10-150								
13C4PFBA	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	89.1 %	25-150								
13C8PFOS	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	136 %	25-150								
13C5PFPEA	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	137 %	25-150								
13C8FOSA	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	131 %	10-150								
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	115 %	25-150								
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	128 %	25-150								
M2-6:2FTS	Surrogate: M2-6:2 FTS	122 %	25-200								
M2-8:2FTS	Surrogate: M2-8:2 FTS	111 %	25-200								
13C9PFNA	Surrogate: M9PFNA	132 %	25-150								
M2-4:2FTS	Surrogate: M2-4:2 FTS	151 %	PFSu-H	25-150							



Sample Information

Client Sample ID: CW4A-1024

York Sample ID: 24J1734-03

York Project (SDG) No.
24J1734

Client Project ID
R2410726

Matrix
Water

Collection Date/Time
October 21, 2024 2:25 pm

Date Received
10/25/2024

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	55.2 %			25-150						
936109-40-9	Surrogate: d-N-EtFOSA	48.4 %			25-150						
M3HFPO-DA	Surrogate: M3HFPO-DA	137 %			25-150						
D9-NETPFOSA	Surrogate: d9-N-EtFOSE	65.1 %			25-150						
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	77.9 %			25-150						

Sample Information

Client Sample ID: FB2-1024

York Sample ID: 24J1734-04

York Project (SDG) No.
24J1734

Client Project ID
R2410726

Matrix
Water

Collection Date/Time
October 21, 2024 2:25 pm

Date Received
10/25/2024

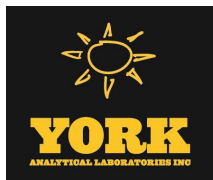
PFAS, EPA 1633 Target List

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	0.842	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.627	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.27	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.22	3.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.753	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.47	3.33	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.932	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.34	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.03	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.58	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		ng/L	1.33	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.24	3.58	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.42	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM



Sample Information

Client Sample ID: FB2-1024

York Sample ID: 24J1734-04

York Project (SDG) No.

24J1734

Client Project ID

R2410726

Matrix

Water

Collection Date/Time

October 21, 2024 2:25 pm

Date Received

10/25/2024

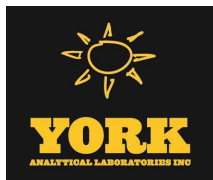
PFAS, EPA 1633 Target List

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	1.85	3.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.412	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.58	3.58	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.63	3.42	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.37	3.46	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	13.4	13.6	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.67	13.8	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.591	14.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		ng/L	0.896	6.38	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 18:09	AM
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		ng/L	3.84	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 18:09	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.448	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 18:09	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.663	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/01/2024 10:25	11/04/2024 18:09	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.36	3.37	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.21	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	5.79	14.3	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	2.47	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.25	13.4	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
919005-14-4	ADONA	ND		ng/L	0.950	13.5	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.67	3.48	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.54	3.44	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/01/2024 10:25	11/04/2024 18:09	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	3.64	8.96	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.1	44.8	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	17.0	44.8	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM



Sample Information

Client Sample ID: FB2-1024

York Sample ID: 24J1734-04

York Project (SDG) No.
24J1734

Client Project ID
R2410726

Matrix
Water

Collection Date/Time
October 21, 2024 2:25 pm

Date Received
10/25/2024

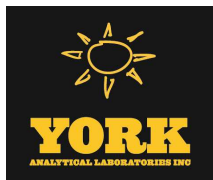
PFAS, EPA 1633 Target List

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	7.15	35.8	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.83	3.58	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM
1691-99-2	* N-EtFOSE	ND		ng/L	7.15	35.8	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.23	3.58	1	EPA 1633 Draft 3 Certifications:	11/01/2024 10:25	11/04/2024 18:09	AM
Surrogate Recoveries		Result		Acceptance Range							
M3PFBS	Surrogate: M3PFBS	115 %		25-150							
13C5PFHXA	Surrogate: M5PFHxA	131 %		25-150							
13C4PFHPA	Surrogate: M4PFHpA	108 %		25-150							
13C3PFHXS	Surrogate: M3PFHxS	121 %		25-150							
13C8PFOA	Surrogate: Perfluoro-n- [13C8]octanoic acid (M8PFOA)	134 %		25-150							
13C6PFDA	Surrogate: M6PFDA	128 %		25-150							
13C7PFUNA	Surrogate: M7PFUDa	101 %		25-150							
960315-52-0	Surrogate: Perfluoro-n- [1,2-13C2]dodecanoic acid (MPFDoA)	75.1 %		25-150							
13C2PFTEDA	Surrogate: M2PFTeDA	54.3 %		10-150							
13C4PFBA	Surrogate: Perfluoro-n- [13C4]butanoic acid (MPFBA)	18.2 %	PFSu-L	25-150							
13C8PFOS	Surrogate: Perfluoro-1- [13C8]octanesulfonic acid (M8PFOS)	131 %		25-150							
13C5PFPEA	Surrogate: Perfluoro-n- [13C5]pentanoic acid (M5PFPeA)	115 %		25-150							
13C8FOSA	Surrogate: Perfluoro-1- [13C8]octanesulfonamide (M8FOSA)	127 %		10-150							
D3-NMEFOSAA	Surrogate: d3-N-MeFOSAA	115 %		25-150							
D5-NETFOSAA	Surrogate: d5-N-EtFOSAA	126 %		25-150							
M2-6:2FTS	Surrogate: M2-6:2 FTS	101 %		25-200							
M2-8:2FTS	Surrogate: M2-8:2 FTS	93.3 %		25-200							
13C9PFNA	Surrogate: M9PFNA	116 %		25-150							
M2-4:2FTS	Surrogate: M2-4:2 FTS	143 %		25-150							
936109-37-4	Surrogate: d-N-MeFOSA	82.4 %		25-150							
936109-40-9	Surrogate: d-N-EtFOSA	69.6 %		25-150							
M3HFPO-DA	Surrogate: M3HFPO-DA	127 %		25-150							
D9-NETPFOSA	Surrogate: d9-N-EtFOSE	58.2 %		25-150							
D7-NMEPFOSA	Surrogate: d7-N-MeFOSE	70.6 %		25-150							



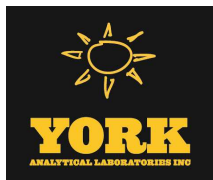
Analytical Batch Summary

Batch ID: BK40044

Preparation Method: EPA 1633 Prep

Prepared By: MPR

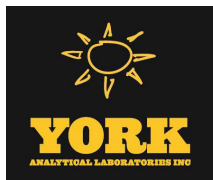
YORK Sample ID	Client Sample ID	Preparation Date
24J1734-01	CW3B-1024	11/01/24
24J1734-02	CW4B-1024	11/01/24
24J1734-03	CW4A-1024	11/01/24
24J1734-04	FB2-1024	11/01/24
BK40044-BLK1	Blank	11/01/24
BK40044-BS1	LCS	11/01/24
BK40044-BS2	LCS	11/01/24
BK40044-MS1	Matrix Spike	11/01/24
BK40044-MSD1	Matrix Spike Dup	11/01/24



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 BK40044 - EPA 1633 Prep											
Blank (BK40044-BLK1)											
Prepared: 11/01/2024 Analyzed: 11/04/2024											
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)	4.98	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-dioxahexanoic 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	20.1		"	23.3		86.1	25-150				
Surrogate: M5PFHxA	24.4		"	25.0		97.5	25-150				
Surrogate: M4PFHpA	18.8		"	25.0		75.4	25-150				
Surrogate: M3PFHxS	21.4		"	23.7		90.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	27.7		"	25.0		111	25-150				
Surrogate: M6PFDA	12.5		"	12.5		99.6	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 BK40044 - EPA 1633 Prep

Blank (BK40044-BLK1)

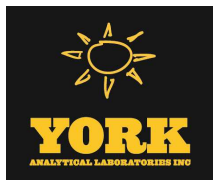
Prepared: 11/01/2024 Analyzed: 11/04/2024

Surrogate: M7PFUdA	9.88		ng/L	12.5		79.0	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	7.71		"	12.5		61.7	25-150				
Surrogate: M2PFTeDA	4.58		"	12.5		36.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	20.8		"	100		20.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	23.5		"	24.0		98.0	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	44.0		"	50.0		88.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	24.7		"	25.0		98.9	10-150				
Surrogate: d3-N-MeFOSAA	46.8		"	50.0		93.6	25-150				
Surrogate: d5-N-EtFOSAA	47.2		"	50.0		94.5	25-150				
Surrogate: M2-6:2 FTS	42.9		"	47.6		90.2	25-200				
Surrogate: M2-8:2 FTS	42.6		"	48.0		88.7	25-200				
Surrogate: M9PFNA	9.75		"	12.5		78.0	25-150				
Surrogate: M2-4:2 FTS	52.3		"	46.9		111	25-150				
Surrogate: d-N-MeFOSA	13.3		"	25.0		53.1	25-150				
Surrogate: d-N-EtFOSA	9.72		"	25.0		38.9	25-150				
Surrogate: M3HFPO-DA	91.5		"	100		91.5	25-150				
Surrogate: d9-N-EtFOSE	109		"	250		43.7	25-150				
Surrogate: d7-N-MeFOSE	144		"	250		57.7	25-150				

LCS (BK40044-BS1)

Prepared: 11/01/2024 Analyzed: 11/04/2024

Perfluorobutanesulfonic acid (PFBS)	34.2	1.77	ng/L	35.4		96.6	50-150				
Perfluorohexanoic acid (PFHxA)	40.4	2.00	"	40.0		101	50-150				
Perfluoroheptanoic acid (PFHpA)	54.2	2.00	"	40.0		136	50-150				
Perfluorohexanesulfonic acid (PFHxS)	38.8	1.83	"	36.6		106	50-150				
Perfluorooctanoic acid (PFOA)	36.4	2.00	"	40.0		91.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	39.2	1.86	"	37.2		105	50-150				
Perfluorononanoic acid (PFNA)	33.0	2.00	"	40.0		82.4	50-150				
Perfluorodecanoic acid (PFDA)	30.7	2.00	"	40.0		76.8	50-150				
Perfluoroundecanoic acid (PFUnA)	38.8	2.00	"	40.0		97.0	50-150				
Perfluorododecanoic acid (PFDoA)	38.5	2.00	"	40.0		96.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	48.9	2.00	"	40.0		122	50-150				
Perfluorotetradecanoic acid (PFTA)	38.6	2.00	"	40.0		96.4	50-150				
N-MeFOSAA	40.0	2.00	"	40.0		100	50-150				
N-EtFOSAA	38.3	2.00	"	40.0		95.8	50-150				
Perfluoropentanoic acid (PFPeA)	82.2	4.00	"	80.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	29.0	2.00	"	40.0		72.6	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	39.5	1.91	"	38.2		103	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)	133	7.60	"	152		87.3	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	153	7.68	"	154		99.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	162	8.00	"	160		101	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	81.1	3.56	"	71.2		114	50-150				
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	84.6	4.00	"	80.0		106	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	48.6	4.00	"	80.0		60.8	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	83.5	4.00	"	80.0		104	50-150				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

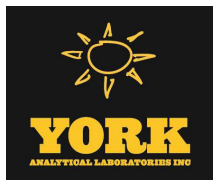
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK40044 - EPA 1633 Prep

LCS (BK40044-BS1)

Prepared: 11/01/2024 Analyzed: 11/04/2024

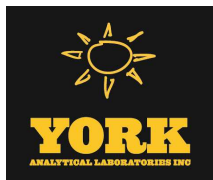
Perfluoro-1-pentanesulfonate (PFPeS)	39.0	1.88	ng/L	37.6		104	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	132	7.50	"	150		88.1	50-150				
HFPO-DA (Gen-X)	89.3	8.00	"	80.0		112	50-150				
11CL-PF3OUdS	72.3	7.56	"	75.6		95.6	50-150				
9CL-PF3ONS	81.8	7.48	"	74.8		109	50-150				
ADONA	85.4	7.56	"	75.6		113	50-150				
Perfluorododecanesulfonic acid (PFDoS)	24.5	1.94	"	38.8		63.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	37.9	1.92	"	38.4		98.7	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	147	5.00	"	160		91.7	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	829	25.0	"	800		104	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	943	25.0	"	800		118	50-150				
N-MeFOSE	347	20.0	"	400		86.9	50-150				
N-MeFOSA	44.0	2.00	"	40.0		110	50-150				
N-EtFOSE	398	20.0	"	400		99.5	50-150				
N-EtFOSA	35.0	2.00	"	40.0		87.4	50-150				
Surrogate: M3PFBS	20.8		"	23.3		89.1	25-150				
Surrogate: M5PFHxA	24.3		"	25.0		97.3	25-150				
Surrogate: M4PFHpA	18.7		"	25.0		74.7	25-150				
Surrogate: M3PFHxS	21.9		"	23.7		92.6	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	25.4		"	25.0		102	25-150				
Surrogate: M6PFDA	14.0		"	12.5		112	25-150				
Surrogate: M7PFUdA	12.5		"	12.5		100	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	8.79		"	12.5		70.3	25-150				
Surrogate: M2PFTeDA	5.72		"	12.5		45.8	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	23.2		"	100		23.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	22.1		"	24.0		92.2	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	44.1		"	50.0		88.2	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	23.7		"	25.0		94.7	10-150				
Surrogate: d3-N-MeFOSAA	44.3		"	50.0		88.6	25-150				
Surrogate: d5-N-EtFOSAA	45.9		"	50.0		91.8	25-150				
Surrogate: M2-6:2 FTS	47.9		"	47.6		101	25-200				
Surrogate: M2-8:2 FTS	48.8		"	48.0		102	25-200				
Surrogate: M9PFNA	12.1		"	12.5		97.0	25-150				
Surrogate: M2-4:2 FTS	52.7		"	46.9		112	25-150				
Surrogate: d-N-MeFOSA	11.5		"	25.0		46.2	25-150				
Surrogate: d-N-EtFOSA	9.04		"	25.0		36.2	25-150				
Surrogate: M3HFPO-DA	91.8		"	100		91.8	25-150				
Surrogate: d9-N-EtFOSE	116		"	250		46.2	25-150				
Surrogate: d7-N-MeFOSE	139		"	250		55.7	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	Limit	Flag
Batch BK40044 - EPA 1633 Prep											
LCS (BK40044-BS2)						Prepared: 11/01/2024 Analyzed: 11/04/2024					
Perfluorobutanesulfonic acid (PFBS)	7.22	1.77	ng/L	7.08		102	50-150				
Perfluorohexanoic acid (PFHxA)	7.52	2.00	"	8.00		94.0	50-150				
Perfluoroheptanoic acid (PFHpA)	11.8	2.00	"	8.00		148	50-150				
Perfluorohexanesulfonic acid (PFHxS)	7.31	1.83	"	7.32		99.8	50-150				
Perfluorooctanoic acid (PFOA)	7.40	2.00	"	8.00		92.5	50-150				
Perfluorooctanesulfonic acid (PFOS)	8.13	1.86	"	7.44		109	50-150				
Perfluorononanoic acid (PFNA)	9.01	2.00	"	8.00		113	50-150				
Perfluorodecanoic acid (PFDA)	6.78	2.00	"	8.00		84.8	50-150				
Perfluoroundecanoic acid (PFUnA)	8.13	2.00	"	8.00		102	50-150				
Perfluorododecanoic acid (PFDoA)	8.10	2.00	"	8.00		101	50-150				
Perfluorotridecanoic acid (PFTriDA)	10.5	2.00	"	8.00		132	50-150				
Perfluorotetradecanoic acid (PFTA)	9.02	2.00	"	8.00		113	50-150				
N-MeFOSAA	9.01	2.00	"	8.00		113	50-150				
N-EtFOSAA	8.04	2.00	"	8.00		100	50-150				
Perfluoropentanoic acid (PFPeA)	16.6	4.00	"	16.0		104	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	6.54	2.00	"	8.00		81.7	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	7.98	1.91	"	7.64		104	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	6.24	1.93	"	7.72		80.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	31.3	7.60	"	30.4		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	31.8	7.68	"	30.7		104	50-150				
Perfluoro-n-butanoic acid (PFBA)	33.6	8.00	"	32.0		105	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	16.1	3.56	"	14.2		113	50-150				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	17.4	4.00	"	16.0		109	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	17.5	4.00	"	16.0		109	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	16.2	4.00	"	16.0		101	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	8.03	1.88	"	7.52		107	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	27.8	7.50	"	30.0		92.7	50-150				
HFPO-DA (Gen-X)	16.8	8.00	"	16.0		105	50-150				
11CL-PF3OUdS	15.3	7.56	"	15.1		101	50-150				
9CL-PF3ONS	16.7	7.48	"	15.0		112	50-150				
ADONA	17.8	7.56	"	15.1		118	50-150				
Perfluorododecanesulfonic acid (PFDoS)	5.06	1.94	"	7.76		65.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	6.83	1.92	"	7.68		88.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	31.6	5.00	"	32.0		98.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	172	25.0	"	160		107	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	184	25.0	"	160		115	50-150				
N-MeFOSE	70.0	20.0	"	80.0		87.5	50-150				
N-MeFOSA	8.67	2.00	"	8.00		108	50-150				
N-EtFOSE	85.8	20.0	"	80.0		107	50-150				
N-EtFOSA	8.85	2.00	"	8.00		111	50-150				
Surrogate: M3PFBS	21.1		"	23.3		90.4	25-150				
Surrogate: M5PFHxA	25.2		"	25.0		101	25-150				
Surrogate: M4PFHpA	20.3		"	25.0		81.1	25-150				
Surrogate: M3PFHxS	22.8		"	23.7		96.2	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	29.1		"	25.0		116	25-150				
Surrogate: M6PFDA	13.7		"	12.5		110	25-150				
Surrogate: M7PFUdA	12.4		"	12.5		99.6	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 BK40044 - EPA 1633 Prep

LCS (BK40044-BS2)

Prepared: 11/01/2024 Analyzed: 11/04/2024

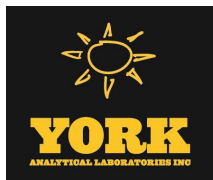
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	7.14		ng/L	12.5		57.1	25-150				
Surrogate: M2PFTeDA	5.43		"	12.5		43.5	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	102		"	100		102	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	24.0		"	24.0		100	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	47.9		"	50.0		95.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	23.8		"	25.0		95.2	10-150				
Surrogate: d3-N-MeFOSAA	44.5		"	50.0		88.9	25-150				
Surrogate: d5-N-EtFOSAA	47.0		"	50.0		94.0	25-150				
Surrogate: M2-6:2 FTS	43.8		"	47.6		92.1	25-200				
Surrogate: M2-8:2 FTS	46.3		"	48.0		96.5	25-200				
Surrogate: M9PFNA	11.5		"	12.5		92.1	25-150				
Surrogate: M2-4:2 FTS	54.9		"	46.9		117	25-150				
Surrogate: d-N-MeFOSA	8.20		"	25.0		32.8	25-150				
Surrogate: d-N-EtFOSA	6.63		"	25.0		26.5	25-150				
Surrogate: M3HFPO-DA	93.2		"	100		93.2	25-150				
Surrogate: d9-N-EtFOSE	116		"	250		46.4	25-150				
Surrogate: d7-N-MeFOSE	154		"	250		61.6	25-150				

Matrix Spike (BK40044-MS1)

*Source sample: 24J1734-01 (CW3B-1024)

Prepared: 11/01/2024 Analyzed: 11/04/2024

Perfluorobutanesulfonic acid (PFBS)	59.2	3.19	ng/L	63.9	1.65	90.1	25-150				
Perfluorohexanoic acid (PFHxA)	74.5	3.61	"	72.2	6.52	94.1	25-150				
Perfluoroheptanoic acid (PFHpA)	101	3.61	"	72.2	3.70	134	25-150				
Perfluorohexanesulfonic acid (PFHxS)	69.2	3.30	"	66.1	2.67	101	25-150				
Perfluorooctanoic acid (PFOA)	72.1	3.61	"	72.2	4.11	94.2	25-150				
Perfluorooctanesulfonic acid (PFOS)	73.1	3.36	"	67.1	10.2	93.7	25-150				
Perfluorononanoic acid (PFNA)	68.2	3.61	"	72.2	ND	94.4	25-150				
Perfluorodecanoic acid (PFDA)	52.8	3.61	"	72.2	ND	73.1	25-150				
Perfluoroundecanoic acid (PFUnA)	66.7	3.61	"	72.2	ND	92.4	25-150				
Perfluorododecanoic acid (PFDoA)	50.0	3.61	"	72.2	ND	69.2	25-150				
Perfluorotridecanoic acid (PFTriDA)	75.8	3.61	"	72.2	ND	105	25-150				
Perfluorotetradecanoic acid (PFTA)	70.9	3.61	"	72.2	ND	98.3	25-150				
N-MeFOSAA	68.2	3.61	"	72.2	ND	94.5	25-150				
N-EtFOSAA	65.8	3.61	"	72.2	ND	91.2	25-150				
Perfluoropentanoic acid (PFPeA)	155	7.22	"	144	2.60	105	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	56.2	3.61	"	72.2	ND	77.8	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	66.8	3.45	"	69.0	ND	96.9	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	51.4	3.48	"	69.7	ND	73.8	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	266	13.7	"	274	ND	97.0	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	262	13.9	"	277	ND	94.6	25-150				
Perfluoro-n-butanoic acid (PFBA)	299	14.4	"	289	ND	104	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	143	6.43	"	129	ND	111	25-150				
Perfluoro-3,6-dioxahheptanoic acid (NFDHA)	151	7.22	"	144	ND	105	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	152	7.22	"	144	ND	105	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	141	7.22	"	144	ND	97.5	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	71.1	3.39	"	67.9	1.88	102	25-150				



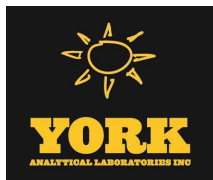
PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK40044 - EPA 1633 Prep

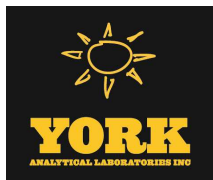
Matrix Spike (BK40044-MS1)	*Source sample: 24J1734-01 (CW3B-1024)						Prepared: 11/01/2024 Analyzed: 11/04/2024				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	227	13.5	ng/L	271	ND	83.9	25-150				
HFPO-DA (Gen-X)	138	14.4	"	144	ND	95.8	25-150				
11CL-PF3OUdS	90.7	13.6	"	136	ND	66.5	25-150				
9CL-PF3ONS	121	13.5	"	135	ND	89.6	25-150				
ADONA	138	13.6	"	136	ND	101	25-150				
Perfluorododecanesulfonic acid (PFDoS)	34.1	3.50	"	70.0	ND	48.8	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	56.9	3.47	"	69.3	ND	82.1	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	278	9.03	"	289	ND	96.4	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	1480	45.1	"	1440	ND	102	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1610	45.1	"	1440	ND	111	25-150				
N-MeFOSE	500	36.1	"	722	ND	69.3	25-150				
N-MeFOSA	59.2	3.61	"	72.2	ND	82.0	25-150				
N-EtFOSE	597	36.1	"	722	ND	82.7	25-150				
N-EtFOSA	47.3	3.61	"	72.2	ND	65.5	25-150				
Surrogate: M3PFBS	36.1		"	42.1		85.9	25-150				
Surrogate: M5PFHxA	41.3		"	45.1		91.5	25-150				
Surrogate: M4PFHpA	33.5		"	45.1		74.1	25-150				
Surrogate: M3PFHxS	38.0		"	42.8		88.8	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	41.0		"	45.1		90.9	25-150				
Surrogate: M6PFDA	22.6		"	22.6		100	25-150				
Surrogate: M7PFUdA	18.4		"	22.6		81.6	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	15.1		"	22.6		67.0	25-150				
Surrogate: M2PFTeDA	10.0		"	22.6		44.3	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	145		"	181		80.3	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	39.1		"	43.2		90.4	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	79.3		"	90.3		87.8	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	37.0		"	45.1		82.0	10-150				
Surrogate: d3-N-MeFOSAA	66.6		"	90.3		73.8	25-150				
Surrogate: d5-N-EtFOSAA	70.4		"	90.3		78.0	25-150				
Surrogate: M2-6:2 FTS	70.0		"	85.8		81.6	25-200				
Surrogate: M2-8:2 FTS	70.0		"	86.6		80.8	25-200				
Surrogate: M9PFNA	18.7		"	22.6		83.1	25-150				
Surrogate: M2-4:2 FTS	89.0		"	84.7		105	25-150				
Surrogate: d-N-MeFOSA	17.7		"	45.1		39.2	25-150				
Surrogate: d-N-EtFOSA	13.3		"	45.1		29.4	25-150				
Surrogate: M3HFPO-DA	169		"	181		93.4	25-150				
Surrogate: d9-N-EtFOSE	169		"	451		37.5	25-150				
Surrogate: d7-N-MeFOSE	212		"	451		47.0	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	Limit	Flag
Batch BK40044 - EPA 1633 Prep											
Matrix Spike Dup (BK40044-MSD1)		*Source sample: 24J1734-01 (CW3B-1024)					Prepared: 11/01/2024 Analyzed: 11/04/2024				
Perfluorobutanesulfonic acid (PFBS)	62.2	3.24	ng/L	64.8	1.65	93.4	25-150		4.94	35	
Perfluorohexanoic acid (PFHxA)	73.7	3.66	"	73.3	6.52	91.7	25-150		1.05	35	
Perfluoroheptanoic acid (PFHpA)	101	3.66	"	73.3	3.70	132	25-150		0.0630	35	
Perfluorohexanesulfonic acid (PFHxS)	67.8	3.35	"	67.0	2.67	97.2	25-150		2.11	35	
Perfluorooctanoic acid (PFOA)	70.2	3.66	"	73.3	4.11	90.3	25-150		2.67	35	
Perfluorooctanesulfonic acid (PFOS)	79.8	3.41	"	68.1	10.2	102	25-150		8.73	35	
Perfluorononanoic acid (PFNA)	65.8	3.66	"	73.3	ND	89.8	25-150		3.56	35	
Perfluorodecanoic acid (PFDA)	55.2	3.66	"	73.3	ND	75.4	25-150		4.59	35	
Perfluoroundecanoic acid (PFUnA)	75.4	3.66	"	73.3	ND	103	25-150		12.3	35	
Perfluorododecanoic acid (PFDoA)	59.5	3.66	"	73.3	ND	81.2	25-150		17.4	35	
Perfluorotridecanoic acid (PFTriDA)	71.3	3.66	"	73.3	ND	97.3	25-150		6.07	35	
Perfluorotetradecanoic acid (PFTA)	70.3	3.66	"	73.3	ND	95.9	25-150		0.958	35	
N-MeFOSAA	69.0	3.66	"	73.3	ND	94.2	25-150		1.15	35	
N-EtFOSAA	76.4	3.66	"	73.3	ND	104	25-150		14.9	35	
Perfluoropentanoic acid (PFPeA)	150	7.33	"	147	2.60	100	25-150		3.20	35	
Perfluoro-1-octanesulfonamide (FOSA)	58.1	3.66	"	73.3	ND	79.3	25-150		3.40	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	77.6	3.50	"	70.0	ND	111	25-150		14.9	35	
Perfluoro-1-decanesulfonic acid (PFDS)	52.2	3.53	"	70.7	ND	73.8	25-150		1.53	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	249	13.9	"	278	ND	89.6	25-150		6.50	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	266	14.1	"	281	ND	94.4	25-150		1.22	35	
Perfluoro-n-butanoic acid (PFBA)	295	14.7	"	293	ND	101	25-150		1.35	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	142	6.52	"	130	ND	109	25-150		0.634	30	
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	197	7.33	"	147	ND	134	25-150		26.0	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	150	7.33	"	147	ND	102	25-150		1.49	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	140	7.33	"	147	ND	95.5	25-150		0.649	30	
Perfluoro-1-pentanesulfonate (PFPeS)	71.3	3.44	"	68.9	1.88	101	25-150		0.322	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	232	13.7	"	275	ND	84.3	25-150		1.95	30	
HFPO-DA (Gen-X)	138	14.7	"	147	ND	94.4	25-150		0.0380	30	
11CL-PF3OUdS	91.5	13.8	"	138	ND	66.1	25-150		0.856	30	
9CL-PF3ONS	119	13.7	"	137	ND	86.7	25-150		1.91	30	
ADONA	139	13.8	"	138	ND	100	25-150		0.650	30	
Perfluorododecanesulfonic acid (PFDoS)	36.4	3.55	"	71.1	ND	51.2	25-150		6.30	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	61.5	3.52	"	70.3	ND	87.4	25-150		7.73	30	
3-Perfluoropropyl propanoic acid (FPrPA)	277	9.16	"	293	ND	94.5	25-150		0.496	30	
3-Perfluoropentyl propanoic acid (FPePA)	1460	45.8	"	1470	ND	99.6	25-150		1.29	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	1620	45.8	"	1470	ND	110	25-150		0.496	30	
N-MeFOSE	559	36.6	"	733	ND	76.3	25-150		11.1	30	
N-MeFOSA	80.4	3.66	"	73.3	ND	110	25-150		30.4	30	Non-dir.
N-EtFOSE	612	36.6	"	733	ND	83.5	25-150		2.45	30	
N-EtFOSA	67.5	3.66	"	73.3	ND	92.1	25-150		35.3	30	Non-dir.
Surrogate: M3PFBS	42.1		"	42.7		98.7	25-150				
Surrogate: M5PFHxA	54.1		"	45.8		118	25-150				
Surrogate: M4PFHpA	42.5		"	45.8		92.8	25-150				
Surrogate: M3PFHxS	47.6		"	43.4		110	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	57.0		"	45.8		125	25-150				
Surrogate: M6PFDA	27.9		"	22.9		122	25-150				
Surrogate: M7PFUdA	20.7		"	22.9		90.6	25-150				



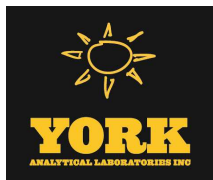
PFAS Target compounds by LC/MS-MS - Quality Control Data

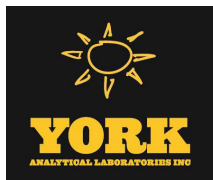
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK40044 - EPA 1633 Prep

Matrix Spike Dup (BK40044-MSD1)		*Source sample: 24J1734-01 (CW3B-1024)					Prepared: 11/01/2024 Analyzed: 11/04/2024				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	15.4		ng/L	22.9		67.3	25-150				
Surrogate: M2PFTeDA	11.8		"	22.9		51.7	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	185		"	183		101	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	48.2		"	43.9		110	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	103		"	91.6		113	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	50.6		"	45.8		110	10-150				
Surrogate: d3-N-MeFOSAA	88.2		"	91.6		96.3	25-150				
Surrogate: d5-N-EtFOSAA	90.2		"	91.6		98.5	25-150				
Surrogate: M2-6:2 FTS	89.0		"	87.1		102	25-200				
Surrogate: M2-8:2 FTS	87.7		"	87.9		99.8	25-200				
Surrogate: M9PFNA	24.2		"	22.9		106	25-150				
Surrogate: M2-4:2 FTS	103		"	85.9		120	25-150				
Surrogate: d-N-MeFOSA	22.8		"	45.8		49.7	25-150				
Surrogate: d-N-EtFOSA	15.1		"	45.8		33.1	25-150				
Surrogate: M3HFPO-DA	216		"	183		118	25-150				
Surrogate: d9-N-EtFOSE	218		"	458		47.6	25-150				
Surrogate: d7-N-MeFOSE	283		"	458		61.7	25-150				





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.
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.

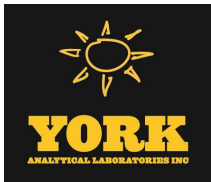
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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.

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Christopher Leavy

Project Number: R2410726
Project Manager: Christopher Leavy
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample		PFAS 1633final
				Date	Time	
R2410726-002	CW3B-1024	8	Water	10/21/24	0945	X
R2410726-004	CW4B-1024	4	Water	10/21/24	1255	X
R2410726-005	CW4A-1024	4	Water	10/21/24	1425	X
R2410726-006	FB2-1024	1	Water	10/21/24	1425	X

Page 99 of 99
Folder Comments:
MRL U

Run QC on sample R2410726-002 for 1633final/PFAS

Special Instructions/Comments NPDES H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 ☒ STANDARD Requested FAX Date: _____ Requested Report Date: 11/08/24	Report Requirements I. Results Only ☒ II. Results + QC Summaries III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data PQL/MDL/J EDD ☒ Y Y	Invoice Information PO# 58R2410726 Bill to
	Basic - WQCL-Cano-SuR NYSDEC EQUIS v5.0-MRL 10/25/24 1400 4.8C Airbill Number:		

Relinquished By: Randy Dine Received By: 10/24/24 1522



November 20, 2024

Service Request No:R2411758

Mr. Jon Brandes
On-Site Geological Services
72 Railroad Avenue
Wellsville, NY 14895

Laboratory Results for: WAL - Semiannual Sampling

Dear Mr.Brandes,

Enclosed are the results of the sample(s) submitted to our laboratory November 15, 2024
For your reference, these analyses have been assigned our service request number **R2411758**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7476. You may also contact me via email at Chris.Leavy@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Christopher Leavy
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2411758
Date Received: 11/15/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 11/15/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by 

Date 11/20/2024



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: WAL2-1124			Lab ID: R2411758-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
Barium, Total	33	B	3	20	ug/L	6010D
Calcium, Total	51700		300	1000	ug/L	6010D
Copper, Total	5	J	4	20	ug/L	6010D
Iron, Total	870		70	100	ug/L	6010D
Magnesium, Total	17800		30	1000	ug/L	6010D
Manganese, Total	934		4	10	ug/L	6010D
Nickel, Total	12	J	3	40	ug/L	6010D
Potassium, Total	2000	J	400	2000	ug/L	6010D
Sodium, Total	38400		300	1000	ug/L	6010D
Zinc, Total	13	J	3	20	ug/L	6010D



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling

Service Request:R2411758

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2411758-001	WAL2-1124	11/14/2024	1310



ALS-Environmental
1565 Jefferson Rd, Bldg 300, Suite 360
Rochester, NY 14623
585.288.5380

Client: On-Site

72 Railroad Ave.
Wellsville, NY 14895

Project Manager
Jon Brandes

CHAIN of CUSTODY

Project: WAL - Semiannual Sampling

Telephone No.
585-593-1824

Email: jonb@on-sitehs.com

Page 1 of 1

Method of Shipment

UPS

Special Detection
Limit/Reporting

Sample I.D.

Lab Sample No.

No. of Containers

Soil

Water

Air

Other

Yes

No

Sampling Date

Sampling Time

VOCs EPA 8260 (HCL)

VOCs EPA 524.2 (Na2S2O3+HCL)

T-Metals (HNO3)

TDS, NO3 (NP) (Manhole)

PFAS 1633 (NP)

1,4 Dioxane 8270 (NP)

WAL2-124

1

1

1

11/14/24

1310

1

R
E
M
A
R
K
S

Sample Received Intact: Yes No

Temperature received: Ice No ice

Relinquished by sampler (Sign & Print Name)

Jon Brandes / Jonathan E Brandes

Date Time

11/14/24 1330

Received by (Sign & Print Name)

Abbie Austin 11/15/24 955

Relinquished by

Date Time

Received by

Relinquished by

Date Time

Received by

Relinquished by

Date Time

Received by laboratory

Date Time

Lab Work No.

R2411758

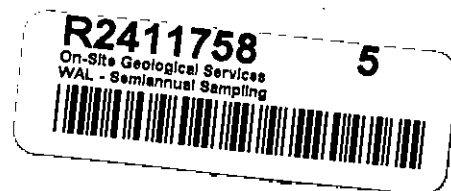
On-Site Geological Services
WAL - Semiannual Sampling



5



Cooler Receipt and Preservation Check Form



Project/Client On-Site Folder Number _____

Cooler received on 11/15/24 by: AA COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y ☒	N ☐	5a	Did VOA vials have sig* bubbles?	Y ☐	N ☒
2	Custody papers properly completed (ink, signed)?	Y ☒	N ☐	5b	Sig* bubbles: Alk? Y ☐ N ☒	Sulfide? Y ☐ N ☒	
3	Did all bottles arrive in good condition (unbroken)?	Y ☒	N ☐	6	Where did the bottles originate? <u>ALS/ROC</u> CLIENT		
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present? Y ☒ N ☐			7	Soil VOA received as: Bulk Encore 5035set <u>NA</u>		

8. Temperature Readings Date: 11/15/24 Time: 1014 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Temp (°C)	<u>5.1</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed (described below) _____ Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location: SMO by AA on 11/15 at 1015
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 11/15/24 Time: 1327 by: SES

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Were dissolved metals filtered in the field? YES NO N/A
14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized _____ Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>0210322</u>	HNO ₃	☒		<u>24005567</u>	<u>9/25</u>				
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day.					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis.
 Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 072924-2AES

Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES

*significant air bubbles: VOA > 5-6 mm ; WC > 1 in. diameter



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Texas ID#T104704581
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory. To verify NH accredited analytes, go to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx>.

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling/

Service Request: R2411758

Sample Name: WAL2-1124
Lab Code: R2411758-001
Sample Matrix: Water

Date Collected: 11/14/24
Date Received: 11/15/24

Analysis Method
6010D

Extracted/Digested By
CDISTEFANO

Analyzed By
NMANSEN



PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

INORGANIC

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C or 6010D	3005A/3010A
6020A or 6020B	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-N-2016 Amenable and Residual Cyanide	SM 4500-CN-G and SM 4500-CN-B,C-2016
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C or 6010D	3050B
6020A or 6020B	3050B
6010C or 6010D TCLP (1311) extract	3005A/3010A
6010C or 6010D SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

ORGANIC

Preparation Methods for Organic methods are listed in the header of the Results pages.

Regarding "Bulk/5035A":

For soil/solid samples submitted in soil jars for Volatiles analysis, the prep method is listed as "Bulk/5035A". The lab follows the closed-system EPA 5035A protocols once the sample is transferred to a sealed vial, but collection in bulk in soil jars does not follow the collection protocols listed in EPA 5035A. In accordance with the NYSDOH technical notice of October 2012, all results or reporting limits <200 ug/kg are to be considered estimated due to potential low bias.



Sample Results

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: WAL2-1124
Lab Code: R2411758-001

Service Request: R2411758
Date Collected: 11/14/24 13:10
Date Received: 11/15/24 09:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	11/19/24 18:25	11/18/24	
Barium, Total	6010D	33 B	ug/L	20	3	1	11/19/24 18:25	11/18/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	11/19/24 18:25	11/18/24	
Calcium, Total	6010D	51700	ug/L	1000	300	1	11/19/24 18:25	11/18/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	11/19/24 18:25	11/18/24	
Copper, Total	6010D	5 J	ug/L	20	4	1	11/19/24 18:25	11/18/24	
Iron, Total	6010D	870	ug/L	100	70	1	11/19/24 18:25	11/18/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	11/19/24 18:25	11/18/24	
Magnesium, Total	6010D	17800	ug/L	1000	30	1	11/19/24 18:25	11/18/24	
Manganese, Total	6010D	934	ug/L	10	4	1	11/19/24 18:25	11/18/24	
Nickel, Total	6010D	12 J	ug/L	40	3	1	11/19/24 18:25	11/18/24	
Potassium, Total	6010D	2000 J	ug/L	2000	400	1	11/19/24 18:25	11/18/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/19/24 18:25	11/18/24	
Sodium, Total	6010D	38400	ug/L	1000	300	1	11/19/24 18:25	11/18/24	
Zinc, Total	6010D	13 J	ug/L	20	3	1	11/19/24 18:25	11/18/24	



QC Summary Forms

ALS Environmental—Rochester Laboratory

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2411758-MB

Service Request: R2411758
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010D	10 U	ug/L	10	6	1	11/19/24 17:23	11/18/24	
Barium, Total	6010D	6 J	ug/L	20	3	1	11/19/24 17:23	11/18/24	
Cadmium, Total	6010D	5.0 U	ug/L	5.0	0.4	1	11/19/24 17:23	11/18/24	
Calcium, Total	6010D	1000 U	ug/L	1000	300	1	11/19/24 17:23	11/18/24	
Chromium, Total	6010D	10 U	ug/L	10	2	1	11/19/24 17:23	11/18/24	
Copper, Total	6010D	20 U	ug/L	20	4	1	11/19/24 17:23	11/18/24	
Iron, Total	6010D	100 U	ug/L	100	70	1	11/19/24 17:23	11/18/24	
Lead, Total	6010D	5.0 U	ug/L	5.0	3.2	1	11/19/24 17:23	11/18/24	
Magnesium, Total	6010D	30 J	ug/L	1000	30	1	11/19/24 17:23	11/18/24	
Manganese, Total	6010D	10 U	ug/L	10	4	1	11/19/24 17:23	11/18/24	
Nickel, Total	6010D	40 U	ug/L	40	3	1	11/19/24 17:23	11/18/24	
Potassium, Total	6010D	2000 U	ug/L	2000	400	1	11/19/24 17:23	11/18/24	
Selenium, Total	6010D	10 U	ug/L	10	7	1	11/19/24 17:23	11/18/24	
Sodium, Total	6010D	1000 U	ug/L	1000	300	1	11/19/24 17:23	11/18/24	
Zinc, Total	6010D	20 U	ug/L	20	3	1	11/19/24 17:23	11/18/24	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: On-Site Geological Services DPC
Project: WAL - Semiannual Sampling
Sample Matrix: Water

Service Request: R2411758
Date Analyzed: 11/19/24

Duplicate Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample R2411758-LCS					Duplicate Lab Control Sample R2411758-DLCS					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Arsenic, Total	6010D	38	40	95	40	40	100	80-120	5	20
Barium, Total	6010D	1960	2000	98	1960	2000	98	80-120	<1	20
Cadmium, Total	6010D	50.6	50.0	101	50.7	50.0	101	80-120	<1	20
Calcium, Total	6010D	2010	2000	100	2010	2000	101	80-120	<1	20
Chromium, Total	6010D	197	200	99	198	200	99	80-120	<1	20
Copper, Total	6010D	243	250	97	244	250	97	80-120	<1	20
Iron, Total	6010D	995	1000	99	999	1000	100	80-120	<1	20
Lead, Total	6010D	514	500	103	516	500	103	80-120	<1	20
Magnesium, Total	6010D	1940	2000	97	1940	2000	97	80-120	<1	20
Manganese, Total	6010D	472	500	94	474	500	95	80-120	<1	20
Nickel, Total	6010D	497	500	99	499	500	100	80-120	<1	20
Potassium, Total	6010D	18900	20000	95	19000	20000	95	80-120	<1	20
Selenium, Total	6010D	994	1010	98	1010	1010	100	80-120	1	20
Sodium, Total	6010D	18900	20000	94	18900	20000	95	80-120	<1	20
Zinc, Total	6010D	495	500	99	497	500	99	80-120	<1	20

Appendix E

2024 Quarterly Inspections & Maintenance Checklist

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

INSPECTOR: <u>Bradley Matison</u>		DATE: <u>3/29/24</u>	
WEATHER: <u>Sunny</u>		TEMPERATURE: <u>32°F</u>	
AREA	ITEM	ACTION	COMMENTS
Cover System	Seeps	Delineate, sample, evaluate	OK
	Subsidence/ponding	Delineate, fill, & revegetate	OK
	Erosion/Gullies	Determind cause, grade & vegetate	OK
	Slope Stability	Check for erosion, slippage, slope failure	OK
	Vegetation	Check for areas of weak/no vegetation, revegetate	OK
		Mow semiannually	OCT 2023
		Remove scrubs & trees from cover system & drain ways	OK
	Vectors	Check for burrows & backfill with clean soil	OK
Leachate collection and storage system	UST'S	Check leachate levels, check/test leak detection system and auto dialer, check for sediment in bottom of tanks	January, February, & March
	Pump stations	Check pump operation	OK (Pump #1 out for Rebuild)
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments	OK
	Forcemain	Check for leaks	
	Laterals and truck line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-Site
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-Site
Gas venting system		Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property.	Performed by On-Site
	Odors	Check physical condition of vent and screen.	

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

INSPECTOR: <u>Bradley Mattison</u>		DATE: <u>3/29/24</u>	
WEATHER: <u>Sunny</u>		TEMPERATURE: <u>32°F</u>	
AREA	ITEM	ACTION	COMMENTS
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation	OK
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	OK
	Culverts	Check condition and for blockage and erosion	OK
	Detention ponds	Check outlet structure for blockage and general condition.	OK
		Check for situation/silt buildup. Erosion, condition of vegetation and embankment	OK
Groundwater monitoring	Sampling wells	See Section 4	
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-Site
Facility access system	Roads	Check condition. Check for erosion, potholes.	OK
	Access gate	Check condition. Lubricate lock	OK
Other		Comments: <u>Pump #1 In Sump out of service for Rebuild.</u>	

Signed: _____

Bradley J Mattison

Date: _____

3/29/24

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST

WELLSVILLE/ANDOVER LANDFILL SITE

NYSDC SITE NO. 9-02-004

INSPECTOR: *Bradley J. Whitson*

DATE: *6/28/24*

WEATHER: *Sunny*

TEMPERATURE: *82°*

AREA	ITEM	ACTION	COMMENTS
Cover System	Seeps	Delineate, sample, evaluate	<i>OK</i>
	Subsidence/ponding	Delineate, fill, & revegetate	<i>OK</i>
	Erosion/Gullies	Determind cause, grade & vegetate	<i>OK</i>
	Slope Stability	Check for erosion, slippage, slope failure	<i>OK</i>
	Vegetation	Check for areas of weak/no vegetation, revegetate	<i>OK</i>
		Mow semiannually	<i>OCT 2023</i>
		Remove scrubs & trees from cover system & drain ways	<i>OK</i>
	Vectors	Check for burrows & backfill with clean soil	<i>OK</i>
Leachate collection and storage system	UST'S	Check leachate levels, check/test leak detection system and auto dialer, check for sediment in bottom of tanks	April, May, & June
		Pump stations	<i>OK</i>
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments	<i>OK</i>
	Forcemain	Check for leaks	<i>OK</i>
	Laterals and truck line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-Site
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-Site
Gas venting system		Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property.	Performed by On-Site
	Odors	Check physical condition of vent and screen.	

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

INSPECTOR: <u>Bradley MATISON</u>		DATE: <u>6/28/2024</u>	
WEATHER: <u>Sunny</u>		TEMPERATURE: <u>82°</u>	
AREA	ITEM	ACTION	COMMENTS
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation	OK
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	OK
	Culverts	Check condition and for blockage and erosion	OK
	Detention ponds	Check outlet structure for blockage and general condition.	OK
		Check for situation/silt buildup. Erosion, condition of vegetation and embankment	OK
Groundwater monitoring	Sampling wells	See Section 4	
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-Site
Facility access system	Roads	Check condition. Check for erosion, potholes.	OK
	Access gate	Check condition. Lubricate lock	OK
Other		Comments: <u>Rebuilt Pump for wet well Received from Siewert Equipment</u>	

Signed: _____

Bradley J Matison

Date: _____

6/28/2024

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST

WELLSVILLE/ANDOVER LANDFILL SITE

NYSDEC SITE NO. 9-02-004

INSPECTOR: Bradley S. Maurer

DATE: 9/26/24

WEATHER: Sunny

TEMPERATURE: 72°

AREA	ITEM	ACTION	COMMENTS
Cover System	Seeps	Delineate, sample, evaluate	OK
	Subsidence/ponding	Delineate, fill, & revegetate	OK
	Erosion/Gullies	Determind cause, grade & vegetate	OK
	Slope Stability	Check for erosion, slippage, slope failure	OK
	Vegetation	Check for areas of weak/no vegetation, revegetate	OK
		Mow semiannually	OCT 23
		Remove scrubs & trees from cover system & drain ways	OK
	Vectors	Check for burrows & backfill with clean soil	OK
Leachate collection and storage system	UST'S	Check leachate levels, check/test leak detection system and auto dialer, check for sediment in bottom of tanks	July, August & September
		Pump stations	OK
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments	OK
	Forcemain	Check for leaks	
	Laterals and truck line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-Site
		Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-Site
	Groundwater cutoff manholes		
Gas venting system		Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property.	Performed by On-Site
	Odors	Check physical condition of vent and screen.	

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

INSPECTOR: <u>Bradley J. Matison</u>		DATE: <u>9/26/24</u>	
WEATHER: <u>Sunny</u>		TEMPERATURE: <u>72°</u>	
AREA	ITEM	ACTION	COMMENTS
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation	OK
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	OK
	Culverts	Check condition and for blockage and erosion	OK
	Detention ponds	Check outlet structure for blockage and general condition.	OK
		Check for situation/silt buildup. Erosion, condition of vegetation and embankment	OK
Groundwater monitoring	Sampling wells	See Section 4	
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-Site
Facility access system	Roads	Check condition. Check for erosion, potholes.	OK
	Access gate	Check condition. Lubricate lock	OK
Other		Comments:	

Signed: Bradley J. Matison

Date: 9/26/24

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

INSPECTOR: BRAD MATISON

DATE: 12/30/24

WEATHER: Light Snow

TEMPERATURE: 38°

AREA	ITEM	ACTION	COMMENTS
Cover System	Seeps	Delineate, sample, evaluate	OK
	Subsidence/ponding	Delineate, fill, & revegetate	OK
	Erosion/Gullies	Determine cause, grade & revegetate	OK
	Slope Stability	Check for erosion, slippage, slope failure	OK
	Vegetation	Check for areas of weak/no vegetation, revegetate	OK
		Mow semiannually	OCT 24
		Remove scrubs & trees from cover system & drain ways	OK
	Vectors	Check for burrows & backfill with clean soil	Backfilled Vent 4, 9, 14, 16, 11, 17 1/2 PZ-2
Leachate collection and storage system	UST'S	Check leachate levels, check/test leak detection system and auto dialer, check for sediment in bottom of tanks	October, November & December
	Pump stations	Check pump operation	Replaced Pump #2
		Check float operation. Perform manufacturer's recommended maintenance. Operate/cycle valves. Check sump for floating debris and sediments	OK
	Forcemain	Check for leaks	
	Laterals and truck line	Check for and record VOCs at each manhole and cleanout; check for line blockage visually; lubricate locks.	Performed by On-Site
	Groundwater cutoff manholes	Collect and analyze sample of liquid in cutoff trench. Note which line (surface drainage or LCS) is plugged.	Performed by On-Site
Gas venting system		Check for and record VOCs and methane (explosimeter) upwind, at each vent, and at perimeter of property.	Performed by On-Site
	Odors	Check physical condition of vent and screen.	

QUARTERLY INSPECTION AND MAINTENANCE CHECKLIST
WELLSVILLE/ANDOVER LANDFILL SITE
NYSDEC SITE NO. 9-02-004

INSPECTOR: <u>BRAD MATISON</u>		DATE: <u>12/30/24</u>	
WEATHER: <u>Light Snow</u>		TEMPERATURE: <u>38°</u>	
AREA	ITEM	ACTION	COMMENTS
Stormwater system	Ditches and swales	Check for pooling, erosion, excessive vegetation, and weak vegetation	OK
	Cover system drainage	Check for cover soils that are excessively wet, slope failure without evidence of fill subsidence. Check condition of geocomposite drainage layer at cover perimeter.	OK
	Culverts	Check condition and for blockage and erosion	OK
	Detention ponds	Check outlet structure for blockage and general condition.	OK
		Check for situation/silt buildup. Erosion, condition of vegetation and embankment	OK
Groundwater monitoring	Sampling wells	See Section 4	
		Check condition of caps, locks, surface seals, and markings. Lubricate locks.	Performed by On-Site
Facility access system	Roads	Check condition. Check for erosion, potholes.	OK
	Access gate	Check condition. Lubricate lock	OK
Other		Comments: ① Replaced Pump #2 In wet well ② Replaced Level Monitor for Leachate Tank @ Pump House ③ Backfilled woodchuck holes @ Vents, 4, 9, 11, 14, 16, 17 & PZ-2	

Signed: _____

Date: _____

LEACHATE HAULING 2024			
MONTH		Loads	Sludge from monthly report TONS
January	260,000	52	68
February	175,000	35	54
March	265,000	53	78
April	270,000	54	78
May	65,000	13	78
June	45,000	9	78
July	20,000	4	66
August	60,000	12	91
September	25,000	5	66
October	20,000	4	75
November	95,000	19	65
December	305,000	61	0
Total	1,605,000	321	797

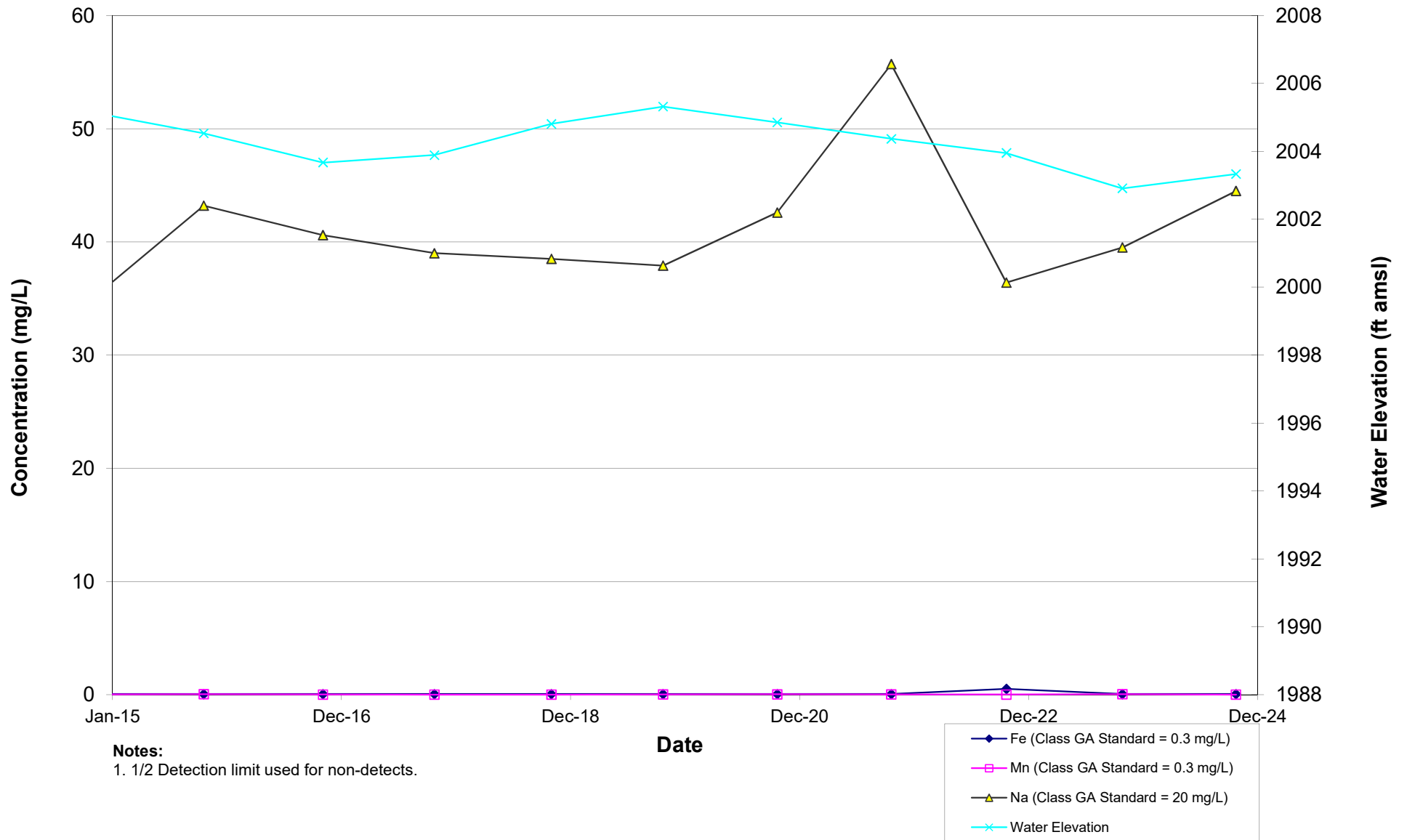
Appendix F

Concentration Time-Trend Graphs

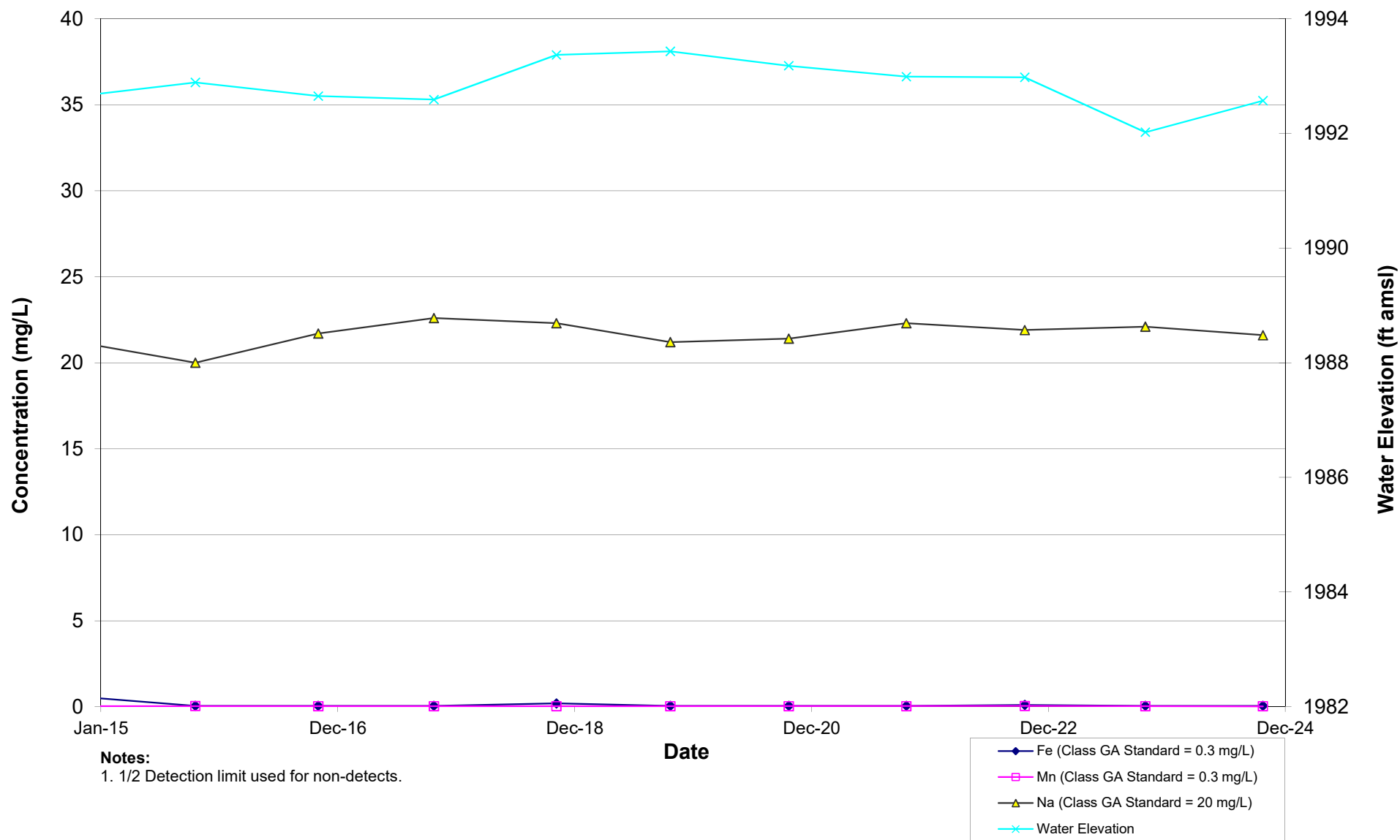
Metals

Groundwater Concentration
Time Trend Plots

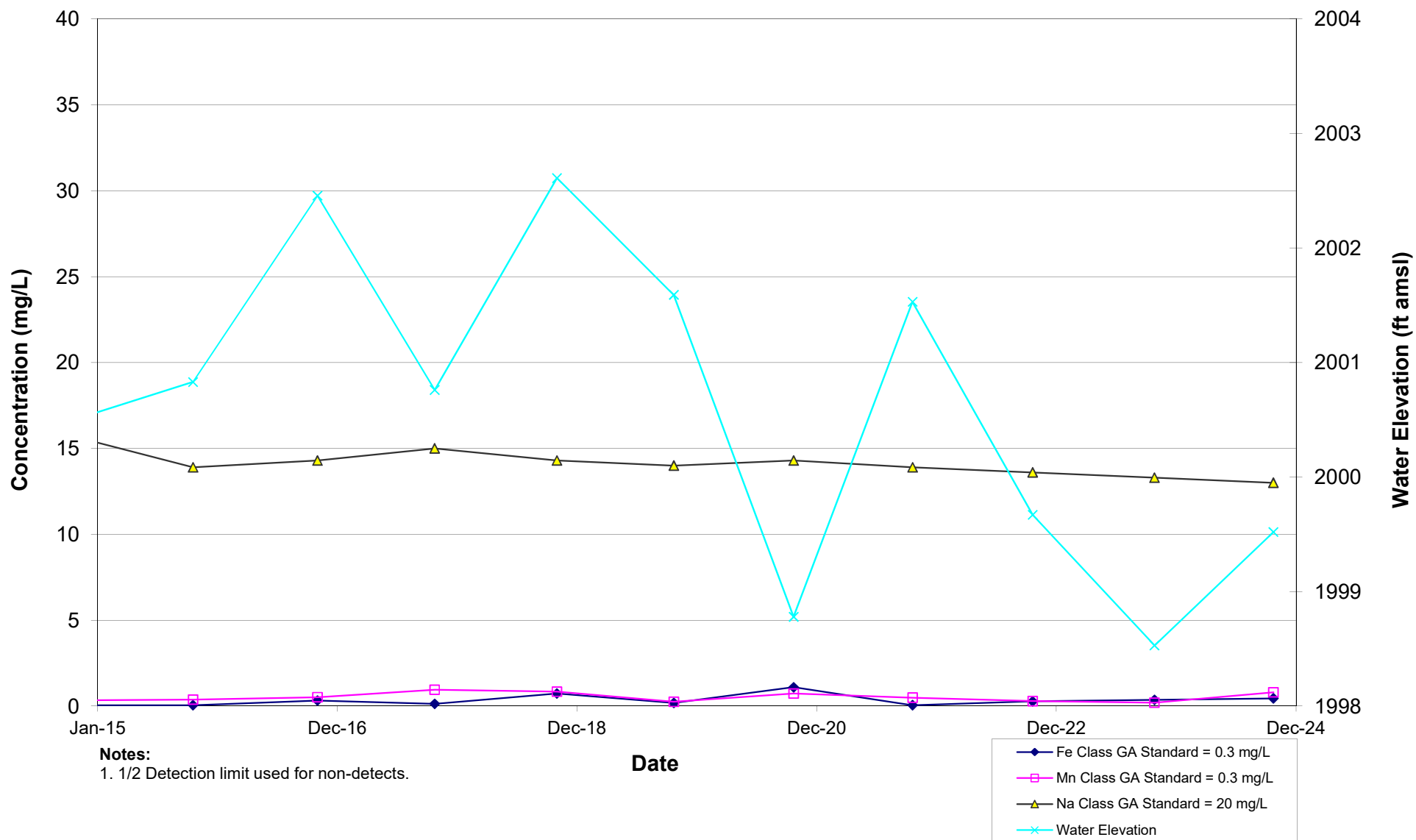
CW-3A Metals



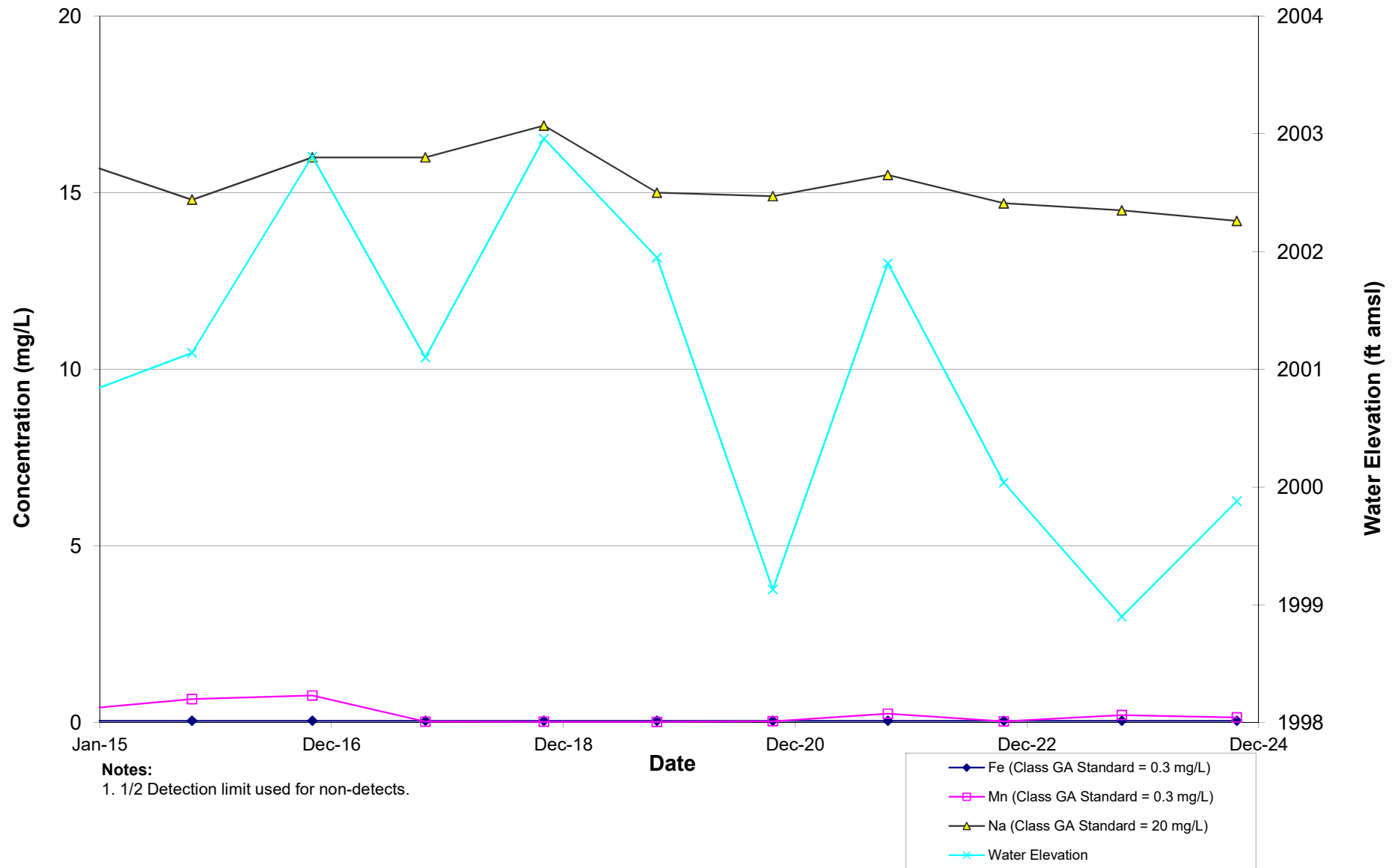
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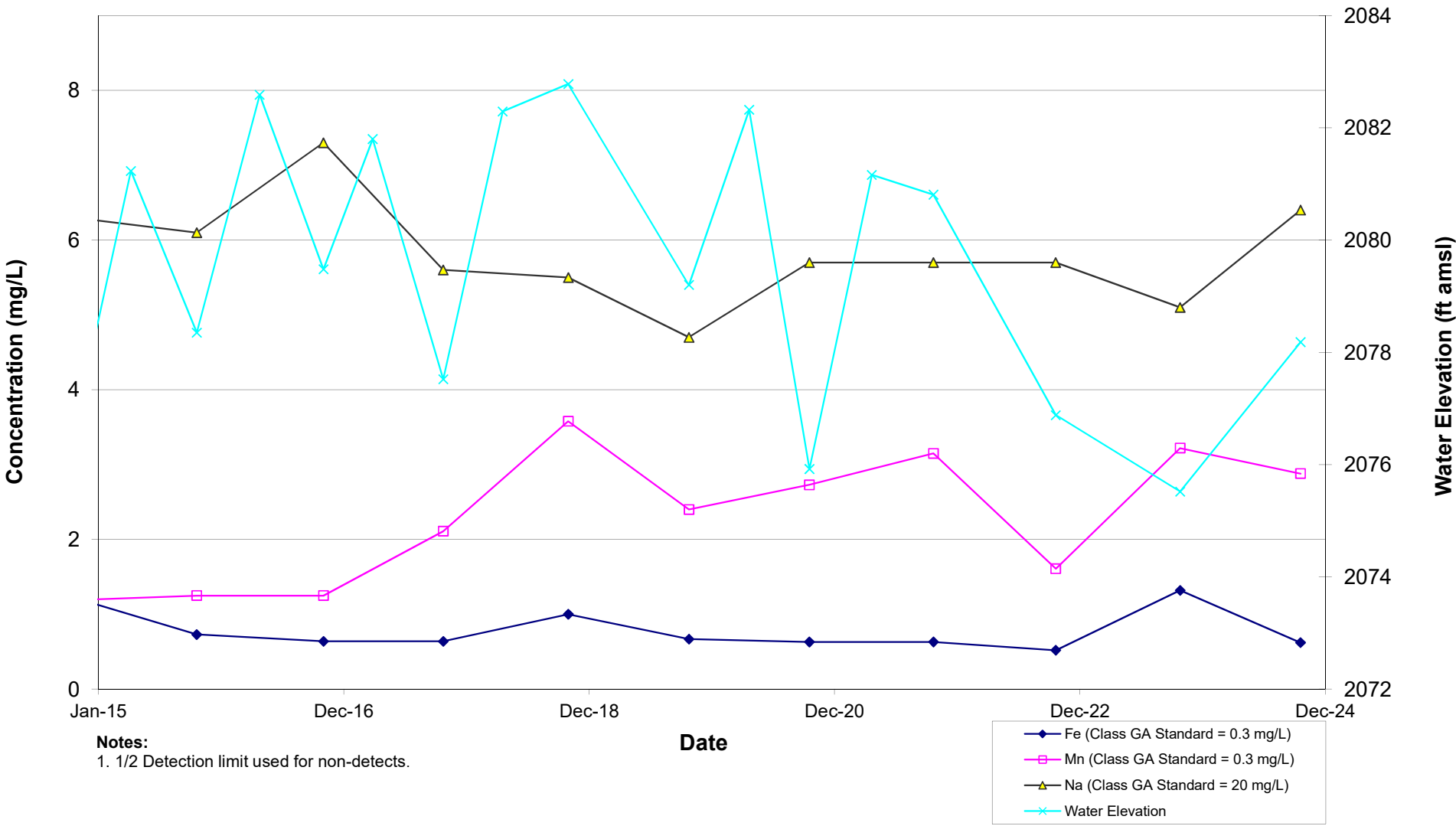
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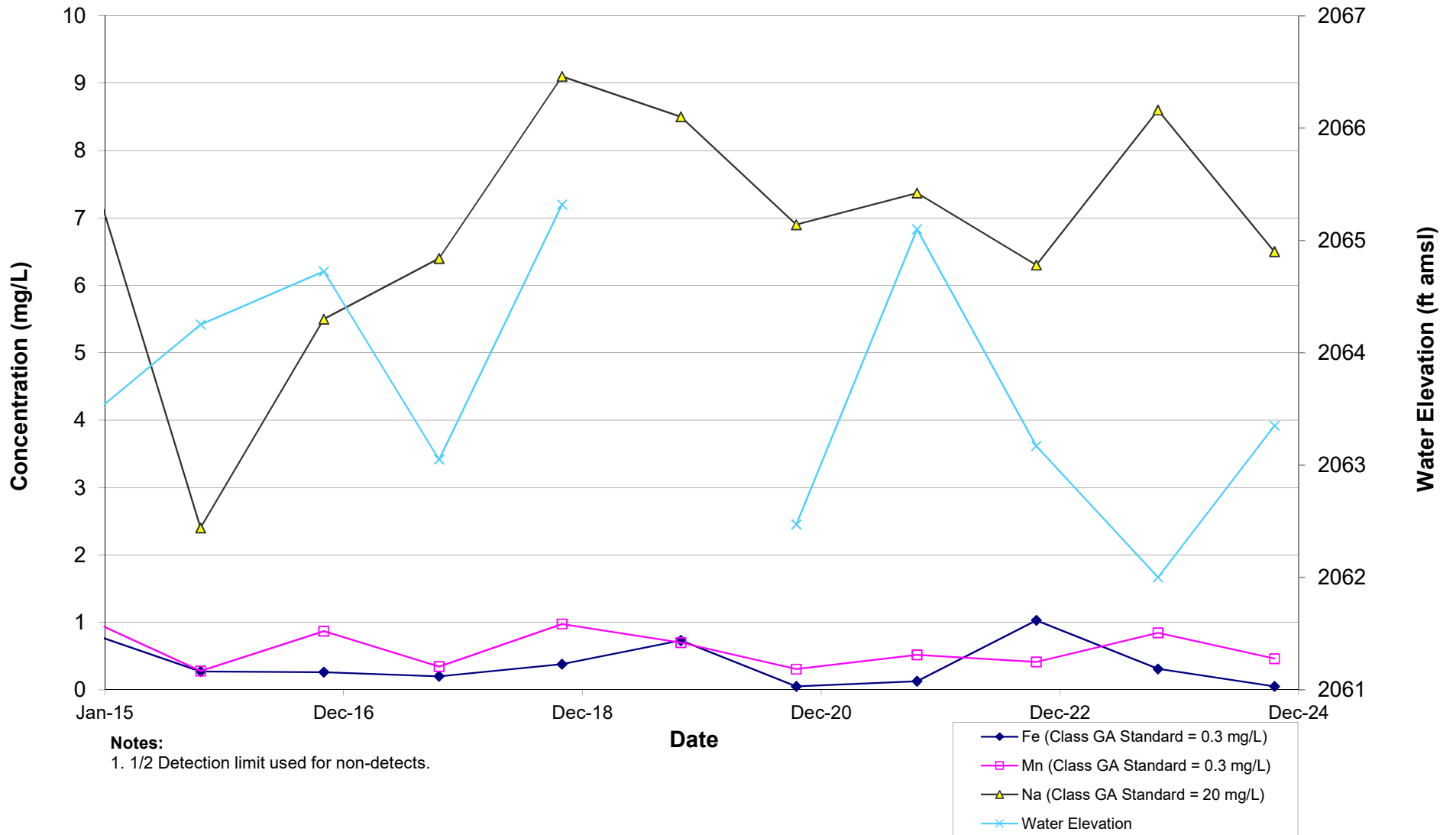
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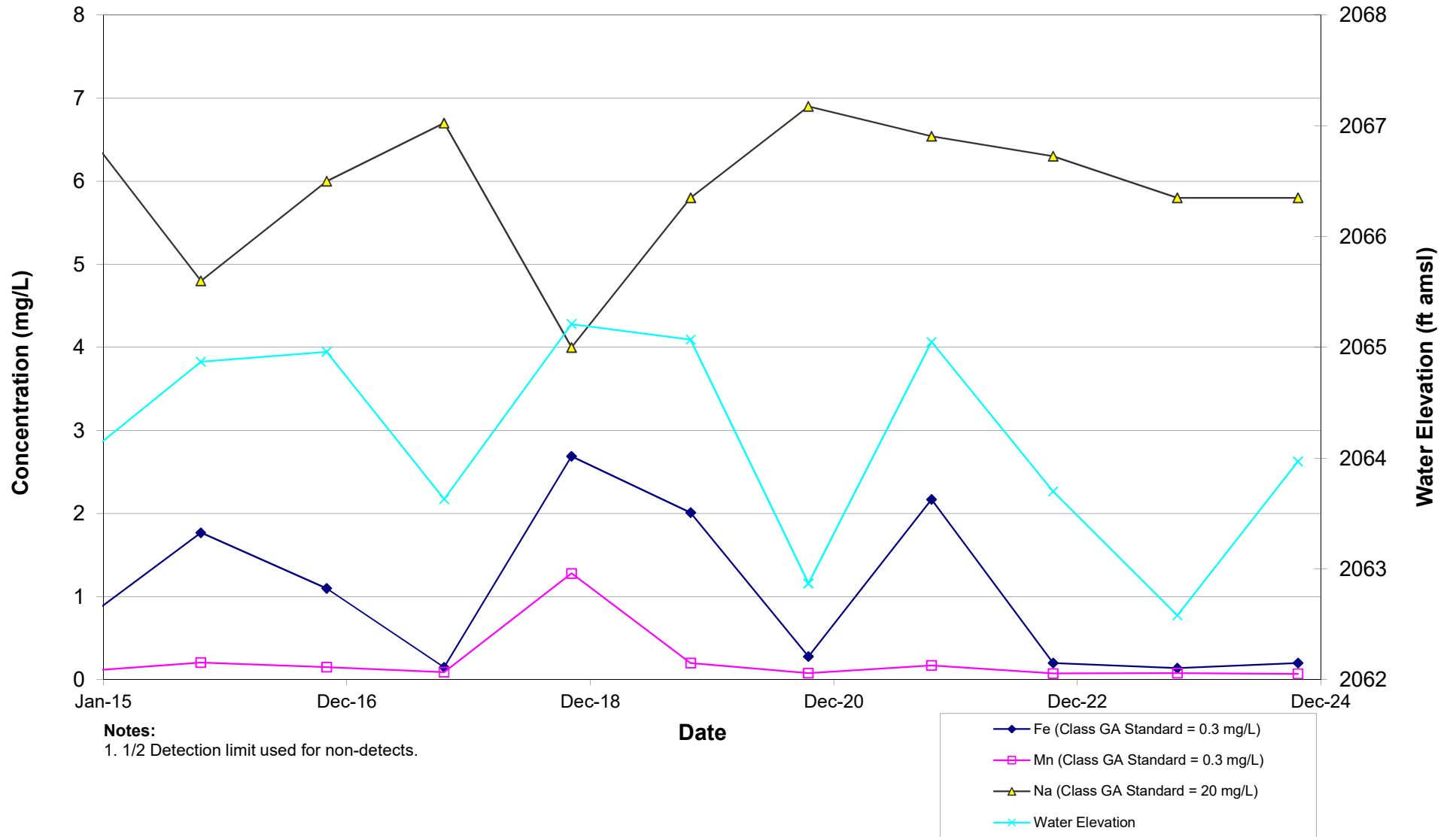
MW-4D Metals



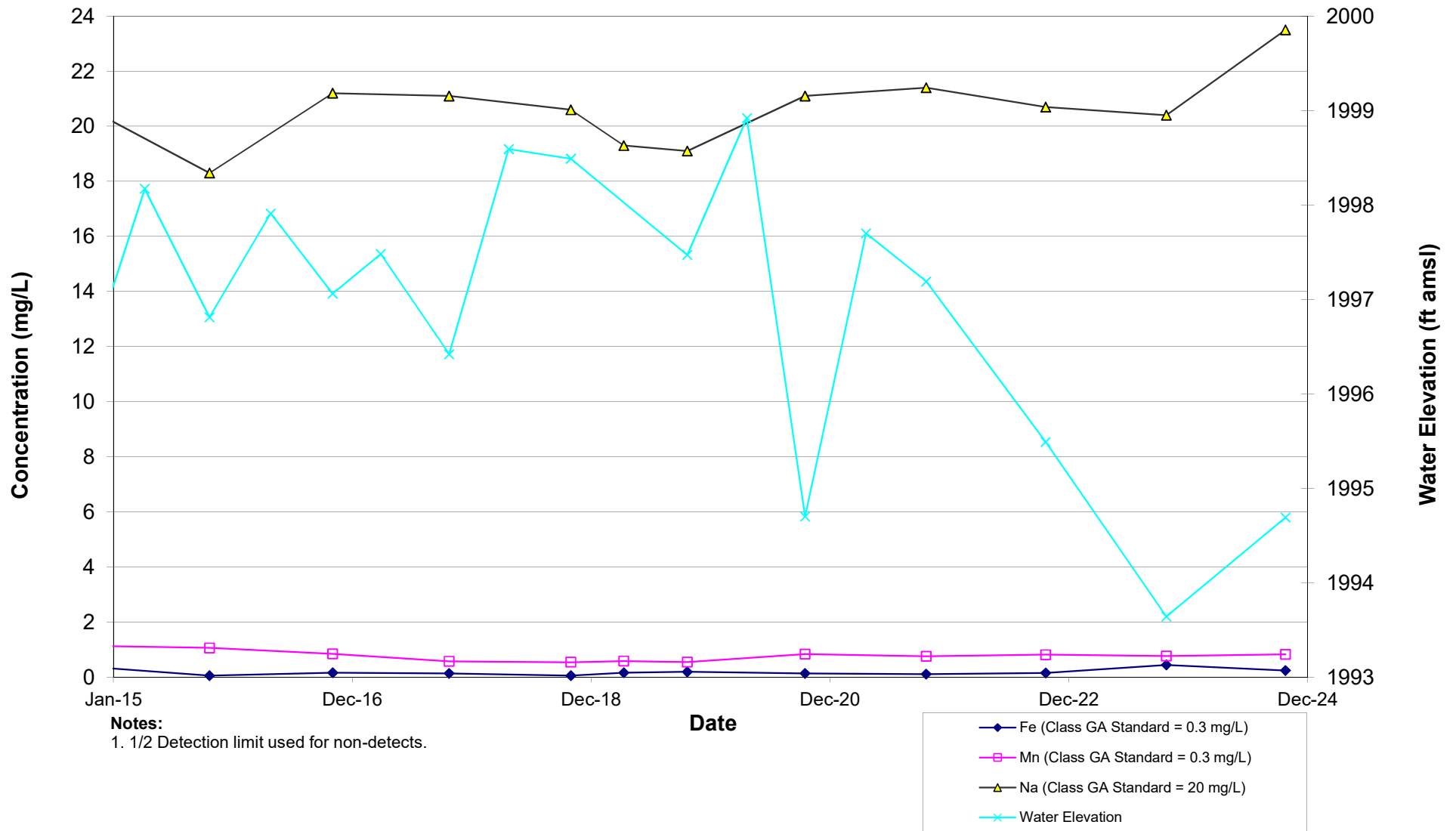
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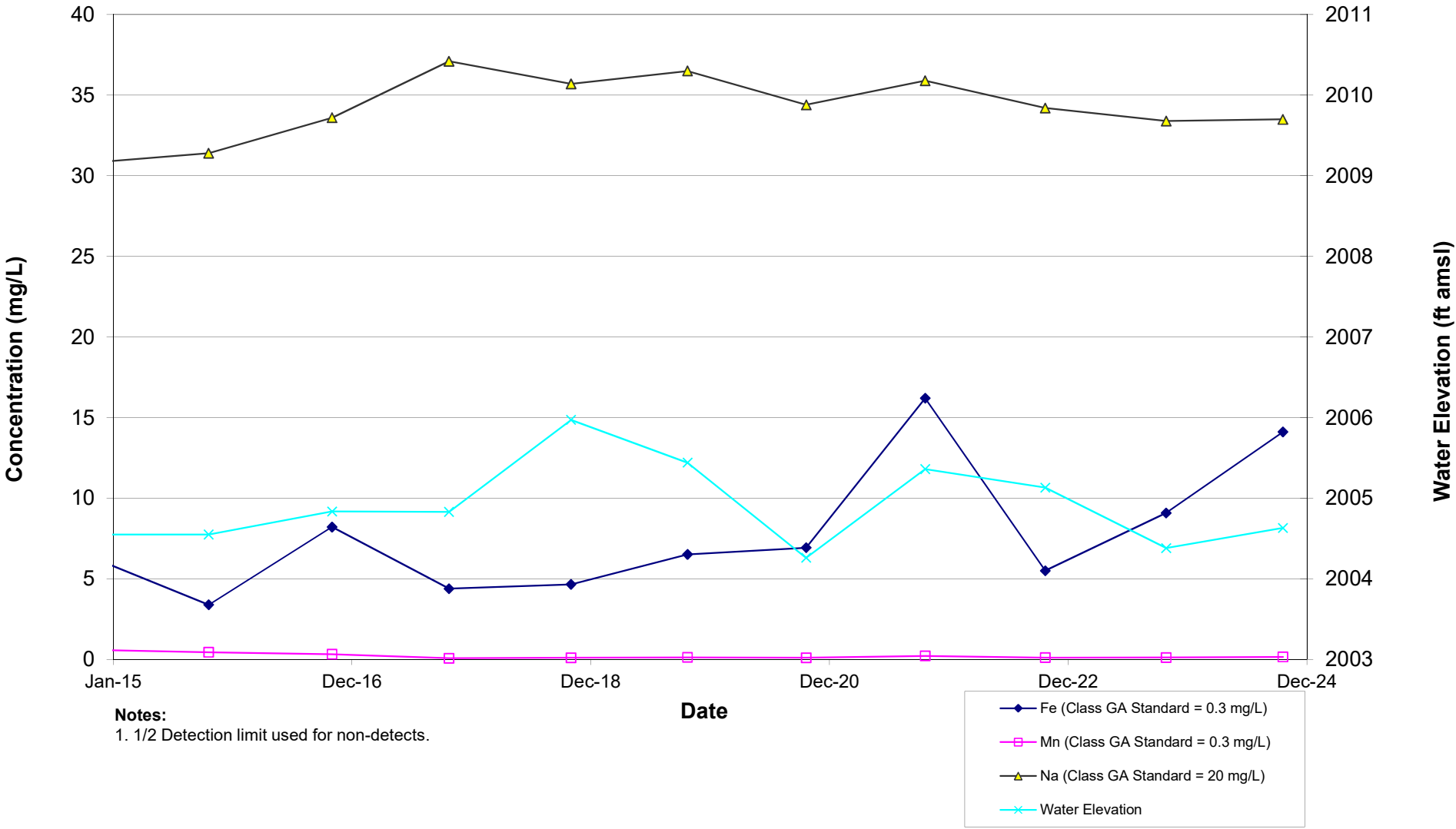
MW-5S Metals



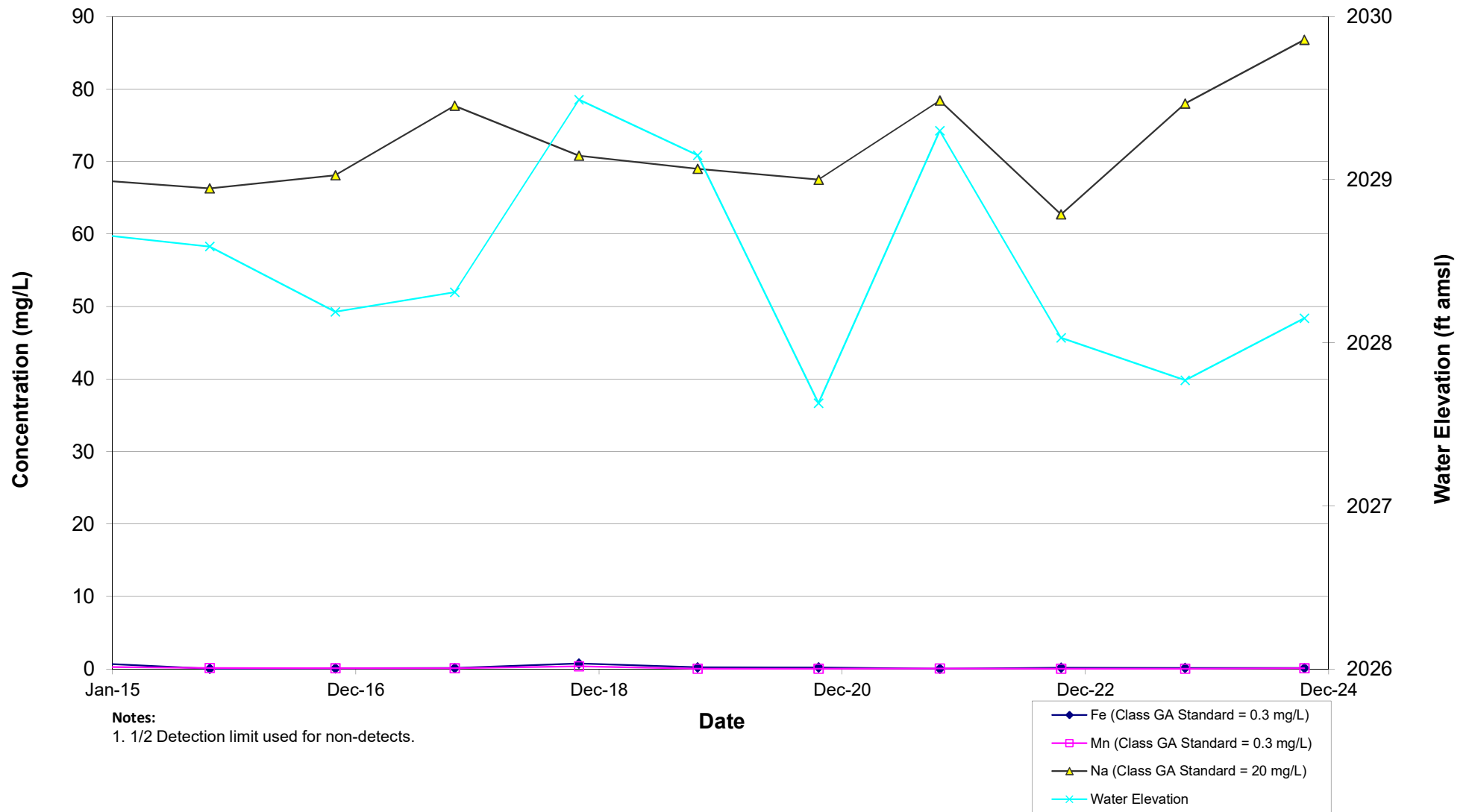
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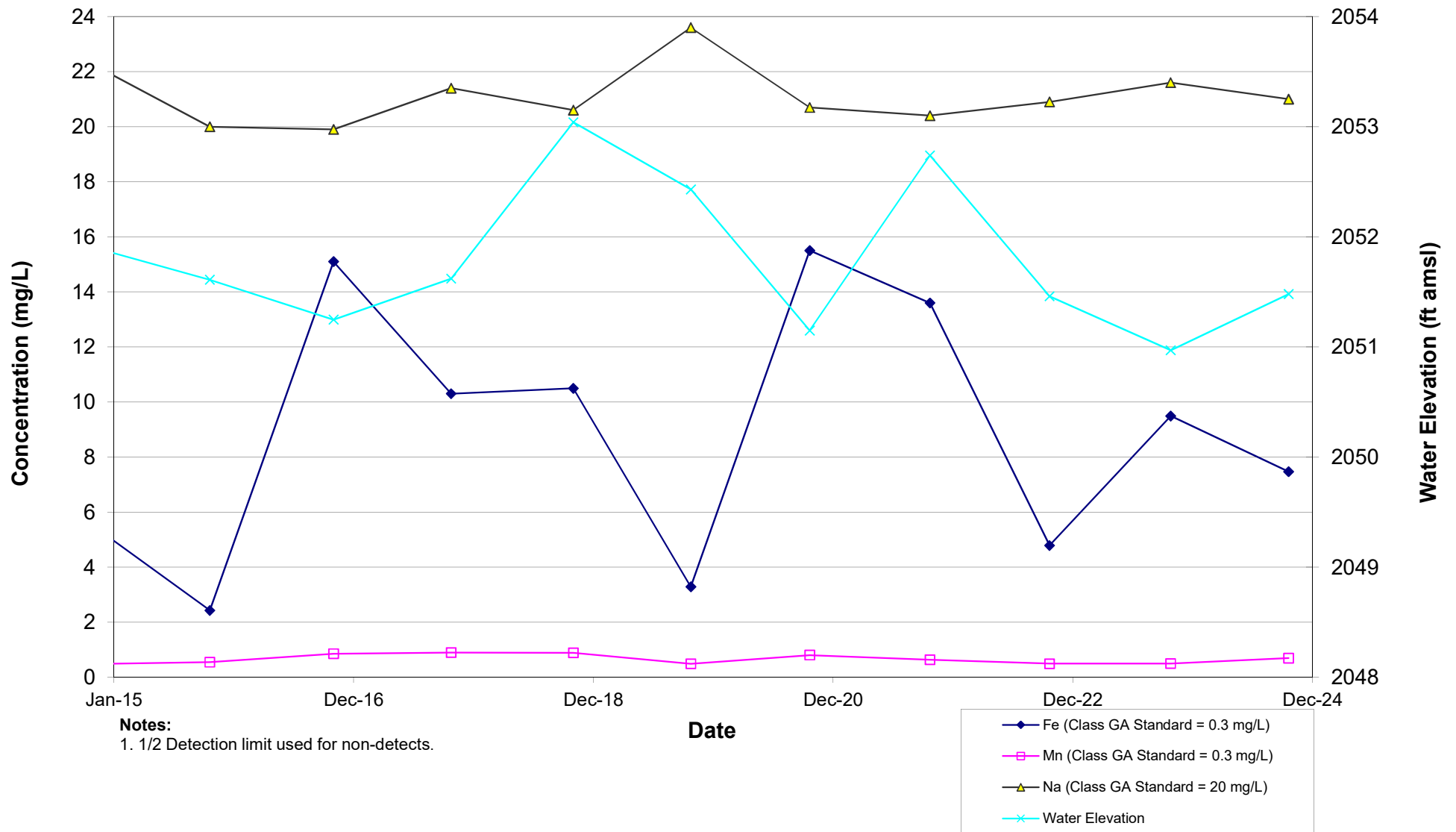
MW-17D Metals



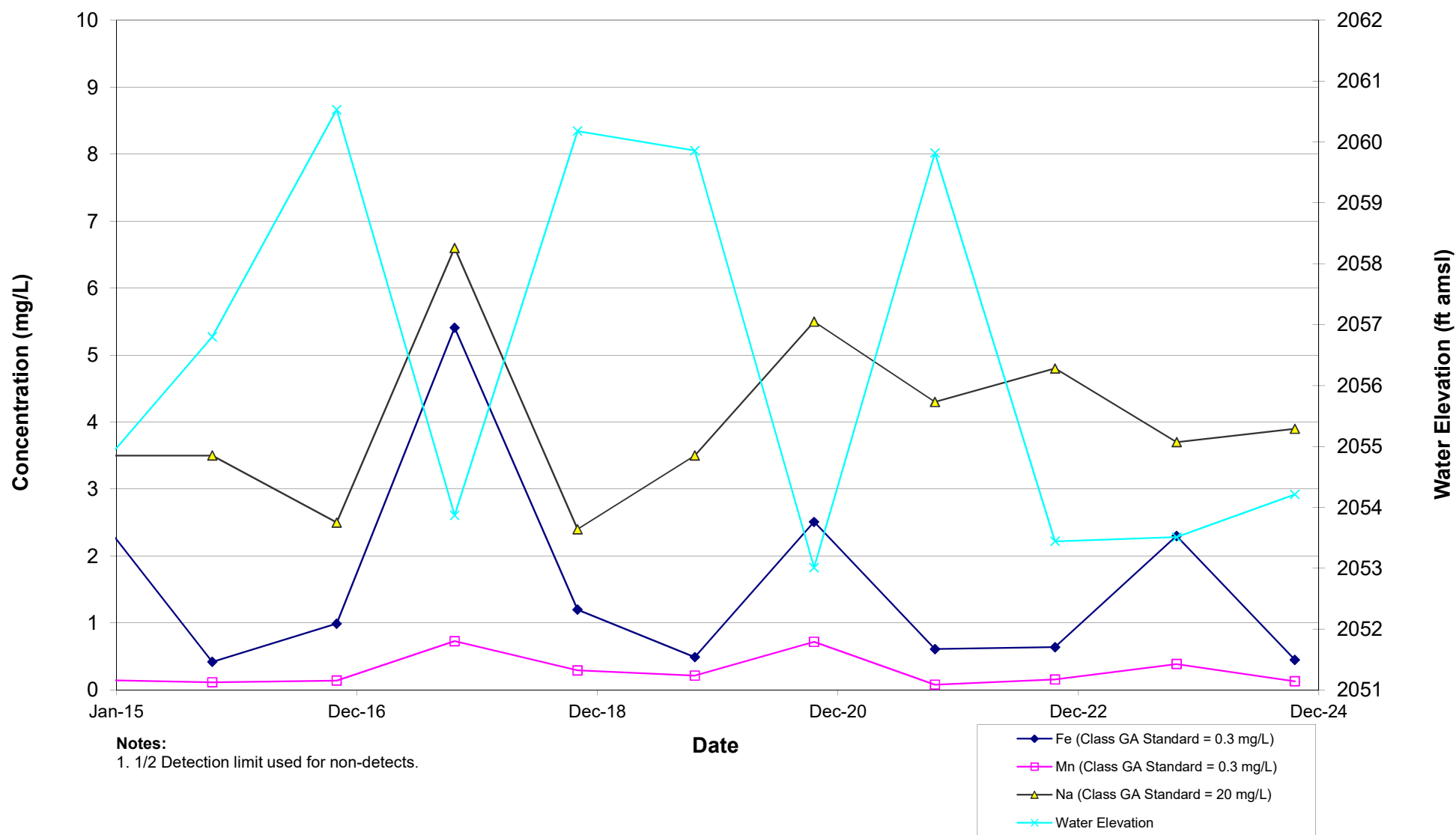
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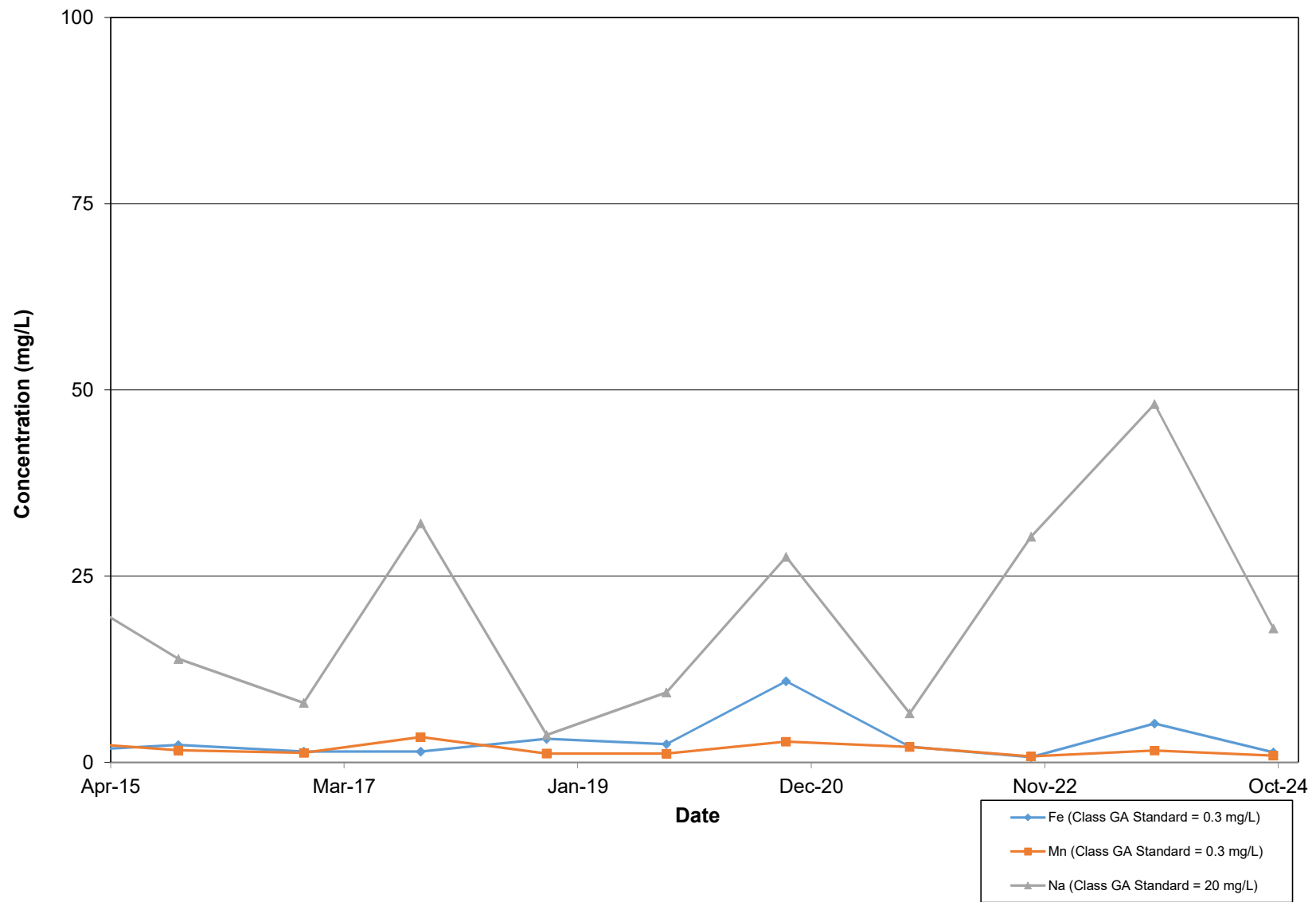
MW-18D Metals



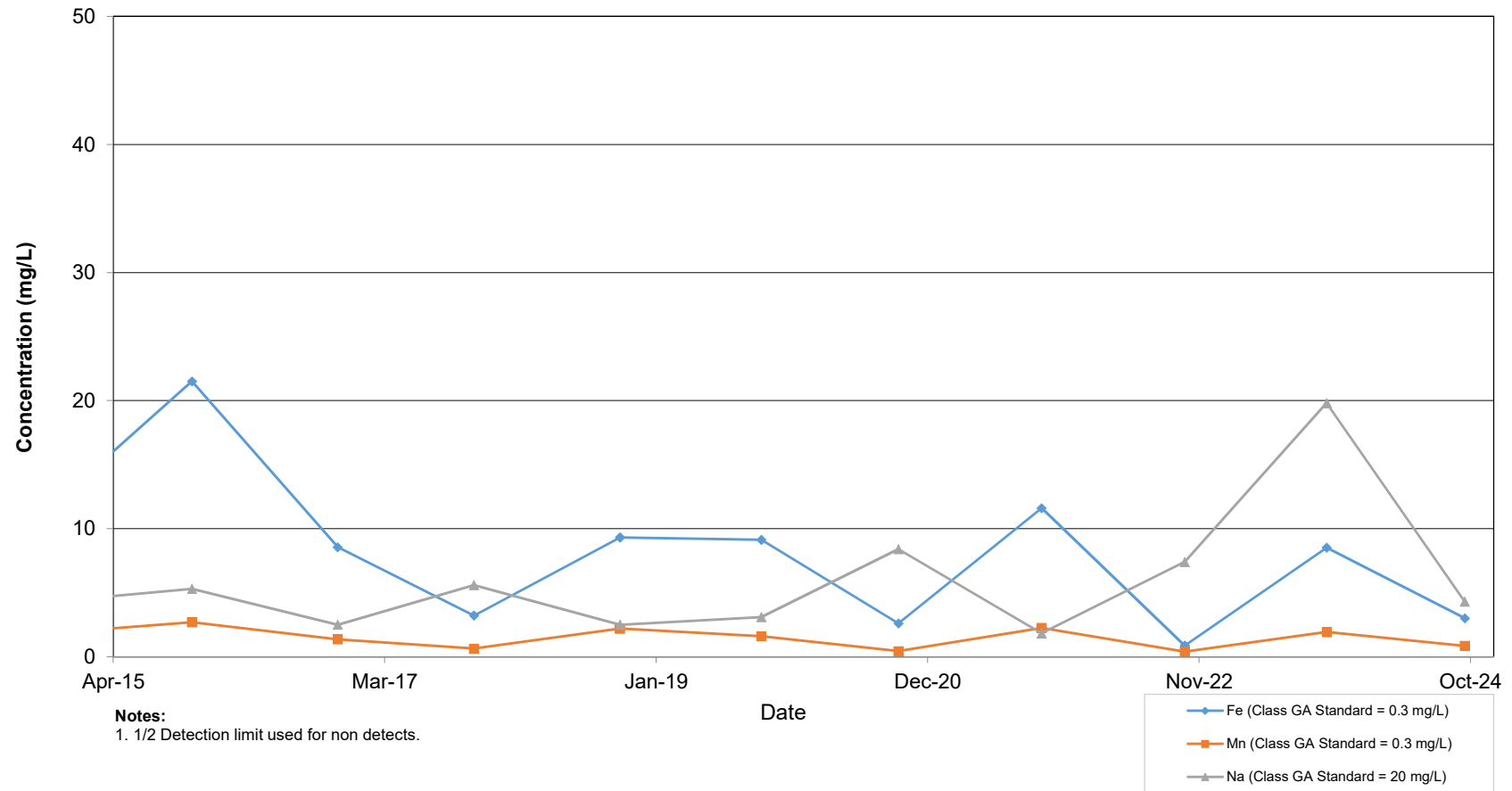
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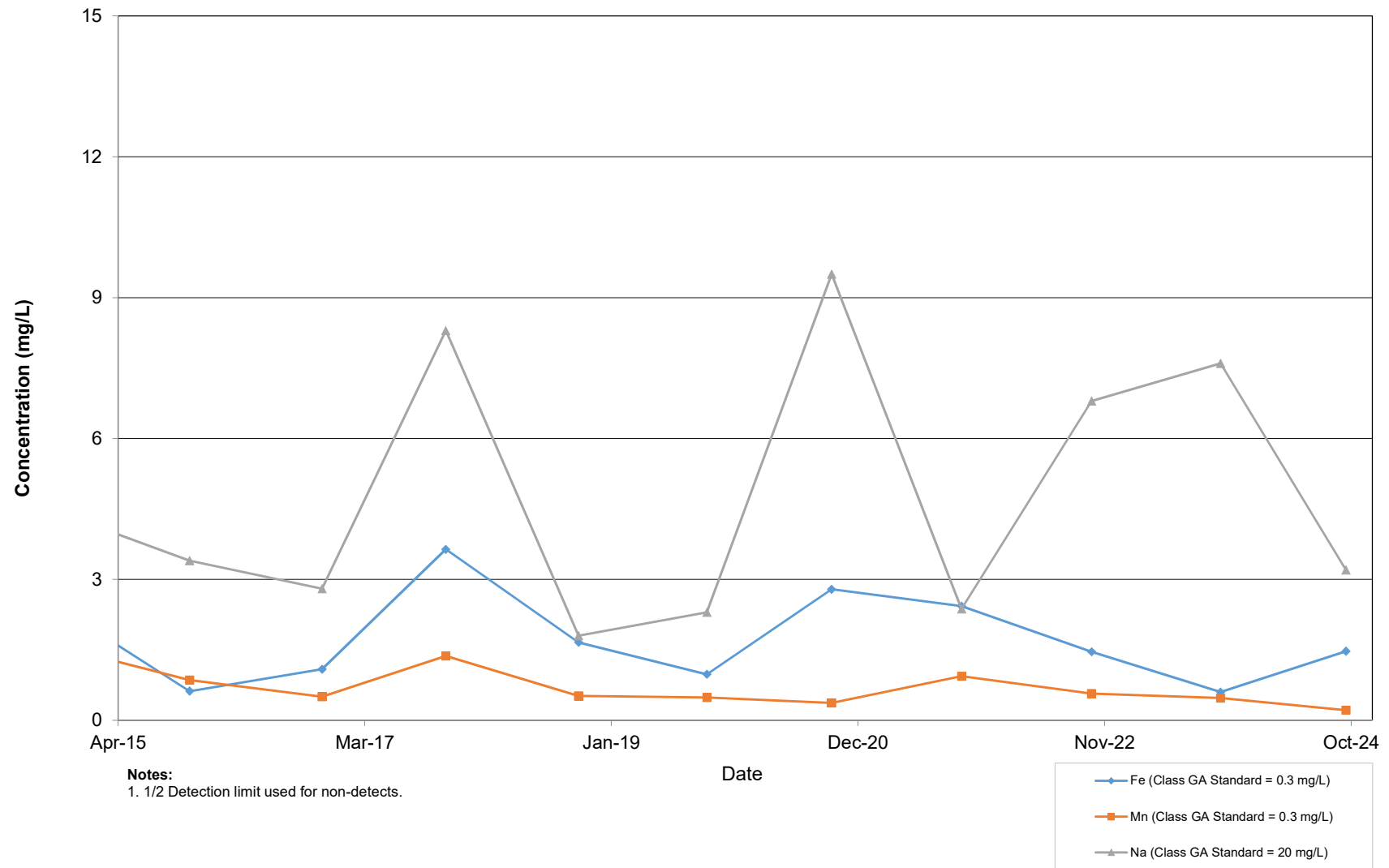
LS-1 Metals



MH-32 Metals



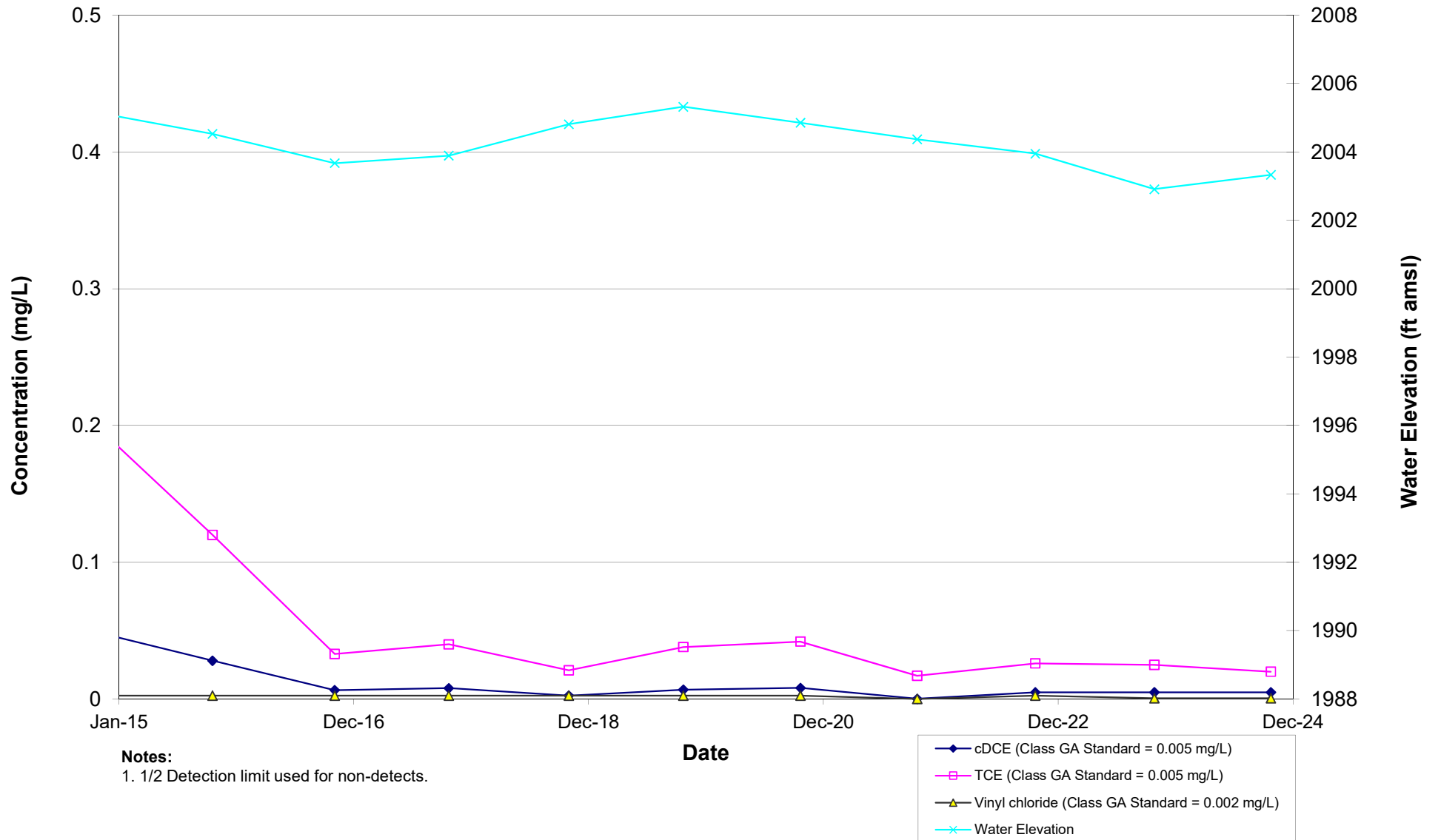
MH-33 Metals



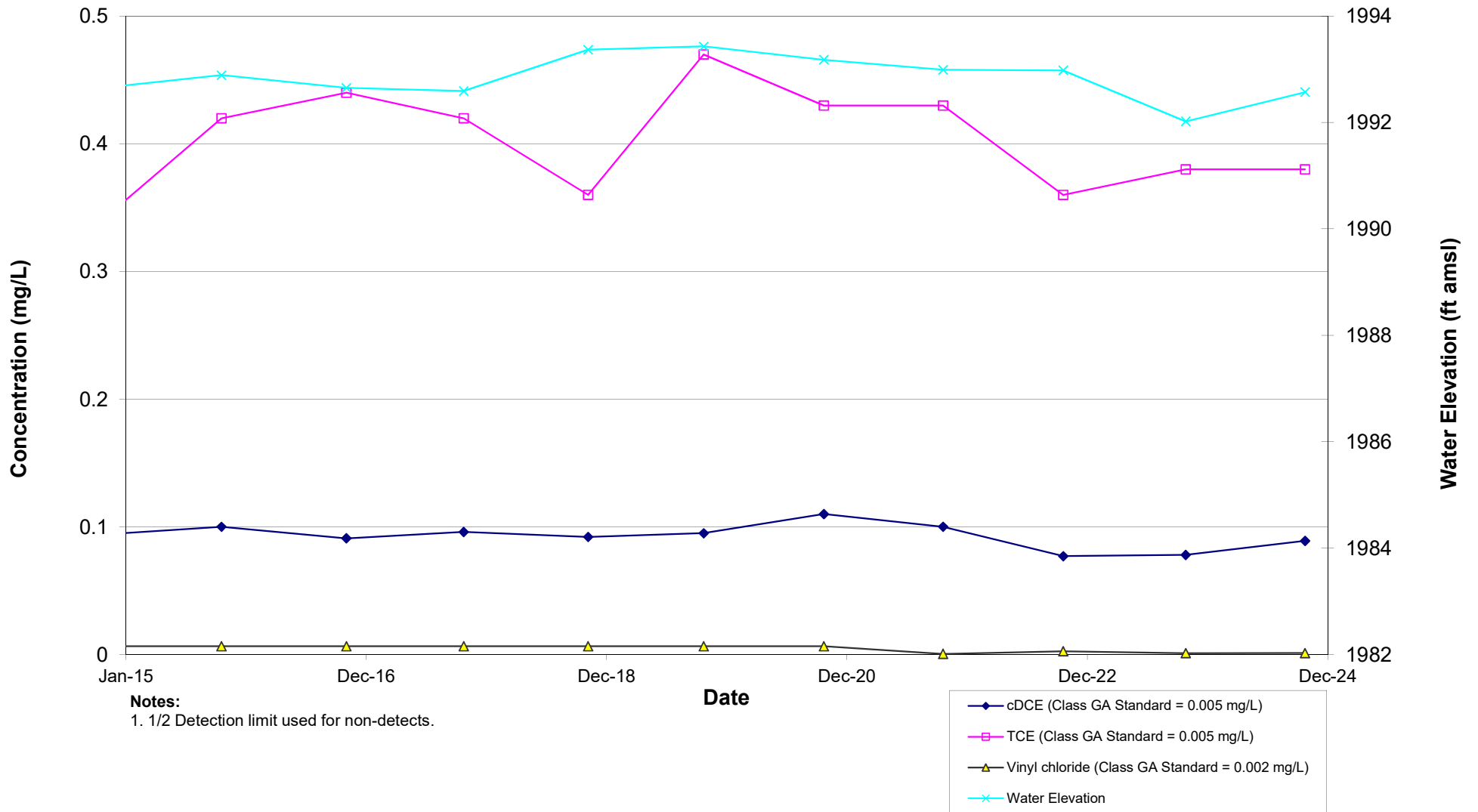
VOC's

Groundwater Concentration
Time Trend Plots

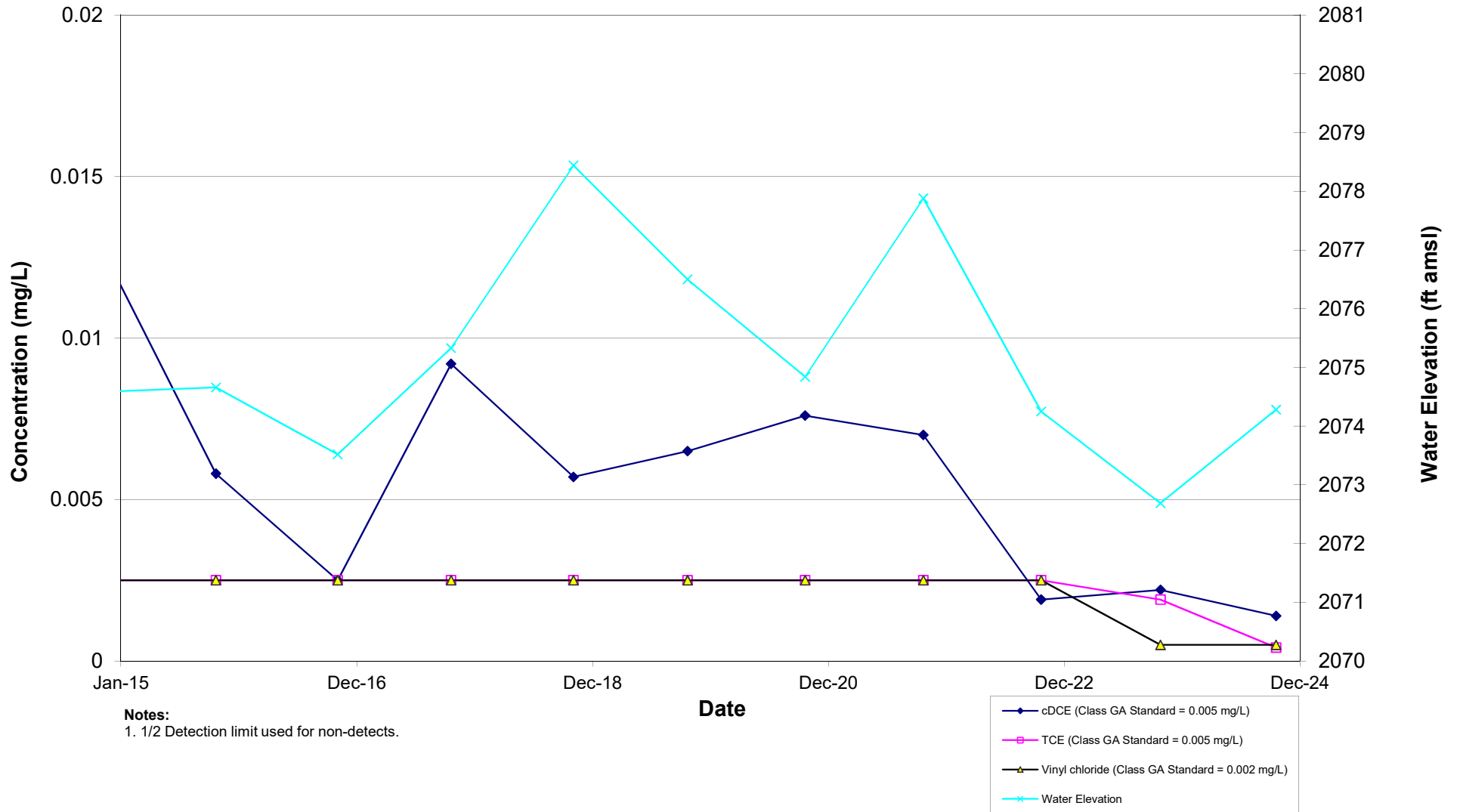
CW-3A VOCs



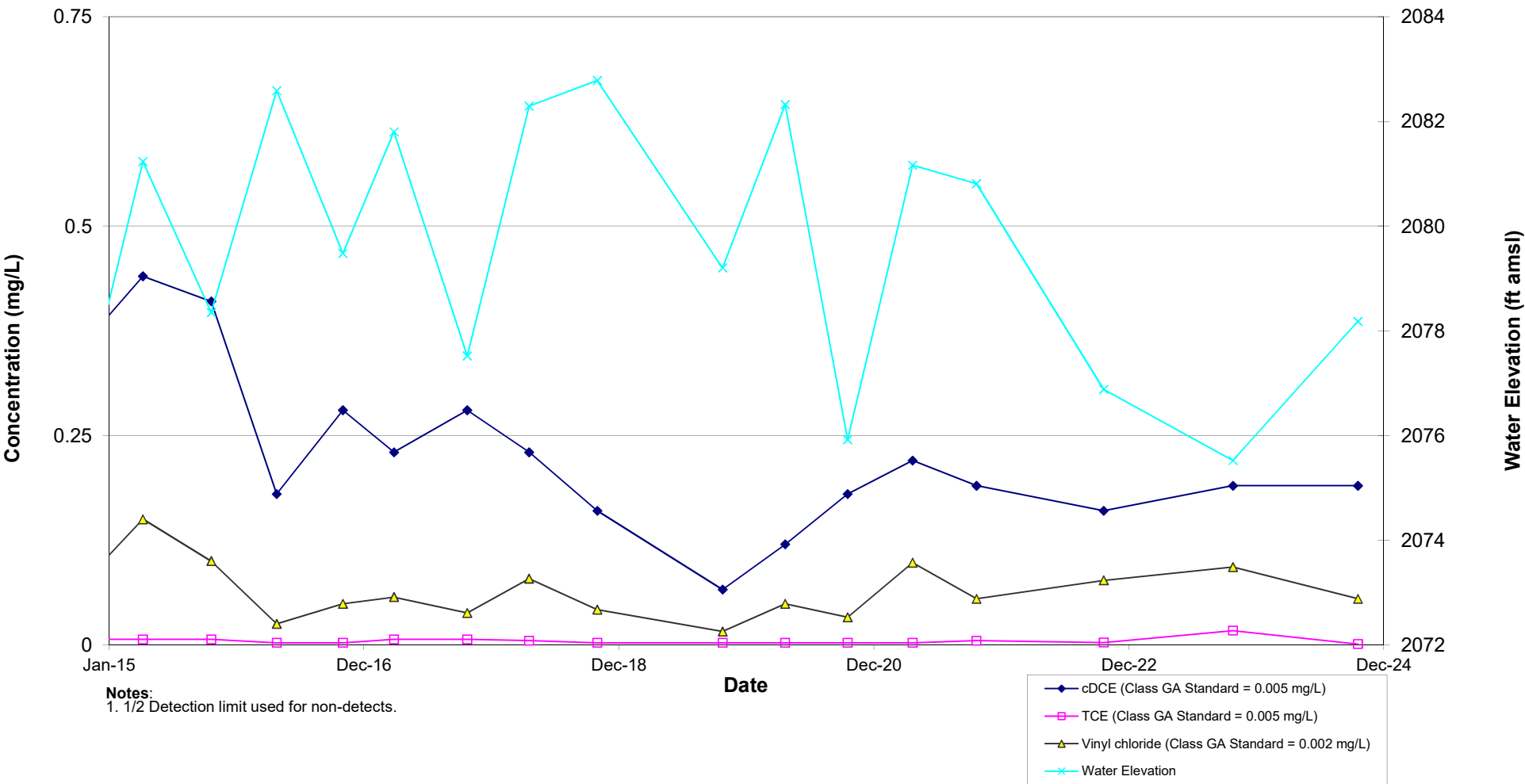
CW-3B VOCs



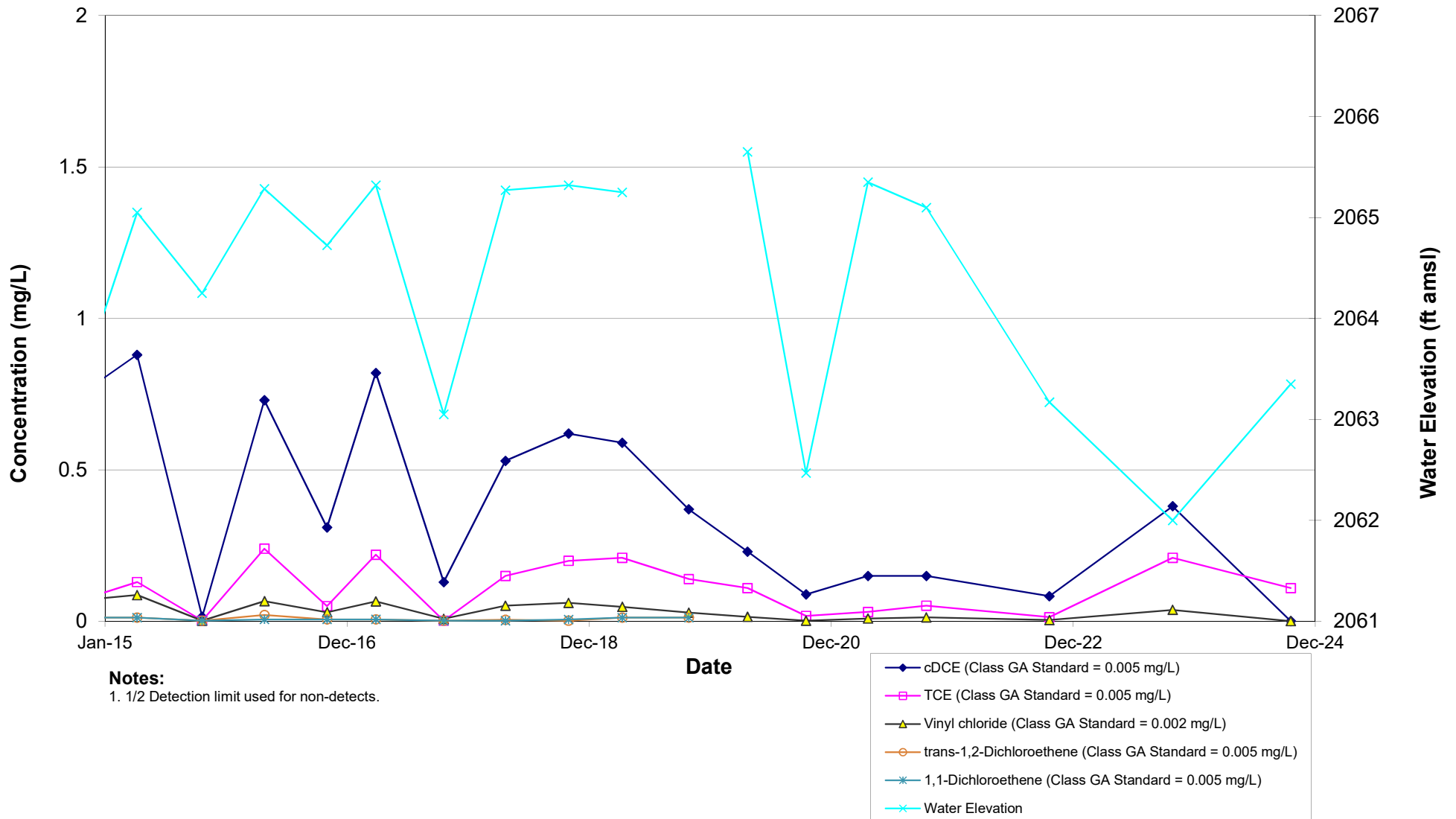
MW-3D VOCs



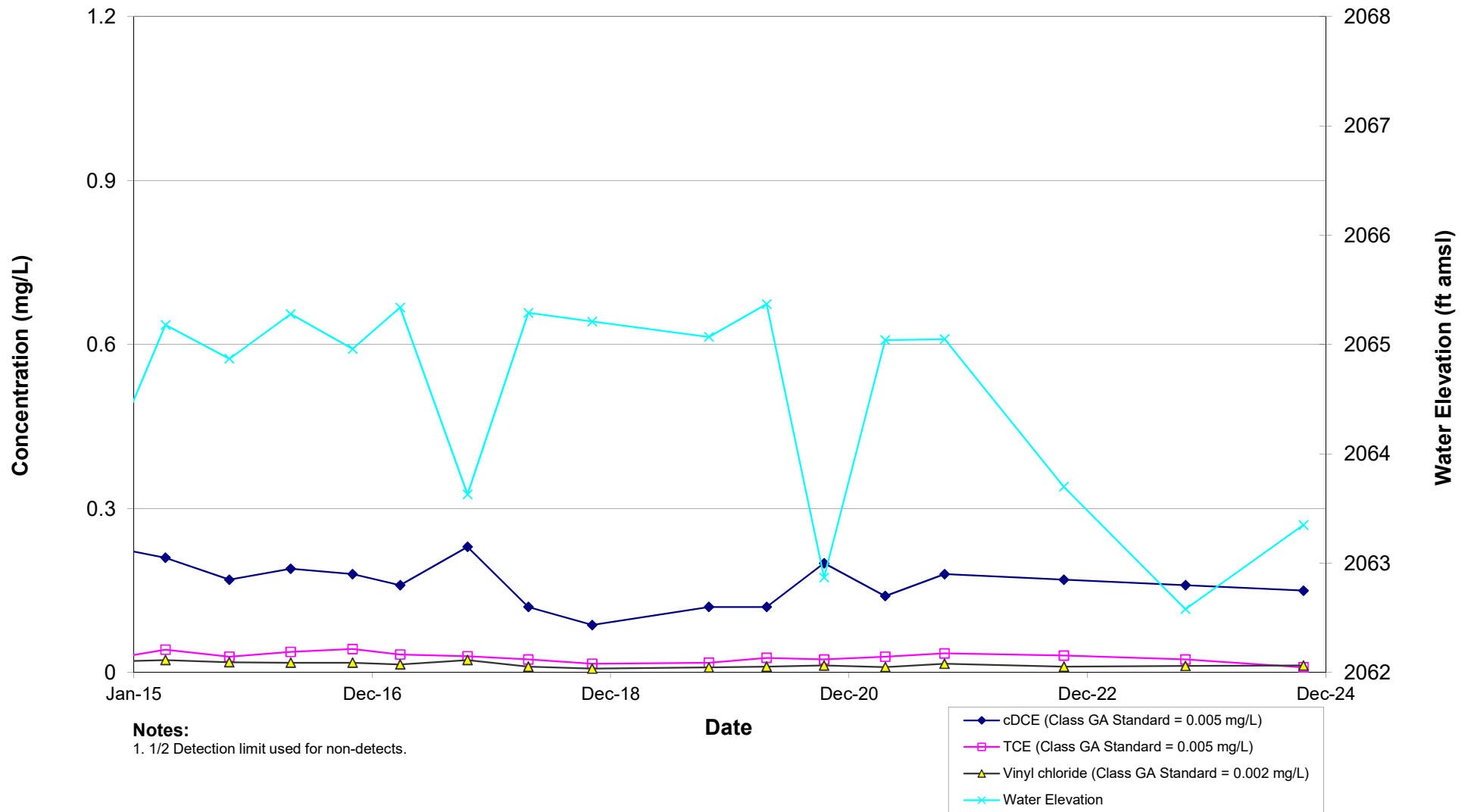
MW-4D VOCs



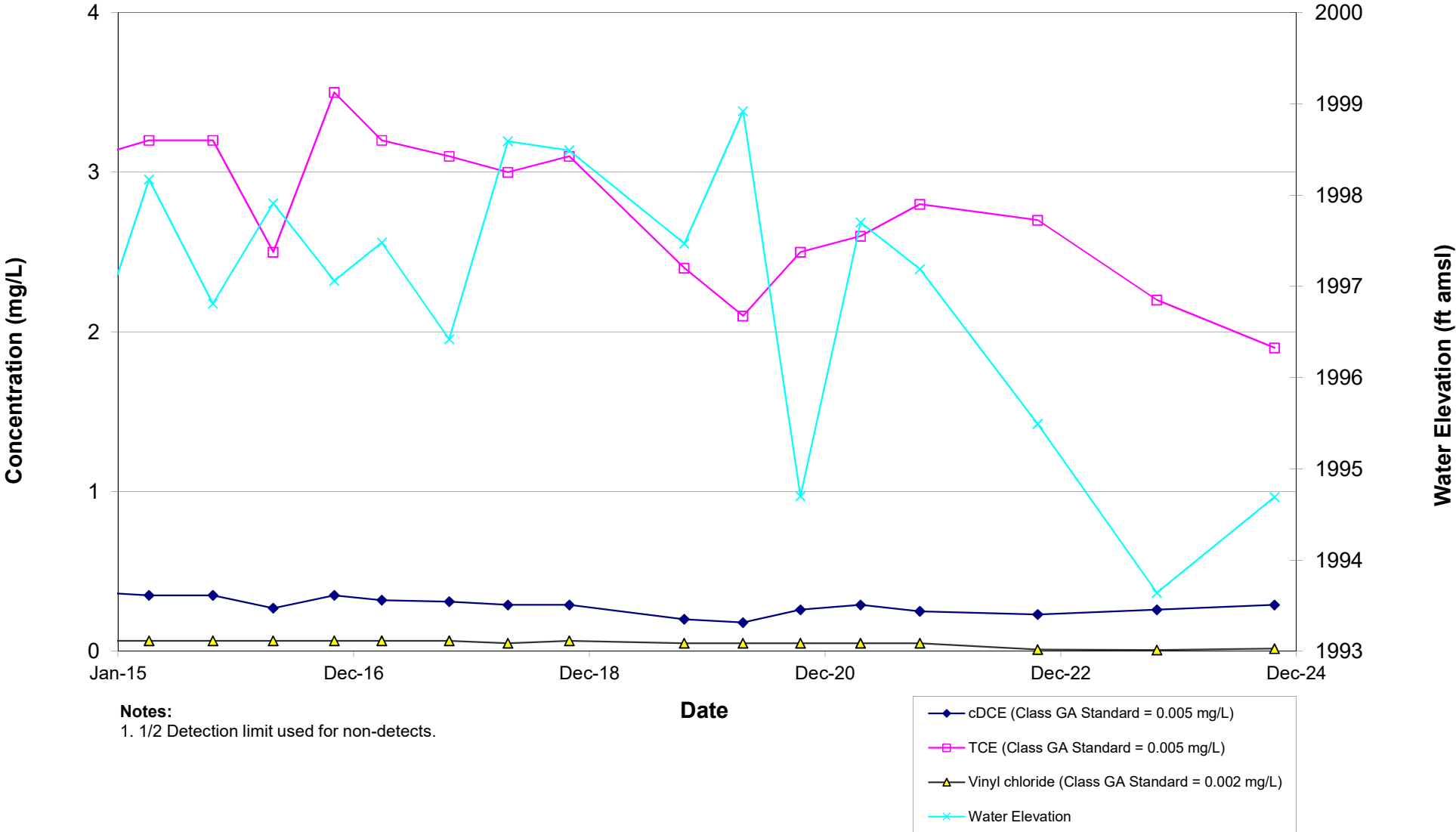
MW-5D VOCs



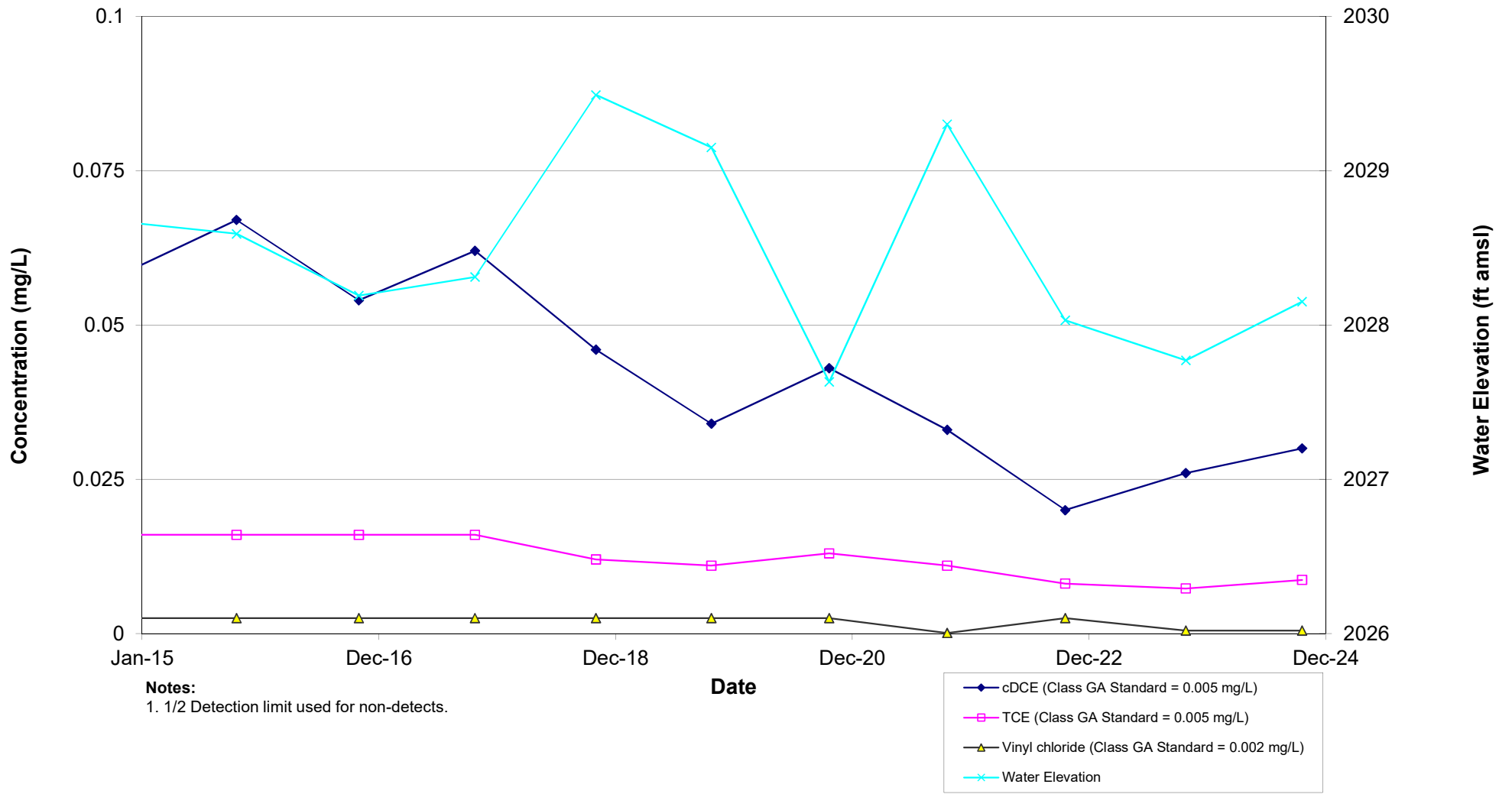
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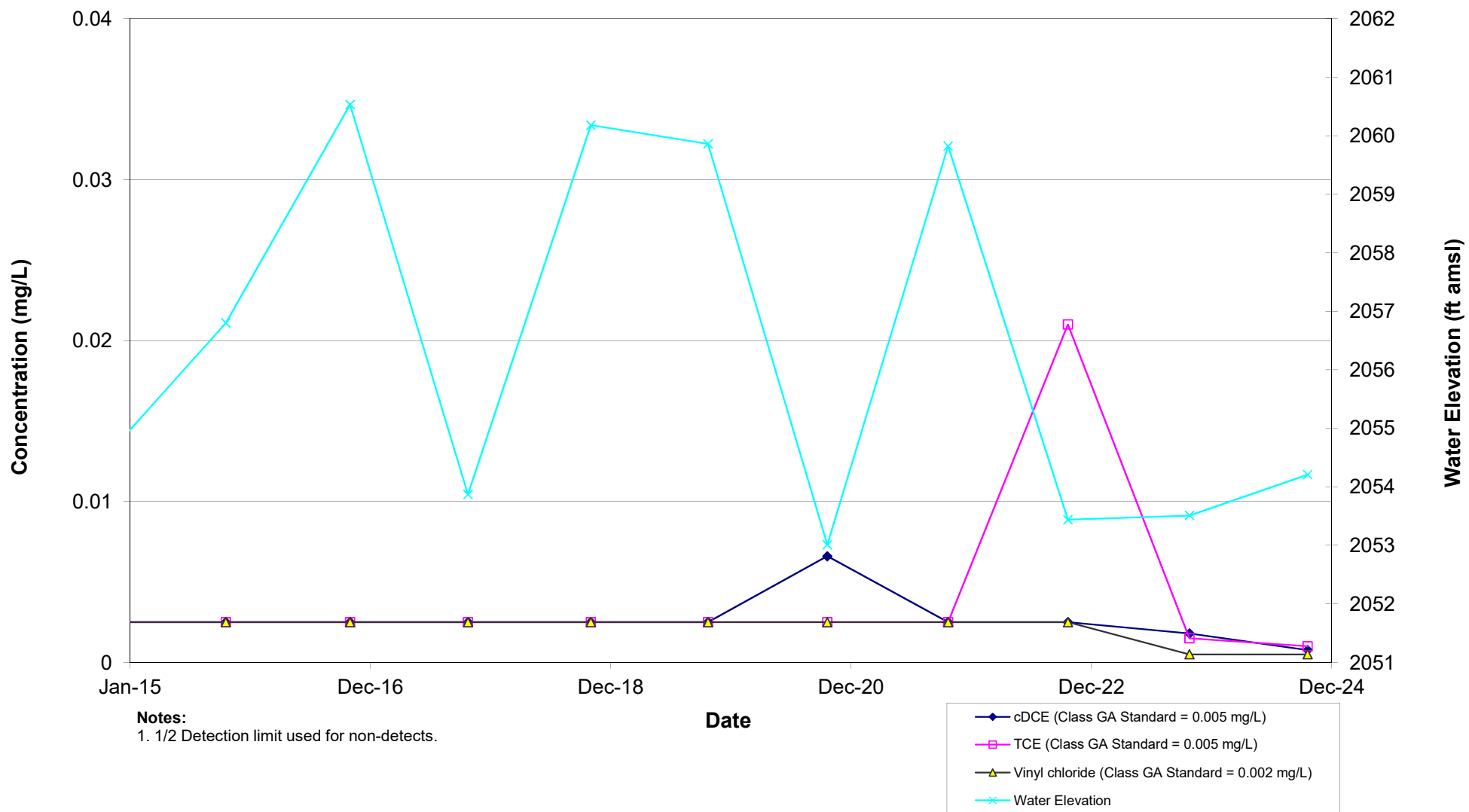
MW-11S VOCs



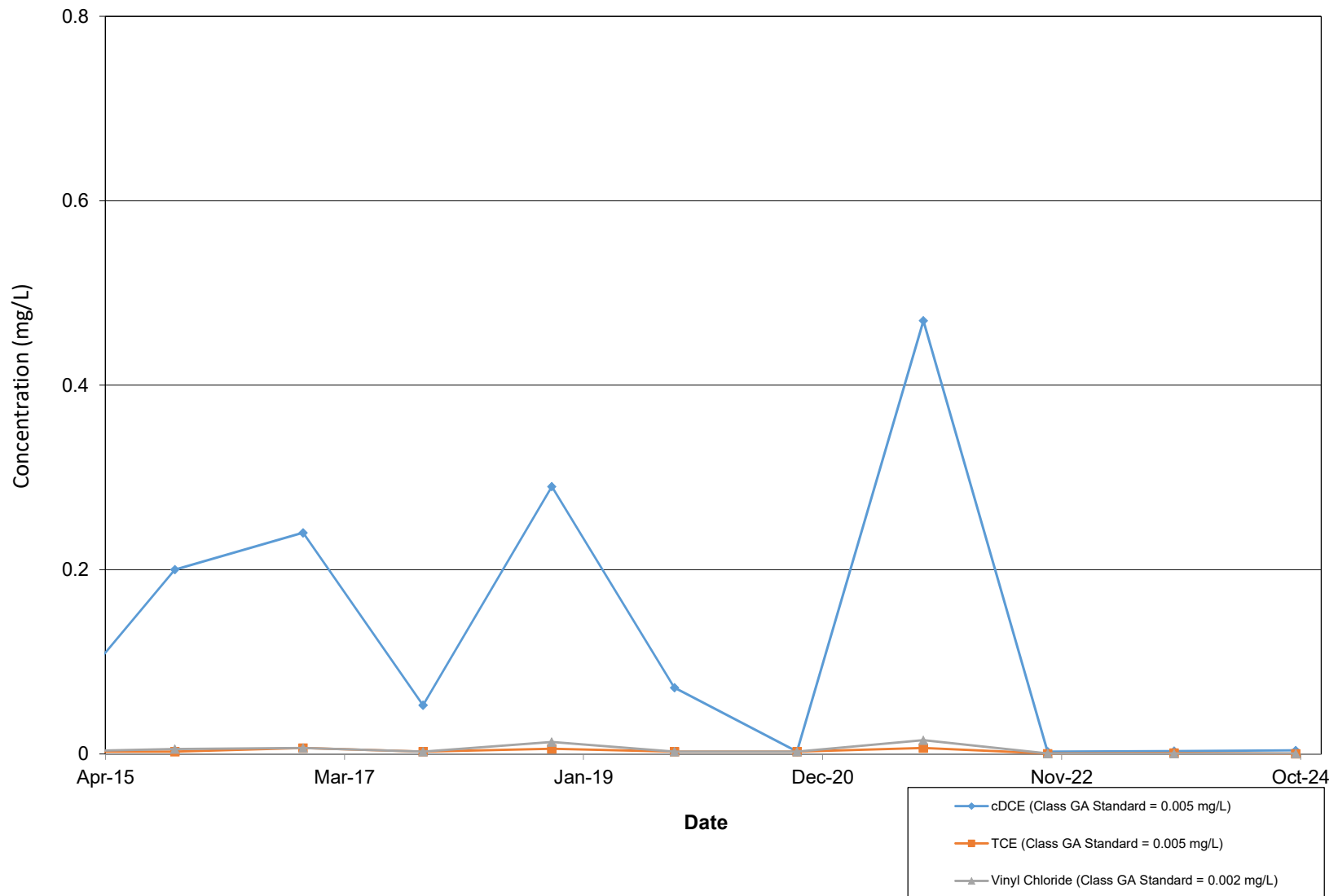
MW-17S VOCs



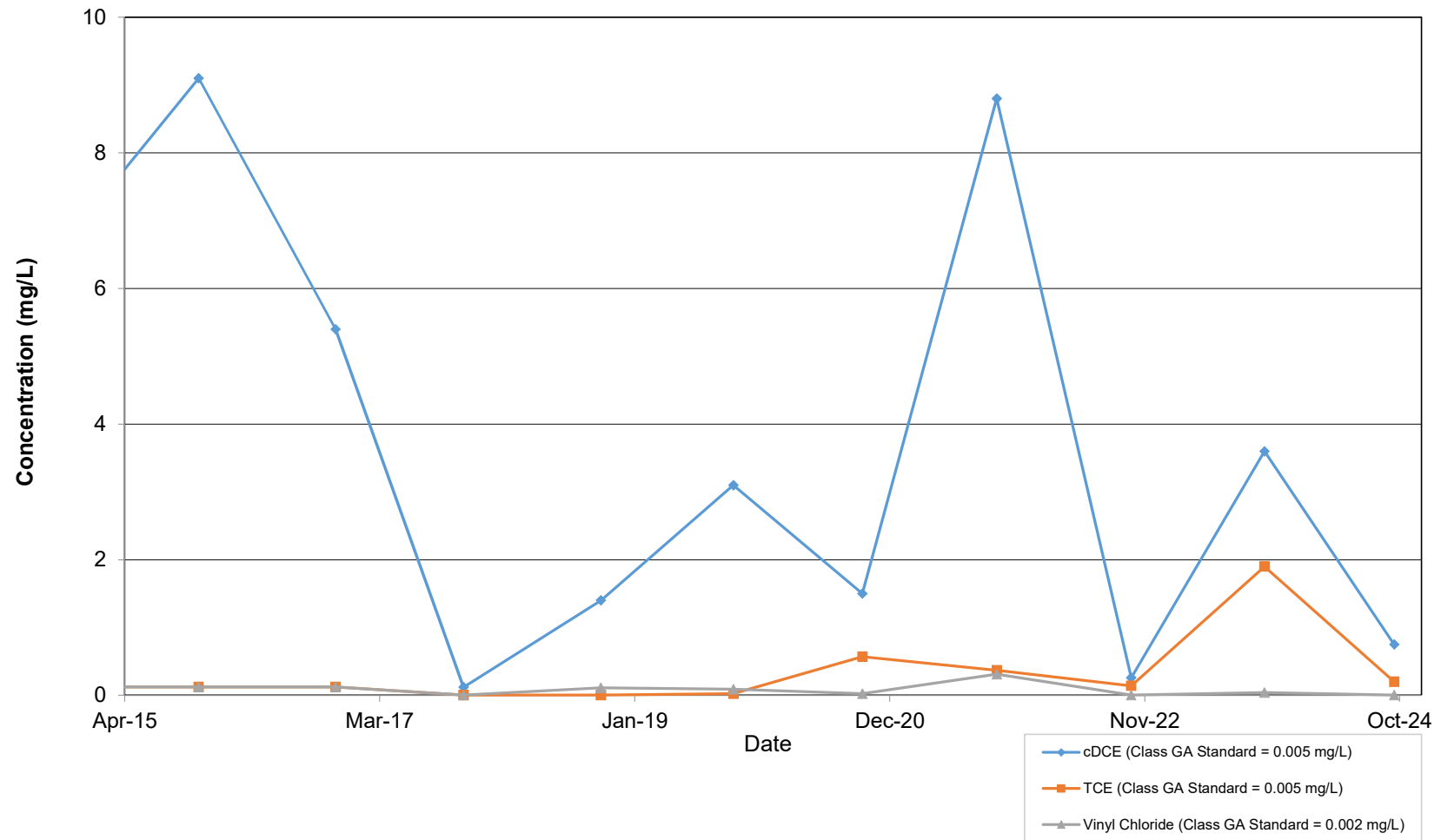
MW-18S VOCs



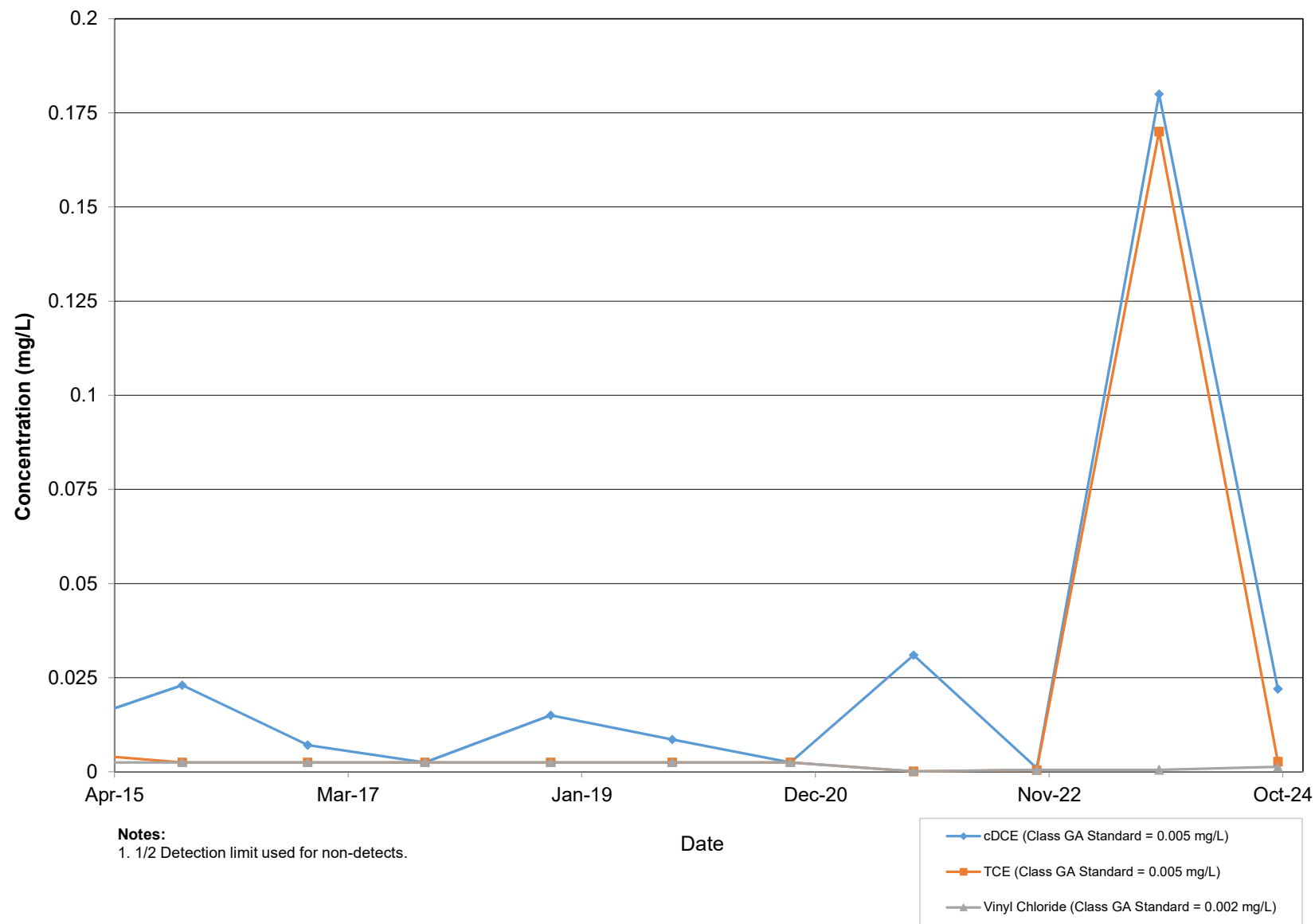
LS-1 VOCs



MH-32 VOCs



MH-33 VOCs



Appendix G

Residential Water Supply Result Letters



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

June 25, 2024

Ms. LaDue
3914 Snyder Road
Wellsville, New York 14895

Dear Ms. LaDue:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results from the April 17, 2024 sampling of your water supply located at 3914 Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-19. As you are aware, your water supply is equipped with a two-stage granulated activated carbon filtration unit. Sampling is conducted before the filters, between the two filters and after the filters. The results from the April 17, 2024 water samples are compared to the previous two sample results (October 24, 2023 and April 28, 2023) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for a sample collected on that date. The designations "Pre", "Inter" and "Post" indicates the sample was collected pre-filtration, between the two carbon filters or post-filtration, respectively. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 0.5 U indicates that the parameter was not detected above the detection limit of 0.5 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively.

The April 17, 2024 sample results from your water supply are within the above referenced standards. The only detected compounds are cis-1,2-Dichloroethene and Trichloroethene in the sample collected prior to filtration.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Brandes". The signature is written in a cursive, flowing style.

Jonathan Brandes, PG
Senior Geologist

cc: Dean Arnold (Village of Wellsville)
Taylor Monnin (NYSDEC)
Charlotte Bethoney (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL19Pre 4/28/2023	WAL19Inter 4/28/2023	WAL19Post 4/28/2023	WAL19Pre 10/24/2023	WAL19Inter 10/24/2023	WAL19Post 10/24/2023	WAL19Pre 4/17/2024	WAL19Inter 4/17/2024	WAL19Post 4/17/2024	Class GA Standard	NYSDOH MCL
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.04	5
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	5
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Carbon tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7	80
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
cis-1,2-Dichloroethene	1.7	0.5 U	0.5 U	1.7	0.5 U	0.5 U	1.6	0.5 U	0.5 U	5	5
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5

Table 1

**WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York**

Parameter	WAL19Pre 4/28/2023	WAL19Inter 4/28/2023	WAL19Post 4/28/2023	WAL19Pre 10/24/2023	WAL19Inter 10/24/2023	WAL19Post 10/24/2023	WAL19Pre 4/17/2024	WAL19Inter 4/17/2024	WAL19Post 4/17/2024	Class GA Standard	NYSDOH MCL

Volatile Organic Compounds (con't)

Dichloromethane (Methylene chloride)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Ethyl benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Isopropylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
m&p-Xylene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	5
Methyl tert-butyl ether (MTBE)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	10
n-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
n-Propylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Trichloroethene	2.2	0.5 U	0.5 U	2.2	0.5 U	0.5 U	2.3	0.5 U	0.5 U	5	5
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Vinyl chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	2
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	5
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	50

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations do not exceed NYSDOH MCL or Class GA Standards

U - Compound not detected at specified detection limit

Pre - Indicates sample collected pre-filtration

Inter - Indicates sample collected between first and second carbon filter

Post - Indicated sample collect post-filtration



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

September 27, 2024

Dan LaDue Jr.
3914 Snyder Road
Wellsville, NY 14895

Re: Private Water Supply Sampling Results

Dear Mr. LaDue:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results from the June 18, 2024 sampling of your well water supply located at 3914 Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-22. The sample results are presented on attached Table 1.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Parameters are divided into category that include: field parameters; inorganic compounds (metals); PFAS; 1,4-Dioxane; and VOCs. The next column list the reporting units for each parameter result. Field parameters are reported in various units. Inorganic compounds, 1,4-Dioxane and VOCs are reported in micrograms per liter (ug/L or parts per billion). PFAS results are provided in nanograms per liter (ng/L) also known as parts per trillion. The column labelled "WAL-22 6/18/2024" listed the test results for the sample collected from your well on June 18, 2024. The column labelled "Field Duplicate 6/18/2024" also listed results for water from your well as a duplicate quality control sample. A test result followed by a "U" qualifier indicate the parameter was not detected in the sample above the listed detection limit (example 0.5 U indicates that the parameter was not detected above the detection limit of 0.5 ug/L). A test result followed by a "J" qualifier indicates the result is estimated. The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard / Guidance Value" column is NYSDEC Class GA Groundwater Standards or Guidance Value. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively.

The June 18, 2024 sample results from your water supply are consistent with ambient groundwater quality. Field parameters and metal detection are typical of groundwater. VOCs are non-detect with exception of Bromomethane at a low-level estimated value. PFAS and 1,4-Dioxane are reported as non-detect. Sodium, a naturally occurring metal, is the only reported detection above applicable standards and is reported at 98,600 ug/L with a Class GA Standard of 20,000 ug/L. Although NYSDOH does not have a drinking water standard for Sodium, the following is recommended by NYSDOH: Water containing more than 20,000 ug/L of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270,000 ug/L of sodium should not be used for drinking by people on moderately restricted sodium diets.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

Jonathan E. Brandes, P.G.
Senior Geologist

cc: Dean Arnold, Village of Wellsville
Taylor Monnin, NYSDEC
Sara Bogardus (NYSDOH)
Jim Sullivan (NYSDOH)

Table 1

WAL-22 Residential Water Well Analytical Results
Wellsville-Andover Landfill
Wellsville, New York

Parameter	Units	WAL-22 6/18/2024	Field Duplicate 6/18/2024	Class GA Standard / Guidance Value	NYSDOH MCL

Field Parameters

Field pH (std. units)	Std units	8.05		6.5 - 8.5	
ORP (mV)	mV	-47.2			
Specific Conductivity (us/cm)	us/cm	482.4			
Temperature (deg. C)	deg C	11.8			
Turbidity (NTU)	NTU	2.43		5	5

Inorganic Compounds

Arsenic	UG/L	1 J	0.8 J	25	10
Barium	UG/L	33.7	32.4	1000	2000
Cadmium	UG/L	1 U	1 U	5	5
Calcium	UG/L	14900	14800		
Chromium	UG/L	10 U	10 U	50	100
Copper	UG/L	3 J	6.6 J	200	1300
Iron	UG/L	170	170	300	300
Lead	UG/L	1 U	1 U	25	15
Magnesium	UG/L	4400	4400	35000	
Manganese	UG/L	8 J	8 J	300	300
Nickel	UG/L	1.3	1.2	100	100
Potassium	UG/L	1900 J	1900 J		
Selenium	UG/L	2 U	2 U	10	50
Sodium	UG/L	98600	98300	20000	
Zinc	UG/L	20 U	9 J		5000

Per- and Polyfluoralkyl Substances (PFAS)

11CI-Pf3OUdS	ng/L	2 U	2 U		
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	ng/L	2 U	2 U		
9CI-PF3ONS	ng/L	2 U	2 U		
N-ethylperfluoro-1-octanesulfonamidoacetic acid	ng/L	2 U	2 U		
N-methylperfluoro-1-octanesulfonamidoacetic acid	ng/L	2 U	2 U		
Perfluorobutanesulfonic Acid (PFBS)	ng/L	2 U	2 U		
Perfluorodecanoic Acid (PFDA)	ng/L	2 U	2 U		
Perfluorododecanoic Acid (PFDoA)	ng/L	2 U	2 U		
Perfluoroheptanoic Acid (PFHpA)	ng/L	2 U	2 U		
Perfluorohexanesulfonic Acid (PFHxS)	ng/L	2 U	2 U		
Perfluorohexanoic Acid (PFHxA)	ng/L	2 U	2 U		
Perfluorononanoic Acid (PFNA)	ng/L	2 U	2 U		
Perfluorooctanesulfonic Acid (PFOS)	ng/L	2 U	2 U	2.7	10
Perfluorooctanoic Acid (PFOA)	ng/L	2 U	2 U	6.7	10
Perfluorotetradecanoic acid (PFTeDA)	ng/L	2 U	2 U		
Perfluorotridecanoic acid (PFTrDA)	ng/L	2 U	2 U		
Perfluoroundecanoic Acid (PFUnA)	ng/L	2 U	2 U		

Table 1

WAL-22 Residential Water Well Analytical Results
Wellsville-Andover Landfill
Wellsville, New York

Parameter	Units	WAL-22 6/18/2024	Field Duplicate 6/18/2024	Class GA Standard / Guidance Value	NYSDOH MCL

1,4-Dioxane

1,4-Dioxane	UG/L	0.04 U	0.04 U	0.35	1

Volatile Organic Compounds (VOCs)

1,1,1,2-Tetrachloroethane	UG/L	0.5 U	0.5 U	5	5
1,1,2,2-Tetrachloroethane	UG/L	0.5 U	0.5 U	5	5
1,1,2-Trichloroethane	UG/L	0.5 U	0.5 U	1	5
1,1-Dichloroethane	UG/L	0.5 U	0.5 U	5	5
1,1-Dichloroethene	UG/L	0.5 U	0.5 U	5	5
1,2,3-Trichloropropane	UG/L	0.5 U	0.5 U	0.04	5
1,2,4-Trimethylbenzene	UG/L	0.5 U	0.5 U	5	5
1,2-Dichlorobenzene	UG/L	0.5 U	0.5 U	3	5
1,2-Dichloroethane	UG/L	0.5 U	0.5 U	0.6	5
1,2-Dichloropropane	UG/L	0.5 U	0.5 U	1	5
1,3,5-Trimethylbenzene	UG/L	0.5 U	0.5 U	5	5
1,3-Dichlorobenzene	UG/L	0.5 U	0.5 U	3	5
1,3-Dichloropropane	UG/L	0.5 U	0.5 U	5	5
1,4-Dichlorobenzene	UG/L	0.5 U	0.5 U	3	5
2,2-Dichloropropane	UG/L	0.5 U	0.5 U	5	5
2-Chlorotoluene	UG/L	0.5 U	0.5 U	5	5
4-Chlorotoluene	UG/L	0.5 U	0.5 U	5	5
Benzene	UG/L	0.5 U	0.5 U	1	5
Bromobenzene	UG/L	0.5 U	0.5 U	5	5
Bromochloromethane	UG/L	0.5 U	0.5 U	5	5
Bromodichloromethane	UG/L	0.5 U	0.5 U	5	80
Bromoform	UG/L	0.5 U	0.5 U	5	80
Bromomethane	UG/L	0.35 J	0.23 J	5	5
Carbon tetrachloride	UG/L	0.5 U	0.5 U	5	5
Chlorobenzene	UG/L	0.5 U	0.5 U	5	5
Chloroethane	UG/L	0.5 UJ	0.5 UJ	5	5
Chloroform	UG/L	0.5 U	0.5 U	7	80
Chloromethane	UG/L	0.5 U	0.5 U	5	5
cis-1,2-Dichloroethene	UG/L	0.5 U	0.5 U	5	5
cis-1,3-Dichloropropene	UG/L	0.5 U	0.5 U	0.4	5
Dibromochloromethane	UG/L	0.5 U	0.5 U	5	80
Dibromomethane	UG/L	0.5 U	0.5 U	5	5
Dichlorodifluoromethane	UG/L	0.5 U	0.5 U	5	5
Dichloromethane (Methylene chloride)	UG/L	0.5 U	0.5 U	5	5
Ethyl benzene	UG/L	0.5 U	0.5 U	5	5
Isopropylbenzene	UG/L	0.5 U	0.5 U	5	5
m&p-Xylene	UG/L	1 U	1 U	5	5
Methyl tert-butyl ether (MTBE)	UG/L	0.5 U	0.5 U	5	10

Table 1

WAL-22 Residential Water Well Analytical Results
Wellsville-Andover Landfill
Wellsville, New York

Parameter	Units	WAL-22 6/18/2024	Field Duplicate 6/18/2024	Class GA Standard / Guidance Value	NYSDOH MCL

VOCs Continued

n-Butylbenzene	UG/L	0.5 U	0.5 U	5	5
n-Propylbenzene	UG/L	0.5 U	0.5 U	5	5
o-Xylene	UG/L	0.5 U	0.5 U	5	5
p-Isopropyltoluene	UG/L	0.5 U	0.5 U	5	5
sec-Butylbenzene	UG/L	0.5 U	0.5 U	5	5
Styrene	UG/L	0.5 U	0.5 U	5	5
tert-Butylbenzene	UG/L	0.5 U	0.5 U	5	5
Tetrachloroethene	UG/L	0.5 U	0.5 U	5	5
Toluene	UG/L	0.5 U	0.5 U	5	5
trans-1,2-Dichloroethene	UG/L	0.5 U	0.5 U	5	5
trans-1,3-Dichloropropene	UG/L	0.5 U	0.5 U	0.4	5
Trichloroethene	UG/L	0.5 U	0.5 U	5	5
Trichlorofluoromethane	UG/L	0.5 U	0.5 U	5	5
Vinyl chloride	UG/L	0.5 U	0.5 U	2	2
1,2,3-Trichlorobenzene	UG/L	0.5 U	0.5 U	5	5
1,2,4-Trichlorobenzene	UG/L	0.5 U	0.5 U	5	5
Hexachlorobutadiene	UG/L	0.5 U	0.5 U	0.5	5
Naphthalene	UG/L	0.5 U	0.5 U	5	50

Notes:

Class GA Standard / Guidance Value - NYSDEC Class GA Standard or Guidance Value as Appropriate

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Concentrations in **bold** exceed Class GA Standard

U - Parameter not detected at specified laboratory detection limit

UJ / J - Estimated value



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

February 13, 2025

Mr. John Carl
3987 Snyder Rd
Wellsville, NY 14895

Dear Mr. Carl:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results from the October 15, 2024 sampling of your water supply located on Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-1. The results from the October 15, 2024 water sample are compared to the previous two sample results (October 24, 2023 and October 21, 2022) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for the sample collected on that date. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 10 U indicates that the parameter was not detected above the detection limit of 10 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively.

The October 15, 2024 sample results are within New York State drinking water and groundwater standards.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Brandes". The signature is fluid and cursive, with the first name "Jonathan" and last name "Brandes" clearly distinguishable.

Jonathan Brandes, P.G.
Senior Geologist

cc: Dean Arnold (Village of Wellsville)
Taylor Monnin (NYSDEC)
Sara Bogardus (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

WAL-1 (Last 3 Samplings)
Residential Water Supply Analytical
Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL1-1022 10/21/2022	WAL1-1023 10/24/2023	WAL1-1024 10/15/2024	Class GA Standard	NYSDOH MCL

Inorganic Compounds

Arsenic	2.5	2.4	1.6	25	10
Barium	62.7	66.3	70.1	1000	2000
Cadmium	1 U	1 U	1 U	5	5
Calcium	42300	41900	41300		
Chromium	10 U	10 U	10 U	50	100
Copper	1.9	1.2	5.6	200	1300
Iron	100 U	100 U	100 U	300	300
Lead	1 U	1 U	1 U	25	15
Magnesium	14000	13700	14500		
Manganese	99	107	119	300	300
Nickel	1 U	1 U	1 U	100	100
Potassium	2000 U	1500 J	1600 J		
Selenium	2 U	2 U	2 U	10	50
Sodium	9400	9000	8800	20000	
Zinc	37	11 J	22		5000

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	5	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	5	5
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	1	5
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	5	5
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	5	5
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.04	5
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	5	5
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	5	5
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	3	5
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.6	5
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	1	5
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	5	5
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	3	5
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	5	5
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	3	5
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	5	5
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	5	5
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	5	5
Benzene	0.5 U	0.5 U	0.5 U	1	5
Bromobenzene	0.5 U	0.5 U	0.5 U	5	5
Bromochloromethane	0.5 U	0.5 U	0.5 U	5	5
Bromodichloromethane	0.5 U	0.5 U	0.5 U	5	80

Table 1

WAL-1 (Last 3 Samplings)
Residential Water Supply Analytical
Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL1-1022 10/21/2022	WAL1-1023 10/24/2023	WAL1-1024 10/15/2024	Class GA Standard	NYSDOH MCL

Volatile Organic Compounds (con't)

Bromoform	0.5 U	0.5 U	0.5 U	5	80
Bromomethane	0.5 U	0.5 U	0.5 U	5	5
Carbon tetrachloride	0.5 U	0.5 U	0.5 U	5	5
Chlorobenzene	0.5 U	0.5 U	0.5 U	5	5
Chloroethane		0.5 U	0.5 U	5	5
Chloroform	0.5 U	0.5 U	0.5 U	7	80
Chloromethane	0.5 U	0.5 U	0.5 U	5	5
cis-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	5	5
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.4	5
Dibromochloromethane	0.5 U	0.5 U	0.5 U	5	80
Dibromomethane	0.5 U	0.5 U	0.5 U	5	5
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	5	5
Dichloromethane (Methylene chloride)	0.5 U	0.5 U	0.5 U	5	5
Ethyl benzene	0.5 U	0.5 U	0.5 U	5	5
Isopropylbenzene	0.5 U	0.5 U	0.5 U	5	5
m&p-Xylene	1 U	1 U	1 U	5	5
Methyl tert-butyl ether (MTBE)	0.5 U	0.5 U	0.5 U	5	10
n-Butylbenzene	0.5 U	0.5 U	0.5 U	5	5
n-Propylbenzene	0.5 U	0.5 U	0.5 U	5	5
o-Xylene	0.5 U	0.5 U	0.5 U	5	5
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	5	5
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	5	5
Styrene	0.5 U	0.5 U	0.5 U	5	5
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	5	5
Tetrachloroethene	0.5 U	0.5 U	0.5 U	5	5
Toluene	0.5 U	0.5 U	0.5 U	5	5
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	5	5
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.4	5
Trichloroethene	0.5 U	0.5 U	0.5 U	5	5
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	5	5
Vinyl chloride	0.5 U	0.5 U	0.5 U	2	2
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5	5
Naphthalene	0.5 U	0.5 U	0.5 U	5	50

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations do not exceed NYSDOH MCL or Class GA Standards

U - Compound not detected at specified detection limit



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

February 13, 2025

Mr. Phil Rosini
72 Havenshire Rd
Rochester, NY 14625

Dear Mr. Rosini:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results for the November 14, 2024 sampling of your camp water supply located on Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-2. The results from the November 14, 2024 water sample are compared to the previous two sample results (October 23, 2023 and November 21, 2022) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for the sample collected on that date. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 10 U indicates that the parameter was not detected above the detection limit of 10 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively. Any sample result exceeding either or both standard is printed in **BOLD** on the attached table.

The November 14, 2024 results show Iron at 870 mcg/L and Manganese at 934 mcg/L are above both NYSDOH MCL and Class GA Standards. Sodium was also detected at 38400 mcg/L, which exceeds the Class GA Standard. These are naturally occurring inorganic compounds and sample results are consistent with historical samplings and ambient groundwater quality.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Brandes". The signature is fluid and cursive, with the first name "Jonathan" and last name "Brandes" clearly distinguishable.

Jonathan Brandes, PG
Senior Geologist

cc: Dean Arnold (Village of Wellsville)
Taylor Monnin (NYSDEC)
Sara Bogardus (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

WAL-2 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York

Parameter	WAL2-1122 11/21/2022	WAL2-1023 10/23/2023	WAL2-1124 11/14/2024	Class GA Standard	NYSDOH MCL

Inorganic Compounds

Arsenic	1 U	10 U	10 U	25	10
Barium	32	32	33 B	1000	2000
Cadmium	1 U	5 U	5 U	5	5
Calcium	41200	47200	51700		
Chromium	10 U	10 U	10 U	50	100
Copper	2.8	20 U	5 J	200	1300
Iron	480	620	870	300	300
Lead	1 U	5 U	5 U	25	15
Magnesium	13300	16000	17800		
Manganese	569	784	934	300	300
Nickel	1 U	40 U	12 J	100	100
Potassium	2000 U	2500	2000 J		
Selenium	2 U	10 U	10 U	10	50
Sodium	56100	47400	38400	20000	
Zinc	20 U	7 J	13 J		5000

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations in **bold** exceed either or both the NYSDOH MCL and Class GA Standards

U - Compound not detected at specified detection limit

J - Estimated Value



ON-SITE GEOLOGICAL SERVICES, D.P.C.

72 Railroad Avenue
Wellsville, New York 14895

Phone: (585) 593-1824
Fax: (585) 593-7471

February 13, 2025

Ms. LaDue
3914 Snyder Road
Wellsville, New York 14895

Dear Ms. LaDue:

On behalf of the Village of Wellsville, we are pleased to provide you with the attached laboratory analytical results from the October 15, 2024 sampling of your water supply located at 3914 Snyder Road in Wellsville, New York. For the purposes of sampling identification, your water supply is designated as WAL-19. As you are aware, your water supply is equipped with a two-stage granulated activated carbon filtration unit. Sampling is conducted before the filters, between the two filters and after the filters. The results from the October 15, 2024 water samples are compared to the previous two sample results (April 17, 2024 and October 24, 2023) on the attached table. When comparing results from different samples collected over time, some variations in the data are normal. Comparison of the results from the three samples shows consistent data with expected minor variations.

The attached data table is organized as follows. The left most column includes the names of the parameters tested. Each column with a date header includes the test results for a sample collected on that date. The designations "Pre", "Inter" and "Post" indicates the sample was collected pre-filtration, between the two carbon filters or post-filtration, respectively. Test results are reported in micrograms per liter (mcg/L). A test result followed by a "U" qualifier indicates the parameter was not detected in the sample above the listed detection limit (example 0.5 U indicates that the parameter was not detected above the detection limit of 0.5 mcg/L). The two right most columns present state water quality standards as follows. The column with header "NYSDOH MCL" is the New York State Department of Health (NYSDOH) Maximum Contaminant Levels (MCLs). The "Class GA Standard" column is NYSDEC Class GA Groundwater Standards. These standards have been established by the NYSDOH and NYSDEC for drinking water and groundwater, respectively.

The October 15, 2024 sample results from your water supply are within the above referenced standards. The only detected compounds are cis-1,2-Dichloroethene and Trichloroethene in the sample collected prior to filtration.

If you have any questions or concerns regarding your water, you may contact Jim Sullivan (NYSDOH) at 518-402-7500, Taylor Monnin (NYSDEC) at 716-851-7220, the Village of Wellsville at 585-593-1850 or On-Site at 585-593-1824. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Brandes". The signature is fluid and cursive, with the first name "Jonathan" written in a smaller, more compact script than the last name "Brandes".

Jonathan Brandes, PG
Senior Geologist

cc: Dean Arnold (Village of Wellsville)
Taylor Monnin (NYSDEC)
Sara Bogardus (NYSDOH)
Jim Sullivan (NYSDOH)

Attachment

Table 1

**WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York**

Parameter	WAL19Pre 10/24/2023	WAL19Inter 10/24/2023	WAL19Post 10/24/2023	WAL19Pre 4/17/2024	WAL19Inter 4/17/2024	WAL19Post 4/17/2024	WAL19Pre 10/15/2024	WAL19Inter 10/15/2024	WAL19Post 10/15/2024	Class GA Standard	NYSDOH MCL
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,3-Trichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.04	5
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2,4-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,2-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	5
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
1,3,5-Trimethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,3-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
1,3-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
1,4-Dichlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3	5
2,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
2-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
4-Chlorotoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1	5
Bromobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Carbon tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7	80
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
cis-1,2-Dichloroethene	1.7	0.5 U	0.5 U	1.6	0.5 U	0.5 U	1.5	0.5 U	0.5 U	5	5
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	80

Table 1

**WAL-19 (Last 3 Samplings)
Residential Water Supply
Analytical Results (mcg/L)
Wellsville/Andover Landfill
Wellsville, New York**

Parameter	WAL19Pre 10/24/2023	WAL19Inter 10/24/2023	WAL19Post 10/24/2023	WAL19Pre 4/17/2024	WAL19Inter 4/17/2024	WAL19Post 4/17/2024	WAL19Pre 10/15/2024	WAL19Inter 10/15/2024	WAL19Post 10/15/2024	Class GA Standard	NYSDOH MCL

Volatile Organic Compounds (con't)

Dibromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Dichlorodifluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Dichloromethane (Methylene chloride)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Ethyl benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Isopropylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
m&p-Xylene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5	5
Methyl tert-butyl ether (MTBE)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	10
n-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
n-Propylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
p-Isopropyltoluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
sec-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
tert-Butylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,2-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4	5
Trichloroethene	2.2	0.5 U	0.5 U	2.3	0.5 U	0.5 U	1.7	0.5 U	0.5 U	5	5
Trichlorofluoromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	5
Vinyl chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	2
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	5
Naphthalene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	50

Notes:

mcg/L - micrograms per liter (parts per billion)

NYSDOH MCL - New York State Department of Health Maximum Contaminant Level

Class GA Standard - New York State DEC Class GA Groundwater Standards

Concentrations do not exceed NYSDOH MCL or Class GA Standards

U - Compound not detected at specified detection limit

Pre - Indicates sample collected pre-filtration

Inter - Indicates sample collected between first and second carbon filter

Post - Indicated sample collect post-filtration