Interim Periodic Review Report

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart Street and 40 Bradley Street
City of Buffalo, Erie County, New York
NYSDEC Site No. 915141A

April 2025
Rev 1 – May 16, 2025
Rev 2 – July 17, 2025

Interim Periodic Review Report

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart Street and 40 Bradley Street
City of Buffalo, Erie County, New York
NYSDEC Site No. 915141A

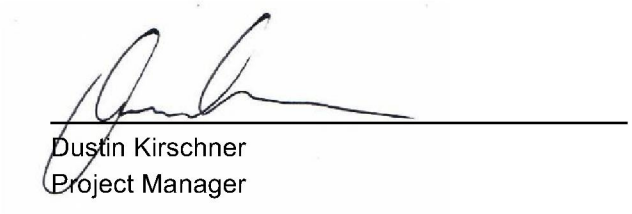
April 2025
Rev 1 – May 16, 2025
Rev 2 – July 17, 2025

Prepared By:
Arcadis of New York, Inc.
One Lincoln Center, 110 West Fayette Street, Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017

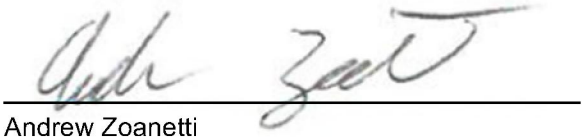
Our Ref:
30278342



Vincent Maresco
Principal Geologist / Project Director



Dustin Kirschner
Project Manager



Andrew Zoanetti
Project Engineer

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

Contents

Acronyms and Abbreviations ii
Executive Summary ES-1
1 Introduction 1
1.1 General 1
1.2 Site Background 1
2 Operations, Maintenance, and Monitoring 2
2.1 System Description 2
2.2 System Operation and Facility Maintenance 2
3 Discharge Monitoring and Permit Compliance 3
4 Non-Aqueous Phase Liquid Recovery 3
5 Semi-Annual Groundwater Monitoring and Reporting 3
5.1 Groundwater Elevation Measurements 4
5.2 Groundwater Sampling 4
6 Cap, Creek, and Sheet Pile Wall Inspections 5
7 Waste Handling and Disposal 5
8 Conclusion 6

Tables

Table ES-1. Period Review Report Summary ES-1

Figures

Figure 1 Site Map
Figure 2 Process Flow Diagram
Figure 3 Non-Aqueous Phase Liquid Recovery from Groundwater Recovery System
Figure 4 Non-Aqueous Phase Liquid Recovery from High-Viscosity Pump

Appendices

Appendix A Discharge Monitoring Reports
Appendix B Groundwater Monitoring
Appendix C Creek and Cap Inspections
Appendix D Waste Bills of Lading

Acronyms and Abbreviations

Arcadis	Arcadis of New York, Inc.
BSA	Buffalo Sewer Authority
BTEX	benzene, toluene, ethylbenzene, and xylene
DNAPL	dense non-aqueous phase liquid
NAPL	non-aqueous phase liquid
NYSDEC	New York State Department of Environmental Conservation
OMM	operations, maintenance, and monitoring
OWS	oil-water separator
Site	Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
Westwood Pharmaceuticals	Westwood-Squibb Pharmaceuticals Company, Inc.

Executive Summary

Table ES-1 summarizes the engineering controls implemented for the Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site (the Site), designated as Site No. 915141A by the New York State Department of Environmental Conservation (NYSDEC) pursuant to the New York State Inactive Hazardous Waste Registry Program. The Site is located at 120 Dart Street and 40 Bradley Street in the City of Buffalo, Erie County, New York. In addition to the engineering controls, Table ES-1 also summarizes the monitoring, inspection, maintenance, and reporting requirements for this Site.

Table ES-1. Period Review Report Summary

Element	Requirement
Engineering Controls	1. Soil cover system, including a combination of one foot topsoil cover and impermeable surfaces. 2. Groundwater and non-aqueous phase liquid collection and treatment system.
Monitoring	1. Groundwater Monitoring: a. Semi-annual fluid level measurements – monitoring wells B19, B6R, B7R, B8R, MWF1, MWF2, MWF3, MWF4, MWF5, MWS2, and MWS4 and piezometers P1, P2, P6R, P7R, P8R, PF3, PF4, PF6, PS1, PS2, TP1, and TP2. b. Semi-annual groundwater sampling – monitoring wells B6R, B7R, B8R, MWF2, MWF3, and MWF4 and piezometer P8R. 2. Seep Monitoring: a. Monthly seep inspection monitoring – historical seep numbers 13, 14, 16, 30, and 32.
Inspections	Site-wide inspections will continue to be performed on an annual basis, or within 5 days after an emergency, such as a natural disaster (e.g., flood, tornado, etc.) or an unforeseen failure of an engineering control, to verify the continued effectiveness of the institutional and engineering controls on the Site properties.
Maintenance	1. Transfer pumps: alternate quarterly and clean as needed. 2. Flow meter: replace annually. 3. Control panels: as needed. 4. Level floats: as needed. 5. Piping, hoses, fittings, and unions: as needed. 6. Air compressor: drain condensate weekly, test relief valve monthly, and change out oil and lubricate motor bearings annually. 7. Air dryer: clean annually. 8. Thermostats: as needed. 9. Skymetry alarm: as needed. 10. Oil-water separator: drain non-aqueous phase liquid weekly and clean annually. 11. Equalization tank: clean annually or as needed. 12. Carbon adsorbers: as needed. 13. Cartridge filter: inspect weekly, replace as needed.

Element	Requirement
Reporting	A periodic review report is to be submitted to the NYSDEC on an annual basis, which is to first begin 16 months after the acceptance of the Site Management Plan (SMP). Note: The SMP has not been approved at this time, nor has the Environmental Easement been finalized with the NYSDEC and filed against the real property records. A draft of the SMP was submitted to NYSDEC for review on February 14, 2022, and the Environmental Easement was submitted to the NYSDEC on February 11, 2025. However, under agreement with the NYSDEC, an interim periodic review report will be submitted for review in advance of the final SMP and institutional controls (Environmental Easement) being in place on an annual basis.

1 Introduction

1.1 General

This Interim Periodic Review Report has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of Westwood-Squibb Pharmaceuticals Company, Inc. (Westwood Pharmaceuticals), to present the post-remediation monitoring, inspection, operation and maintenance, and reporting of the past 12 months (April 2024-March 2025) for the Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site (the Site) located at 120 Dart Street and 40 Bradley Street in the City of Buffalo, Erie County, New York (**Figure 1**). The Site is currently listed under the New York State Inactive Hazardous Waste Registry Program (Site Number 915141A), which is administered by the New York State Department of Environmental Conservation (NYSDEC). Westwood Pharmaceuticals no longer holds fee title to the Site, but still has a legal right of access to the Site that runs with the land to maintain and operate the NYSDEC-approved Site remedy.

The Site was remediated by Westwood Pharmaceuticals between 1996 and 1997, consistent with the NYSDEC's selected remedy, as identified in the *Record of Decision*[1] and amended by the subsequently issued *Explanation of Significant Difference*.[2] Remediation activities included installation of a groundwater pump and treat system with extraction wells and low permeability soil cover. The existing groundwater interceptor trench was installed in 2017 to enhance the groundwater and non-aqueous phase liquid (NAPL) recovery at the Site. This interceptor trench replaced the previously installed extraction wells. Institutional and engineering controls have been incorporated into the Site remedy to control exposure to the remaining soil and groundwater impacts and protect public health and the environment.

1.2 Site Background

The Site is comprised of two main properties, which are identified as Block 1, Lot 5.1 and Block 1, Lot 5.2 on Section 88.50 of the City of Buffalo Tax Map. An additional, small half-moon shaped area of land is included within the definition of the Site, which comprises a small area not currently listed under a Site Block Lot number through Erie County, and is between the noted lots and the Scajaquada Creek. The Site properties encompass approximately 9.25 acres and are generally bounded by a City of Buffalo lot to the north; Bradley Street and a mix of vacant industrial and residential properties to the south; Dart Street and a mix of industrial and residential properties to the east; and vacant land, Scajaquada Creek, and industrial properties to the west. The Site is zoned for industrial use and contains two 100,000-square-foot warehouses (Building 6 and Building 9) and a groundwater treatment building (Building 6A). Building 6 and Building 9 are owned by 2225 East 7 Properties, LLC and JEMF Buffalo Industrial, LLC and are currently leased to a trucking firm for warehousing operations. The remainder of the Site is covered with a mixture of grass, asphalt pavement, and gravel/crushed stone. The Site is enclosed by fencing and is generally secure from public access.

Surface topography at the Site is relatively flat, but slopes steeply toward Scajaquada Creek along the western boundary of the Site. Most surface water run-off is directed toward on-site drainage ditches and storm sewers, although some surface water flows directly to Scajaquada Creek during precipitation events. Scajaquada Creek discharges into Black Rock Canal and eventually into the Niagara River.

[1] NYSDEC. 1994. *Record of Decision*, Iroquois Gas/Westwood Pharmaceutical, Site No. 9-15-141, City of Buffalo, Erie County. March.
[2] NYSDEC. 2014. *Explanation of Significant Difference*, Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site. November.

2 Operations, Maintenance, and Monitoring

2.1 System Description

The extraction system recovers impacted groundwater and NAPL from a 310-foot-long interceptor trench located in the northwest area of the Site, proximate to the Scajaquada Creek (**Figure 1**). The interceptor trench was installed in 2017 to replace a series of groundwater extraction wells. A 4-inch-diameter, 265-foot-long, slotted pipe was installed at the base of the interceptor trench and terminates at a recovery sump. A pneumatic pump extracts groundwater and NAPL from the recovery sump and transfers it through a 2-inch liquid conveyance pipe to the groundwater treatment plant (Building 6A). Compressed air is supplied to the pump via a 1-inch pipe. A second, high-viscosity pneumatic pump is installed in the sump for dedicated dense non-aqueous phase liquid (DNAPL) recovery. A Construction Completion Report for the groundwater interceptor trench was submitted to the NYSDEC in December 2017 and approved by the NYSDEC on September 30, 2019.

Inside the groundwater treatment plant, the total fluids recovered from the interceptor trench sump flow through an oil-water separator (OWS) capable of separating both light non-aqueous phase liquid and DNAPL from the total fluid stream. The outflow of water is then pumped through an equalization tank, through a particle filtration system, and then through a granular activated carbon treatment. The treated water is discharged to the Buffalo Sewer Authority (BSA) under Buffalo Pollutant Discharge Elimination System discharge permit number 24-07-BU174 (BSA Permit). A process flow diagram is included as **Figure 2**.

2.2 System Operation and Facility Maintenance

Operations, maintenance, and monitoring (OMM) activities are performed by the operator and documented on digital operator log sheets. Weekly visual inspections of the treatment building and equipment, the cartridge filter, the air dryer, and the equalization tank level switches are conducted. Management of inventory supplies and spare parts is also completed on a weekly basis. Other OMM items to note are:

- The cartridge filter is checked weekly and changed out as needed.
- The air compressor condensate liquid is removed as needed.
- Any NAPL from the OWS is drained and stored in a drum on a weekly basis.

The cap area and the area adjacent to the creek are mowed, as needed, during the growing season. Snow removal is completed to access the treatment building. The flow meter is replaced on an annual basis to keep an accurate and properly calibrated reading. On a quarterly basis, the transfer pump is switched over to the standby transfer pump that was not used for the previous quarter. Weed maintenance along the road and fence is completed in the spring and fall.

The system had been in operation since 1997 in its original configuration and was reconfigured in June 2017 after the completion of the groundwater interceptor trench, with limited downtime for maintenance since that time. In late November and early December 2019, the total fluids recovery pump became clogged with certain viscous NAPL, and NAPL recovery was temporarily reduced while the pump was removed from the sump and replaced. The total fluids recovery pump was re-installed in mid-March 2020 and lowered incrementally into the NAPL to prevent clogging and resume product recovery. Given the nature of the complete remedy, this limited and temporary decrease in efficiency did not have any impact on compliance.

The groundwater treatment system continues to be maintained weekly and, barring occasional maintenance, has been in continual operation. A total of 300,942 gallons of groundwater were extracted, treated, and discharged through the treatment system from April 1, 2024 through March 31, 2025.

3 Discharge Monitoring and Permit Compliance

In compliance with the BSA Permit, Arcadis submits quarterly Discharge Monitoring Reports to the BSA. Monthly discharge grab samples are collected and analyzed for pH, total mercury, total zinc, total cyanide, volatile organic compounds, and semi-volatile organic compounds via standard United States Environmental Protection Agency methods. In the past 12 months, analytical results have indicated the treatment system operates within the permit requirements and within regulatory compliance. The Discharge Monitoring Reports are included in **Appendix A**.

4 Non-Aqueous Phase Liquid Recovery

As indicated to the NYSDEC in the last interim Periodic Review Report, to improve efficiency of NAPL recovery, additional OMM procedures have been implemented to recover NAPL that is currently located below the trench recovery sump pump intake. During routine system inspections, if needed, a portable recovery pump designed for high viscous liquids is lowered into the sump to recover accumulated DNAPL.

In the past 12 months, 0.1 gallons of NAPL were recovered by the treatment system OWS, and no NAPL was recovered from the monitoring wells. A portable dedicated high-viscosity pump was used in June and July 2024 to recover DNAPL that had accumulated in the interceptor trench sump. Approximately 24 gallons of DNAPL were recovered during two recovery events on June 18, 2024 and July 17, 2024. NAPL recovery from the dedicated high-viscosity pump and treatment system in the past 12 months is included in **Figures 3 and 4**. NAPL recovered from the OWS, interceptor trench sump, and monitoring wells is temporarily stored on site in 55-gallon drums. Approximately 245 gallons of NAPL was disposed offsite in August 2024, as discussed below in Section 7.

5 Semi-Annual Groundwater Monitoring and Reporting

The semi-annual groundwater monitoring program at the Site is completed in accordance with a verbal request made by Glenn May of the NYSDEC on August 4, 2015, to Vin Maresco of Arcadis. Arcadis personnel completed the 2024 sampling events on June 5, 2024, October 9, 2024, and October 23, 2024. Groundwater sampling was completed in accordance with the December 2017 *Proposed Groundwater Gauging and Sampling Plan (Groundwater Monitoring Plan)*[3] and subsequent groundwater monitoring events.

The field activities, field observations, and analytical results for groundwater sampling completed during both the June and October events are described below.

[3] Arcadis. 2017. *Proposed Groundwater Gauging and Sampling Plan (Groundwater Monitoring Plan)*, Former Iroquois Gas/Westwood Pharmaceutical Site, 100 Forest Avenue, Buffalo, New York, NYSDEC Site No. 915141A. December 14.

Groundwater monitoring, consisting of fluid level measurements (gauging) and groundwater sampling, is conducted to:

- Confirm groundwater elevation and flow direction and the effectiveness of the groundwater/NAPL collection system.
- Assess seasonal changes in groundwater elevation.
- Monitor for the presence of NAPL.
- Evaluate dissolved-phase concentration trends to assess dissolved-phase stability.

5.1 Groundwater Elevation Measurements

Fluid level measurements (gauging) are collected on a semi-annual basis at: monitoring wells B6R, B7R, B8R, B19, MWF1, MWF2, MWF3, MWF4, MWF5, MWS2, and MWS4; piezometers P1, P2, P6R, P7R, P8R, PF3, PF4, PF6, PS1, PS2, TP1, and TP2; and the trench pumping sump. The well locations are shown on **Figure 1**. Each gauging event includes the following:

- Measurement of the groundwater/surface water level and, where present, NAPL thickness at each well or piezometer; and
- Manual removal, to the extent practicable, of NAPL accumulations greater than 0.1 foot in thickness in the well column (see Section 4 for details).

At each well/piezometer an oil-water interface probe is used to determine the presence or absence of NAPL and measure the depth to groundwater, the depth to NAPL (where present), and the total depth of the well/piezometer. Depths are measured to the nearest 0.01 foot from the reference point at the top of the inner casing. To the extent practicable, groundwater levels are measured within a single workday to minimize potential relative changes in measurements due to seasonal conditions or precipitation events.

Groundwater elevations observed during the 2024 gauging events consistently show a general westward flow towards the Scajaquada Creek and gradients toward the interceptor trench and recovery sump. Groundwater gauging data and contour maps are included in **Appendix B**.

5.2 Groundwater Sampling

Groundwater sampling is conducted on a semi-annual basis at monitoring wells B6R, B7R, B8R, MWF2, MWF3, and MWF4 and at piezometer P8R. The well locations are shown on **Figure 1**. Each sampling event includes the following:

- Measurement of the groundwater level and, where present, NAPL thickness at each well or piezometer (as discussed in Section 5.1);
- Collection and analysis of groundwater samples from those wells/piezometers where NAPL is not observed, using disposable bailers and a three-volume purge technique (purge and sampling logs are included in **Appendix B**); and
- Manual removal, to the extent practicable, of NAPL accumulations greater than 0.1 foot in thickness in the well column (see Section 4 for details).

Following fluid level measurements, groundwater samples are collected, packaged on ice, and shipped to Eurofins Test America Laboratory for the analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) via United States Environmental Protection Agency Method 8260C.

During the June 2024 sampling event, total BTEX concentrations ranged from below laboratory method detection limits at monitoring wells B6R and MWF3 to 941 micrograms per liter at monitoring well MWF2. Samples collected from monitoring wells B7R, B8R, MWF2, MWF4, and P8R exhibited BTEX at concentrations greater than the NYSDEC ambient water quality standards and guidance values presented in the NYSDEC Technical and Operational Guidance Series 1.1.1.[4] Results of the June 2024 analytical results are generally consistent with the historical project record.

During the October 2024 sampling event, total BTEX concentrations ranged from below laboratory method detection limits at monitoring well MWF3 to 2,318 micrograms per liter at monitoring well MWF4. Samples collected from monitoring wells B7R, B8R, MWF2, MWF4, and P8R exhibited detected BTEX at concentrations greater than NYSDEC ambient water quality standards and guidance values presented in the NYSDEC Technical and Operational Guidance Series 1.1.1.[4] Results of the October 2024 analytical results are generally consistent with the historical project record.

Tabulated groundwater analytical data and groundwater concentration figures for the associated period are included in **Appendix B**.

6 Cap, Creek, and Sheet Pile Wall Inspections

The Site cap, consisting of previously existing Site development, impervious surfaces, and an engineered soil cover system, is inspected weekly for any breaches, penetrations, or other disturbances. The monthly cap inspection sheets including photo-documentation are provided in **Appendix C**.

Monitoring of the sheet pile wall and Scajaquada Creek are conducted monthly to verify that the groundwater/NAPL collection system is providing sufficient hydraulic containment to prevent the off-site migration of groundwater and NAPL. Each monitoring event includes a visual assessment and photo-documentation of the exposed portion of the sheet pile wall, as well as the surface waters of the Scajaquada Creek. Westwood Pharmaceuticals is not responsible for the sheet pile wall OMM, which is tied to a separate remedy.

No seepage through the wall or sheen on the surface water has been observed within the past 12 months. No other issues impacting the effectiveness of the engineering controls were identified. The monthly creek and sheet pile wall inspection reports are included in **Appendix C**.

7 Waste Handling and Disposal

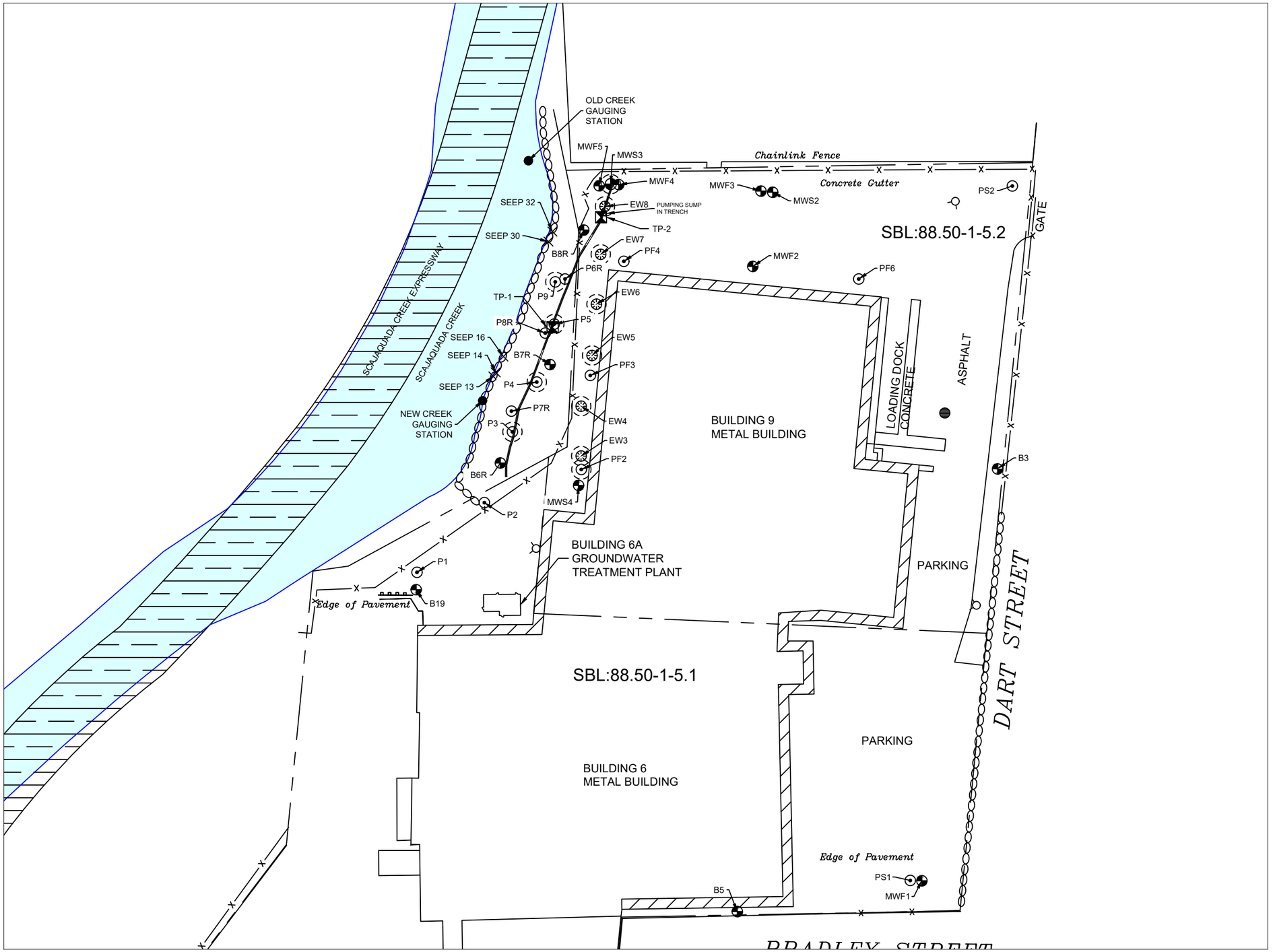
In August 2024, waste was transported by Clean Harbors to the Clean Harbors El Dorado facility in El Dorado, Arkansas, for disposal as non-hazardous waste. The material sent for disposal included spent paper filter cartridges, personal protective equipment, recovered DNAPL, and spent carbon. In October 2024, empty drums were transported by Clean Harbors to the Spring Grove Resource Recovery facility in Cincinnati, Ohio, for disposal as non-hazardous waste. The bills of lading are included in **Appendix D**.

[4] NYSDEC. 1993. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. October 22, 1993, reissued June 1998.

8 Conclusion

The current remedy and institutional controls have been effective for the past 12 months and are being implemented consistent with the requirements of the *Record of Decision*[1] and *Explanation of Significant Difference*.[2] The groundwater recovery trench has been effectively controlling groundwater, dissolved constituents, and NAPL. The groundwater treatment system has operated within permit requirements with no exceedances over the past 12 months. Work continues with the property owner to effectuate the filing of an environmental easement on the real property to finalize implementation of the remedy. A final Site Management Plan, to be approved by the NYSDEC, will be incorporated by reference into the Environmental Easement to assure continuation of the institutional and engineering controls, as well as the associated OMM activities described herein.

Figures



0 100 200

GRAPHIC SCALE

LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP

NOTE:
1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

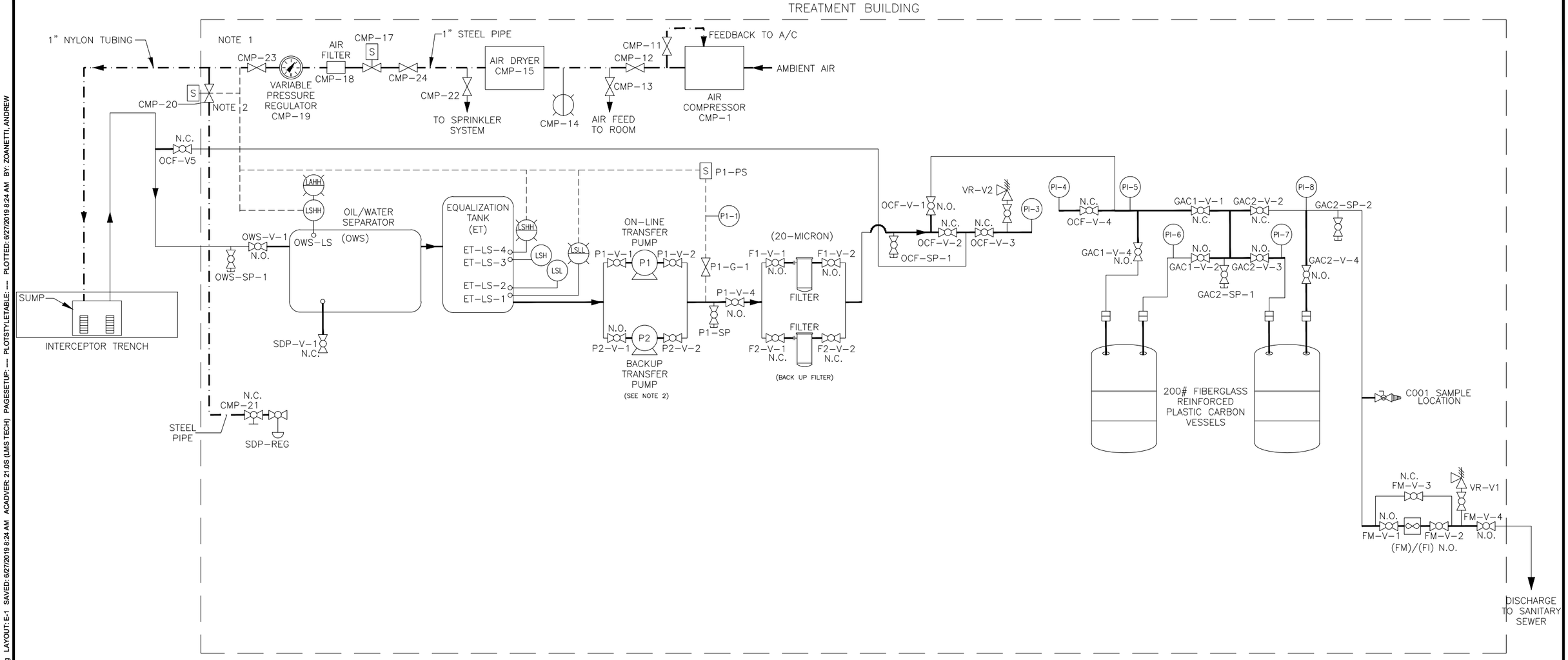
IROQUOIS GAS/WESTWOOD PHARMACEUTICAL
TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK 14213

SITE MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: DIV/GROUP: DB: PMTM: LYR:(Opt)ON=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\GW FIGURES.dwg LAYOUT: 1 SAVED: 3/31/2025 3:53 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 4/16/2025 9:51 AM BY: ZOANETTI, ANDREW



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoanetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: ____ USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
CITY OF BUFFALO, ERIE COUNTY, NEW YORK
NYSDEC SITE NO. 915141A

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

FIGURE 2

Figure 3
Non-Aqueous Phase Liquid Recovery From Groundwater Recovery System
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, NY

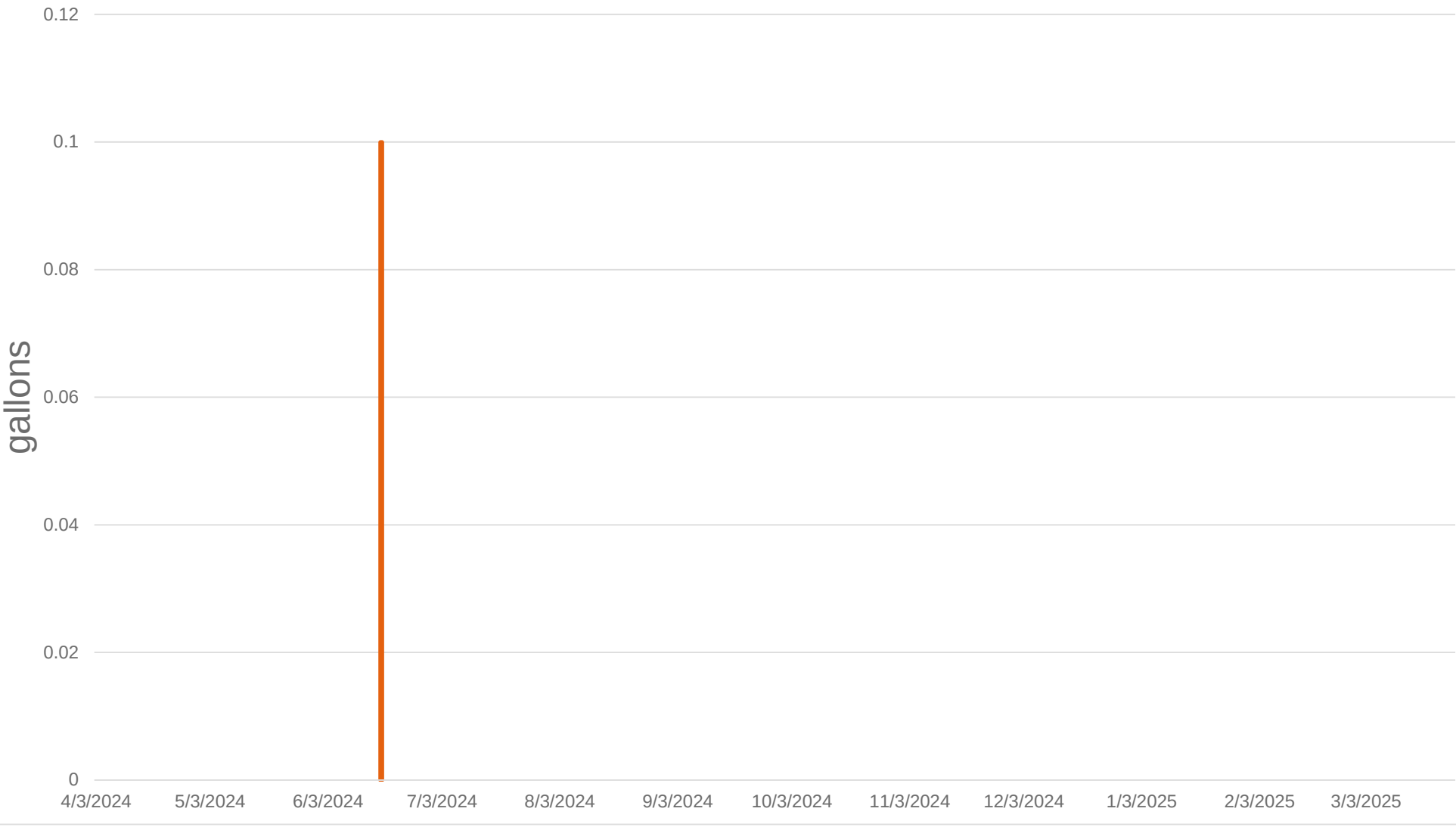


Figure 4
Non-Aqueous Phase Liquid Recovery from High-Viscosity Pump
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St., Buffalo, NY



Appendix A

Discharge Monitoring Reports

Ms. Traserra Adams
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse, NY 13202
United States
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: June 27, 2024
Our Ref: 30185775
Subject: **Discharge Monitoring Report – Second Quarter 2024**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Adams,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this second quarter 2024 Discharge Monitoring Report (DMR) for the above-referenced site, which covers April 1 to June 30, 2024. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 86,642 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 3/26/2024 to 6/25/2024). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the second quarter of 2024.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the April, May, and June monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In April, May, and June 2024, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

Ms. Traserra Adams
Buffalo Sewer Authority Treatment Plant
June 27, 2024

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:

Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

CC. Richard Mator, BMS
John Alonzo, de maximis, inc.
Michael J. Hecker, Hodgson Russ LLP
Katie Hoelscher, NFG

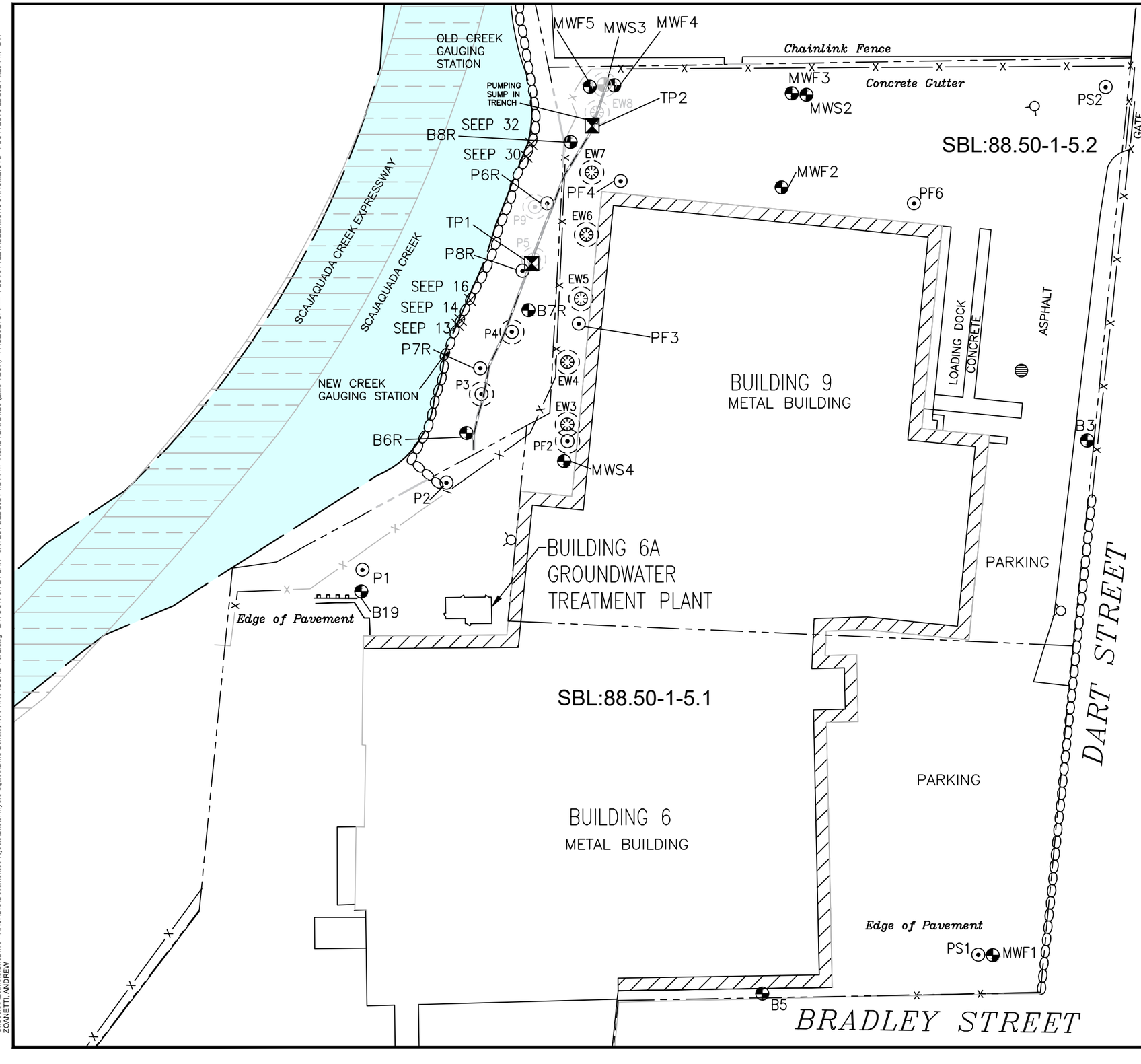
Attachments:

A Site Plan and Process Flow Diagram
B Sample Collection and Log Sheets for Monthly Sampling Events
C Quarterly Analytical Data Table
D Laboratory Analytical Data Packages

Attachment A

Site Plan and Process Flow Diagram

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PMTM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\FIGURE 1 & 2.dwg LAYOUT: SITE PLAN SAVED: 5/22/2024 1:21 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: MONOCHROME.CTB PLOTTED: 5/22/2024 1:25 PM BY:
ZOANETTI, ANDREW



LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

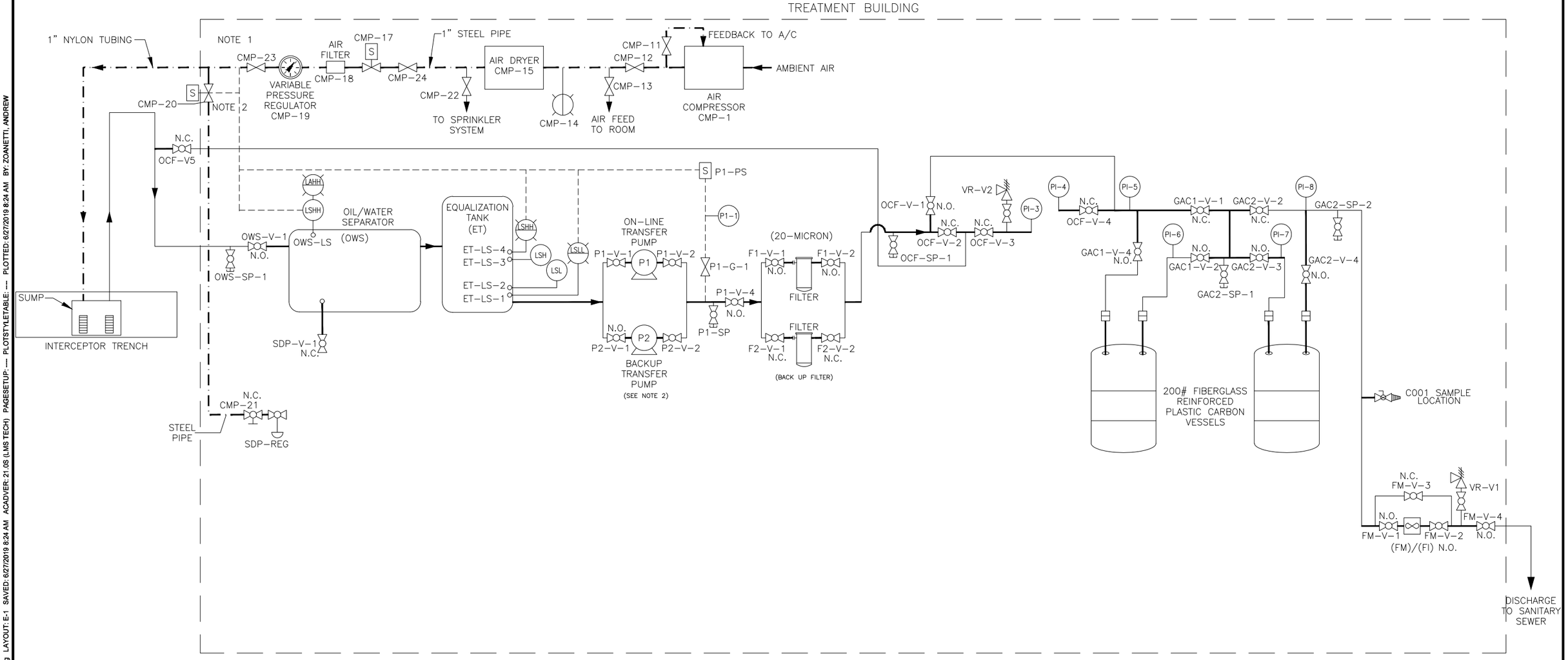
0 100' 200'

GRAPHIC SCALE

BRISTOL-MYERS SQUIBB COMPANY
IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE
CITY OF BUFFALO, ERIE COUNTY, NEW YORK

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Preservation: One 1L amber unpreserved glass bottle and two 40ml. clear vials every two hours.

Sample Date	4/3/24	4/3/24	4/3/24	4/3/24	JT6
Sample Time	0628	0828	1028	1228	JT6
Sample Observations	Clear	Clear	Clear	Clear	JT6
pH Measurement	7.61	7.34	7.50	7.38	JT6
Weather	490F Rain	490F Rain	470F Rain	460F Rain	JT6
Comments	None	None	None	None	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski 4/3/24

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	5/1/24	→	→	→	JTG
Sample Time	0635	0835	1035	1235	JTG
Sample Observations	clear	clear	clear	clear	JTG
pH Measurement	7.44	7.28	7.27	7.31	JTG
Weather	49°F Fog	50°F Fog	56°F Sunny	61°F Sunny	JTG
Comments	None	None	None	None	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski — Sample Technician

5/1/24 — Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Freq: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	6/4/24	→	→	→	JTG
Sample Time	0620	0820	1020	1220	JTG
Sample Observations	Clear	Clear	Clear	clear	JTG
pH Measurement	7.39	7.55	7.51	7.47	JTG
Weather	64°F Sunny	70°F Sunny	73°F Sunny	78°F Sunny	JTG
Comments	None	None	None	None	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski 6/4/24

Sample Technician Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

ARCADIS

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	3/26/2024	4/3/2024	4/9/2024	4/16/2024	4/23/2024	5/1/2024	5/8/2024
Totalizer	gal	NA	1,582,999	1,591,140	1,596,936	1,603,798	1,610,661	1,618,464	1,625,298
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	ND	NS
Total Zinc	lbs	3.0**	NS	ND	NS	NS	NS	ND	NS
Total Cyanide	lbs	7.93**	NS	3.90E-04 B	NS	NS	NS	5.20E-04 B	NS
Total VOCs	mg/L	NA	NS	ND	NS	NS	NS	ND	NS
Total SVOCs	mg/L	NA	NS	ND	NS	NS	NS	ND	NS
pH	SU	5.0-12.0	NS	7.4 HF	NS	NS	NS	7.5 HF	NS
Total Daily Flow	gal	14,400	-	1,018	966	980	980	975	976

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	5/15/2024	5/21/2024	5/29/2024	6/4/2024	6/11/2024	6/19/2024	6/25/2024
Totalizer	gal	NA	1,631,934	1,637,568	1,645,292	1,650,783	1,657,324	1,663,476	1,669,641
Total Mercury	lbs	0.00001**	NS	NS	NS	ND	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	NS	ND	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	NS	6.10E-04	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	NS	7.6 HF	NS	NS	NS
Total Daily Flow	gal	14,400	948	939	966	915	934	769	1,028

Notes:

B = Compound was found in the blank and the sample.
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
NA = Not Applicable
ND = Not Detected at the reporting limit
NS = Not Sampled
gal = Gallons
lbs = Pounds
mg/L = Milligrams per liter
SU = Standard Units
** = Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 4/15/2024 5:25:10 PM

JOB DESCRIPTION

Monthly Testing
Monthly Testing

JOB NUMBER

480-218429-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

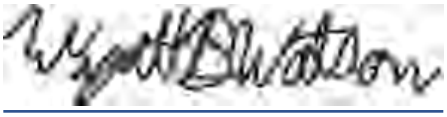
myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
4/15/2024 5:25:10 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 21
Lab Chronicle 23
Certification Summary 24
Method Summary 25
Sample Summary 26
Chain of Custody 27
Receipt Checklists 28

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-218429-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/3/2024 5:16 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

GC/MS VOA
Method 624.1_PREC: The following Volatile sample was composited by the laboratory on 04/04/2024 as requested by the client: 001 LAB COMP (480-218429-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1_PREC: The continuing calibration verification (CCV) associated with batch 480-706257 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK (480-218429-5) and 001 LAB COMP (480-218429-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-706271.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-218429-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-218429-5

No Detections.

Client Sample ID: 001 LAB COMP — Lab Sample ID: 480-218429-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.046	B	0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.3	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Client Sample ID: TRIP BLANK

Date Collected: 04/03/24 00:00
Date Received: 04/03/24 17:16

Lab Sample ID: 480-218429-5

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/04/24 16:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/04/24 16:54	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/04/24 16:54	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/04/24 16:54	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/04/24 16:54	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/04/24 16:54	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/04/24 16:54	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/04/24 16:54	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/04/24 16:54	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/04/24 16:54	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/04/24 16:54	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/04/24 16:54	1
Acrolein	ND		100	17	ug/L			04/04/24 16:54	1
Acrylonitrile	ND		50	1.9	ug/L			04/04/24 16:54	1
Benzene	ND		5.0	0.60	ug/L			04/04/24 16:54	1
Bromoform	ND		5.0	0.47	ug/L			04/04/24 16:54	1
Bromomethane	ND		5.0	1.2	ug/L			04/04/24 16:54	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/04/24 16:54	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/04/24 16:54	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/04/24 16:54	1
Chloroethane	ND		5.0	0.87	ug/L			04/04/24 16:54	1
Chloroform	ND		5.0	0.54	ug/L			04/04/24 16:54	1
Chloromethane	ND		5.0	0.64	ug/L			04/04/24 16:54	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/04/24 16:54	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/04/24 16:54	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/04/24 16:54	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/04/24 16:54	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/04/24 16:54	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/04/24 16:54	1
Toluene	ND		5.0	0.45	ug/L			04/04/24 16:54	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/04/24 16:54	1
Trichloroethene	ND		5.0	0.60	ug/L			04/04/24 16:54	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/04/24 16:54	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/04/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*		*04/04/24 16:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*04/04/24 16:54*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*04/04/24 16:54*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*04/04/24 16:54*	*1*

Client Sample ID: 001 LAB COMP

Date Collected: 04/03/24 00:00
Date Received: 04/03/24 17:16

Lab Sample ID: 480-218429-6

Matrix: Wastewater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/04/24 17:19	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/04/24 17:19	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/04/24 17:19	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/04/24 17:19	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/04/24 17:19	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/04/24 17:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/04/24 17:19	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/04/24 17:19	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/04/24 17:19	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/04/24 17:19	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/04/24 17:19	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/04/24 17:19	1
Acrolein	ND		100	17	ug/L			04/04/24 17:19	1
Acrylonitrile	ND		50	1.9	ug/L			04/04/24 17:19	1
Benzene	ND		5.0	0.60	ug/L			04/04/24 17:19	1
Bromoform	ND		5.0	0.47	ug/L			04/04/24 17:19	1
Bromomethane	ND		5.0	1.2	ug/L			04/04/24 17:19	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/04/24 17:19	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/04/24 17:19	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/04/24 17:19	1
Chloroethane	ND		5.0	0.87	ug/L			04/04/24 17:19	1
Chloroform	ND		5.0	0.54	ug/L			04/04/24 17:19	1
Chloromethane	ND		5.0	0.64	ug/L			04/04/24 17:19	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/04/24 17:19	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/04/24 17:19	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/04/24 17:19	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/04/24 17:19	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/04/24 17:19	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/04/24 17:19	1
Toluene	ND		5.0	0.45	ug/L			04/04/24 17:19	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/04/24 17:19	1
Trichloroethene	ND		5.0	0.60	ug/L			04/04/24 17:19	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/04/24 17:19	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/04/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*		*04/04/24 17:19*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*04/04/24 17:19*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*04/04/24 17:19*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*04/04/24 17:19*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		04/04/24 13:56	04/06/24 19:14	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		04/04/24 13:56	04/06/24 19:14	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		04/04/24 13:56	04/06/24 19:14	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		04/04/24 13:56	04/06/24 19:14	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		04/04/24 13:56	04/06/24 19:14	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		04/04/24 13:56	04/06/24 19:14	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		04/04/24 13:56	04/06/24 19:14	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Client Sample ID: 001 LAB COMP
Date Collected: 04/03/24 00:00
Date Received: 04/03/24 17:16

Lab Sample ID: 480-218429-6
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		04/04/24 13:56	04/06/24 19:14	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		04/04/24 13:56	04/06/24 19:14	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		04/04/24 13:56	04/06/24 19:14	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		04/04/24 13:56	04/06/24 19:14	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		04/04/24 13:56	04/06/24 19:14	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		04/04/24 13:56	04/06/24 19:14	1
2-Chlorophenol	ND		4.8	0.16	ug/L		04/04/24 13:56	04/06/24 19:14	1
2-Nitrophenol	ND		4.8	0.17	ug/L		04/04/24 13:56	04/06/24 19:14	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		04/04/24 13:56	04/06/24 19:14	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		04/04/24 13:56	04/06/24 19:14	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		04/04/24 13:56	04/06/24 19:14	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		04/04/24 13:56	04/06/24 19:14	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		04/04/24 13:56	04/06/24 19:14	1
4-Nitrophenol	ND		14	0.46	ug/L		04/04/24 13:56	04/06/24 19:14	1
Acenaphthene	ND		4.8	0.19	ug/L		04/04/24 13:56	04/06/24 19:14	1
Acenaphthylene	ND		4.8	0.21	ug/L		04/04/24 13:56	04/06/24 19:14	1
Anthracene	ND		4.8	0.33	ug/L		04/04/24 13:56	04/06/24 19:14	1
Benzidine	ND		76	13	ug/L		04/04/24 13:56	04/06/24 19:14	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		04/04/24 13:56	04/06/24 19:14	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		04/04/24 13:56	04/06/24 19:14	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		04/04/24 13:56	04/06/24 19:14	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		04/04/24 13:56	04/06/24 19:14	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		04/04/24 13:56	04/06/24 19:14	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		04/04/24 13:56	04/06/24 19:14	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		04/04/24 13:56	04/06/24 19:14	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		04/04/24 13:56	04/06/24 19:14	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		04/04/24 13:56	04/06/24 19:14	1
Chrysene	ND		4.8	0.24	ug/L		04/04/24 13:56	04/06/24 19:14	1
Decane	ND		9.5	0.38	ug/L		04/04/24 13:56	04/06/24 19:14	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		04/04/24 13:56	04/06/24 19:14	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		04/04/24 13:56	04/06/24 19:14	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		04/04/24 13:56	04/06/24 19:14	1
Diethyl phthalate	ND		4.8	0.24	ug/L		04/04/24 13:56	04/06/24 19:14	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		04/04/24 13:56	04/06/24 19:14	1
Fluoranthene	ND		4.8	0.38	ug/L		04/04/24 13:56	04/06/24 19:14	1
Fluorene	ND		4.8	0.24	ug/L		04/04/24 13:56	04/06/24 19:14	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		04/04/24 13:56	04/06/24 19:14	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		04/04/24 13:56	04/06/24 19:14	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		04/04/24 13:56	04/06/24 19:14	1
Hexachloroethane	ND		4.8	0.14	ug/L		04/04/24 13:56	04/06/24 19:14	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		04/04/24 13:56	04/06/24 19:14	1
Isophorone	ND		4.8	0.18	ug/L		04/04/24 13:56	04/06/24 19:14	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		04/04/24 13:56	04/06/24 19:14	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		04/04/24 13:56	04/06/24 19:14	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		04/04/24 13:56	04/06/24 19:14	1
Naphthalene	ND		4.8	0.20	ug/L		04/04/24 13:56	04/06/24 19:14	1
Nitrobenzene	ND		4.8	0.19	ug/L		04/04/24 13:56	04/06/24 19:14	1
Pentachlorophenol	ND		9.5	0.75	ug/L		04/04/24 13:56	04/06/24 19:14	1
Phenanthrene	ND		4.8	0.29	ug/L		04/04/24 13:56	04/06/24 19:14	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Client Sample ID: 001 LAB COMP

Date Collected: 04/03/24 00:00
Date Received: 04/03/24 17:16

Lab Sample ID: 480-218429-6

Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		04/04/24 13:56	04/06/24 19:14	1
Pyrene	ND		4.8	0.33	ug/L		04/04/24 13:56	04/06/24 19:14	1
n-Octadecane	ND		9.5	0.29	ug/L		04/04/24 13:56	04/06/24 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*52 - 151*	*04/04/24 13:56*	*04/06/24 19:14*	*1*
2-Fluorobiphenyl	*86*		*44 - 120*	*04/04/24 13:56*	*04/06/24 19:14*	*1*
2-Fluorophenol (Surr)	*53*		*17 - 120*	*04/04/24 13:56*	*04/06/24 19:14*	*1*
Nitrobenzene-d5 (Surr)	*86*		*15 - 314*	*04/04/24 13:56*	*04/06/24 19:14*	*1*
p-Terphenyl-d14 (Surr)	*86*		*22 - 125*	*04/04/24 13:56*	*04/06/24 19:14*	*1*
Phenol-d5 (Surr)	*34*		*8 - 424*	*04/04/24 13:56*	*04/06/24 19:14*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		04/05/24 09:51	04/08/24 11:32	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/12/24 17:11	04/13/24 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.046**	**B**	0.010	0.0041	mg/L			04/04/24 21:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.4**	**HF**	0.1	0.1	SU			04/05/24 17:13	1
Temperature (SM 4500 H+ B)	**19.3**	**HF**	0.001	0.001	Degrees C			04/05/24 17:13	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-218429-6	001 LAB COMP	98	94	99	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-706257/6	Lab Control Sample	98	99	101	101
MB 480-706257/8	Method Blank	102	96	101	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-218429-5	TRIP BLANK	98	97	100	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-218429-6	001 LAB COMP	91	86	53	86	86	34

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (52-151)	FBP (44-120)	2FP (17-120)	NBZ (15-314)	TPHd14 (22-125)	PHL (8-424)		
LCS 480-706271/2-A	Lab Control Sample	134	96	60	94	108	42		
LCSD 480-706271/3-A	Lab Control Sample Dup	129	94	59	91	103	42		
MB 480-706271/1-A	Method Blank	98	86	52	88	101	35		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-706257/8
Matrix: Water
Analysis Batch: 706257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/04/24 15:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/04/24 15:17	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/04/24 15:17	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/04/24 15:17	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/04/24 15:17	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/04/24 15:17	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/04/24 15:17	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/04/24 15:17	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/04/24 15:17	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/04/24 15:17	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/04/24 15:17	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/04/24 15:17	1
Acrolein	ND		100	17	ug/L			04/04/24 15:17	1
Acrylonitrile	ND		50	1.9	ug/L			04/04/24 15:17	1
Benzene	ND		5.0	0.60	ug/L			04/04/24 15:17	1
Bromoform	ND		5.0	0.47	ug/L			04/04/24 15:17	1
Bromomethane	ND		5.0	1.2	ug/L			04/04/24 15:17	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/04/24 15:17	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/04/24 15:17	1
Dibromochloromethane	ND		5.0	0.41	ug/L			04/04/24 15:17	1
Chloroethane	ND		5.0	0.87	ug/L			04/04/24 15:17	1
Chloroform	ND		5.0	0.54	ug/L			04/04/24 15:17	1
Chloromethane	ND		5.0	0.64	ug/L			04/04/24 15:17	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/04/24 15:17	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/04/24 15:17	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			04/04/24 15:17	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/04/24 15:17	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/04/24 15:17	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/04/24 15:17	1
Toluene	ND		5.0	0.45	ug/L			04/04/24 15:17	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/04/24 15:17	1
Trichloroethene	ND		5.0	0.60	ug/L			04/04/24 15:17	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			04/04/24 15:17	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/04/24 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*04/04/24 15:17*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*04/04/24 15:17*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*04/04/24 15:17*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*04/04/24 15:17*	*1*

Lab Sample ID: LCS 480-706257/6
Matrix: Water
Analysis Batch: 706257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	52 - 162
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		103	46 - 157

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-706257/6
Matrix: Water
Analysis Batch: 706257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.3		ug/L		102	52 - 150
1,1-Dichloroethane	20.0	19.5		ug/L		97	59 - 155
1,1-Dichloroethene	20.0	19.8		ug/L		99	1 - 234
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	18 - 190
1,2-Dichloroethane	20.0	19.5		ug/L		98	49 - 155
1,2-Dichloropropane	20.0	20.5		ug/L		102	1 - 210
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	59 - 156
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	18 - 190
2-Chloroethyl vinyl ether	20.0	21.4	J	ug/L		107	1 - 305
Benzene	20.0	19.7		ug/L		98	37 - 151
Bromoform	20.0	21.6		ug/L		108	45 - 169
Bromomethane	20.0	19.9		ug/L		100	1 - 242
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 140
Chlorobenzene	20.0	19.4		ug/L		97	37 - 160
Dibromochloromethane	20.0	19.6		ug/L		98	53 - 149
Chloroethane	20.0	25.3		ug/L		126	14 - 230
Chloroform	20.0	19.1		ug/L		96	51 - 138
Chloromethane	20.0	27.3		ug/L		136	1 - 273
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	1 - 227
Bromodichloromethane	20.0	19.5		ug/L		97	35 - 155
Ethylbenzene	20.0	19.1		ug/L		95	37 - 162
Methylene Chloride	20.0	20.1		ug/L		100	1 - 221
Tetrachloroethene	20.0	19.9		ug/L		100	64 - 148
Toluene	20.0	19.2		ug/L		96	47 - 150
trans-1,3-Dichloropropene	20.0	18.9		ug/L		94	17 - 183
Trichloroethene	20.0	19.5		ug/L		97	71 - 157
Trichlorofluoromethane	20.0	20.4		ug/L		102	17 - 181
Vinyl chloride	20.0	20.7		ug/L		103	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-706271/1-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		04/04/24 13:56	04/06/24 13:46	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		04/04/24 13:56	04/06/24 13:46	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		04/04/24 13:56	04/06/24 13:46	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		04/04/24 13:56	04/06/24 13:46	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		04/04/24 13:56	04/06/24 13:46	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		04/04/24 13:56	04/06/24 13:46	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		04/04/24 13:56	04/06/24 13:46	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-706271/1-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		04/04/24 13:56	04/06/24 13:46	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		04/04/24 13:56	04/06/24 13:46	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		04/04/24 13:56	04/06/24 13:46	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		04/04/24 13:56	04/06/24 13:46	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		04/04/24 13:56	04/06/24 13:46	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		04/04/24 13:56	04/06/24 13:46	1
2-Chlorophenol	ND		5.0	0.17	ug/L		04/04/24 13:56	04/06/24 13:46	1
2-Nitrophenol	ND		5.0	0.18	ug/L		04/04/24 13:56	04/06/24 13:46	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		04/04/24 13:56	04/06/24 13:46	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		04/04/24 13:56	04/06/24 13:46	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		04/04/24 13:56	04/06/24 13:46	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		04/04/24 13:56	04/06/24 13:46	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		04/04/24 13:56	04/06/24 13:46	1
4-Nitrophenol	ND		15	0.49	ug/L		04/04/24 13:56	04/06/24 13:46	1
Acenaphthene	ND		5.0	0.20	ug/L		04/04/24 13:56	04/06/24 13:46	1
Acenaphthylene	ND		5.0	0.22	ug/L		04/04/24 13:56	04/06/24 13:46	1
Anthracene	ND		5.0	0.35	ug/L		04/04/24 13:56	04/06/24 13:46	1
Benzidine	ND		80	14	ug/L		04/04/24 13:56	04/06/24 13:46	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		04/04/24 13:56	04/06/24 13:46	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		04/04/24 13:56	04/06/24 13:46	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		04/04/24 13:56	04/06/24 13:46	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		04/04/24 13:56	04/06/24 13:46	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		04/04/24 13:56	04/06/24 13:46	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		04/04/24 13:56	04/06/24 13:46	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		04/04/24 13:56	04/06/24 13:46	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		04/04/24 13:56	04/06/24 13:46	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		04/04/24 13:56	04/06/24 13:46	1
Chrysene	ND		5.0	0.25	ug/L		04/04/24 13:56	04/06/24 13:46	1
Decane	ND		10	0.40	ug/L		04/04/24 13:56	04/06/24 13:46	1
Di-n-butyl phthalate	0.522	J	5.0	0.40	ug/L		04/04/24 13:56	04/06/24 13:46	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		04/04/24 13:56	04/06/24 13:46	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		04/04/24 13:56	04/06/24 13:46	1
Diethyl phthalate	ND		5.0	0.25	ug/L		04/04/24 13:56	04/06/24 13:46	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		04/04/24 13:56	04/06/24 13:46	1
Fluoranthene	ND		5.0	0.40	ug/L		04/04/24 13:56	04/06/24 13:46	1
Fluorene	ND		5.0	0.25	ug/L		04/04/24 13:56	04/06/24 13:46	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		04/04/24 13:56	04/06/24 13:46	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		04/04/24 13:56	04/06/24 13:46	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		04/04/24 13:56	04/06/24 13:46	1
Hexachloroethane	ND		5.0	0.15	ug/L		04/04/24 13:56	04/06/24 13:46	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		04/04/24 13:56	04/06/24 13:46	1
Isophorone	ND		5.0	0.19	ug/L		04/04/24 13:56	04/06/24 13:46	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		04/04/24 13:56	04/06/24 13:46	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		04/04/24 13:56	04/06/24 13:46	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		04/04/24 13:56	04/06/24 13:46	1
Naphthalene	ND		5.0	0.22	ug/L		04/04/24 13:56	04/06/24 13:46	1
Nitrobenzene	ND		5.0	0.20	ug/L		04/04/24 13:56	04/06/24 13:46	1
Pentachlorophenol	ND		10	0.79	ug/L		04/04/24 13:56	04/06/24 13:46	1
Phenanthrene	ND		5.0	0.30	ug/L		04/04/24 13:56	04/06/24 13:46	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-706271/1-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		04/04/24 13:56	04/06/24 13:46	1
Pyrene	ND		5.0	0.35	ug/L		04/04/24 13:56	04/06/24 13:46	1
n-Octadecane	ND		10	0.30	ug/L		04/04/24 13:56	04/06/24 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*52 - 151*	*04/04/24 13:56*	*04/06/24 13:46*	*1*
2-Fluorobiphenyl	*86*		*44 - 120*	*04/04/24 13:56*	*04/06/24 13:46*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*04/04/24 13:56*	*04/06/24 13:46*	*1*
Nitrobenzene-d5 (Surr)	*88*		*15 - 314*	*04/04/24 13:56*	*04/06/24 13:46*	*1*
p-Terphenyl-d14 (Surr)	*101*		*22 - 125*	*04/04/24 13:56*	*04/06/24 13:46*	*1*
Phenol-d5 (Surr)	*35*		*8 - 424*	*04/04/24 13:56*	*04/06/24 13:46*	*1*

Lab Sample ID: LCS 480-706271/2-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 706271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	35.6		ug/L		71	44 - 142
1,2-Dichlorobenzene	50.0	31.7		ug/L		63	32 - 129
1,3-Dichlorobenzene	50.0	29.8		ug/L		60	1 - 172
1,4-Dichlorobenzene	50.0	30.4		ug/L		61	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	35.0		ug/L		70	36 - 166
2,4,6-Trichlorophenol	50.0	48.5		ug/L		97	37 - 144
2,4-Dichlorophenol	50.0	46.3		ug/L		93	39 - 135
2,4-Dimethylphenol	50.0	36.0		ug/L		72	32 - 120
2,4-Dinitrophenol	100	115		ug/L		115	1 - 191
2,4-Dinitrotoluene	50.0	52.8		ug/L		106	39 - 139
2,6-Dinitrotoluene	50.0	51.8		ug/L		104	50 - 158
2-Chloronaphthalene	50.0	41.3		ug/L		83	60 - 120
2-Chlorophenol	50.0	40.9		ug/L		82	23 - 134
2-Nitrophenol	50.0	53.7		ug/L		107	29 - 182
3,3'-Dichlorobenzidine	100	108		ug/L		108	1 - 262
4,6-Dinitro-2-methylphenol	100	116		ug/L		116	1 - 181
4-Bromophenyl phenyl ether	50.0	48.8		ug/L		98	53 - 127
4-Chloro-3-methylphenol	50.0	48.8		ug/L		98	22 - 147
4-Chlorophenyl phenyl ether	50.0	47.1		ug/L		94	25 - 158
4-Nitrophenol	100	59.4		ug/L		59	1 - 132
Acenaphthene	50.0	45.4		ug/L		91	47 - 145
Acenaphthylene	50.0	40.6		ug/L		81	33 - 145
Anthracene	50.0	47.6		ug/L		95	27 - 133
Benzidine	100	45.2	J	ug/L		45	1 - 120
Benzo[a]anthracene	50.0	49.0		ug/L		98	33 - 143
Benzo[a]pyrene	50.0	53.8		ug/L		108	17 - 163
Benzo[b]fluoranthene	50.0	51.6		ug/L		103	24 - 159
Benzo[g,h,i]perylene	50.0	53.0		ug/L		106	1 - 219
Benzo[k]fluoranthene	50.0	48.6		ug/L		97	11 - 162
Bis(2-chloroethoxy)methane	50.0	42.9		ug/L		86	33 - 184
Bis(2-chloroethyl)ether	50.0	42.2		ug/L		84	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-706271/2-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 706271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	47.4		ug/L		95	8 - 158
Butyl benzyl phthalate	50.0	49.9		ug/L		100	1 - 152
Chrysene	50.0	50.9		ug/L		102	17 - 168
Di-n-butyl phthalate	50.0	49.7		ug/L		99	1 - 120
Di-n-octyl phthalate	50.0	48.0		ug/L		96	4 - 146
Dibenz(a,h)anthracene	50.0	55.0		ug/L		110	1 - 227
Diethyl phthalate	50.0	49.7		ug/L		99	1 - 120
Dimethyl phthalate	50.0	50.0		ug/L		100	1 - 120
Fluoranthene	50.0	50.0		ug/L		100	26 - 137
Fluorene	50.0	44.1		ug/L		88	59 - 121
Hexachlorobenzene	50.0	54.6		ug/L		109	1 - 152
Hexachlorocyclopentadiene	50.0	12.9		ug/L		26	5 - 120
Hexachloroethane	50.0	26.6		ug/L		53	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	59.5		ug/L		119	1 - 171
Isophorone	50.0	45.4		ug/L		91	21 - 196
N-Nitrosodi-n-propylamine	50.0	43.2		ug/L		86	1 - 230
N-Nitrosodiphenylamine	50.0	46.6		ug/L		93	54 - 125
Naphthalene	50.0	39.1		ug/L		78	21 - 133
Nitrobenzene	50.0	42.2		ug/L		84	35 - 180
Pentachlorophenol	100	98.8		ug/L		99	14 - 176
Phenanthrene	50.0	48.5		ug/L		97	54 - 120
Phenol	50.0	18.6		ug/L		37	5 - 120
Pyrene	50.0	49.4		ug/L		99	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*134*		*52 - 151*
2-Fluorobiphenyl	*96*		*44 - 120*
2-Fluorophenol (Surr)	*60*		*17 - 120*
Nitrobenzene-d5 (Surr)	*94*		*15 - 314*
p-Terphenyl-d14 (Surr)	*108*		*22 - 125*
Phenol-d5 (Surr)	*42*		*8 - 424*

Lab Sample ID: LCSD 480-706271/3-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 706271

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	34.2		ug/L		68	44 - 142	4	34
1,2-Dichlorobenzene	50.0	31.0		ug/L		62	32 - 129	2	38
1,3-Dichlorobenzene	50.0	29.4		ug/L		59	1 - 172	1	37
1,4-Dichlorobenzene	50.0	29.8		ug/L		60	20 - 124	2	40
2,2'-Oxybis(1-chloropropane)	50.0	34.8		ug/L		70	36 - 166	1	36
2,4,6-Trichlorophenol	50.0	49.1		ug/L		98	37 - 144	1	20
2,4-Dichlorophenol	50.0	45.5		ug/L		91	39 - 135	2	23
2,4-Dimethylphenol	50.0	35.5		ug/L		71	32 - 120	1	18
2,4-Dinitrophenol	100	118		ug/L		118	1 - 191	3	29
2,4-Dinitrotoluene	50.0	52.0		ug/L		104	39 - 139	2	20
2,6-Dinitrotoluene	50.0	51.0		ug/L		102	50 - 158	2	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-706271/3-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 706271

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			50.0	40.7		ug/L		81	60 - 120	2	30
2-Chlorophenol			50.0	41.6		ug/L		83	23 - 134	2	26
2-Nitrophenol			50.0	51.8		ug/L		104	29 - 182	4	28
3,3'-Dichlorobenzidine			100	107		ug/L		107	1 - 262	1	31
4,6-Dinitro-2-methylphenol			100	114		ug/L		114	1 - 181	2	30
4-Bromophenyl phenyl ether			50.0	46.4		ug/L		93	53 - 127	5	16
4-Chloro-3-methylphenol			50.0	48.3		ug/L		97	22 - 147	1	16
4-Chlorophenyl phenyl ether			50.0	45.1		ug/L		90	25 - 158	4	15
4-Nitrophenol			100	60.6		ug/L		61	1 - 132	2	24
Acenaphthene			50.0	44.2		ug/L		88	47 - 145	3	25
Acenaphthylene			50.0	39.5		ug/L		79	33 - 145	3	22
Anthracene			50.0	45.5		ug/L		91	27 - 133	4	15
Benzidine			100	46.8	J	ug/L		47	1 - 120	3	50
Benzo[a]anthracene			50.0	48.8		ug/L		98	33 - 143	0	15
Benzo[a]pyrene			50.0	50.7		ug/L		101	17 - 163	6	15
Benzo[b]fluoranthene			50.0	47.7		ug/L		95	24 - 159	8	17
Benzo[g,h,i]perylene			50.0	49.1		ug/L		98	1 - 219	8	19
Benzo[k]fluoranthene			50.0	47.2		ug/L		94	11 - 162	3	19
Bis(2-chloroethoxy)methane			50.0	41.4		ug/L		83	33 - 184	3	23
Bis(2-chloroethyl)ether			50.0	42.2		ug/L		84	12 - 158	0	33
Bis(2-ethylhexyl) phthalate			50.0	45.9		ug/L		92	8 - 158	3	15
Butyl benzyl phthalate			50.0	47.9		ug/L		96	1 - 152	4	15
Chrysene			50.0	48.2		ug/L		96	17 - 168	6	15
Di-n-butyl phthalate			50.0	48.0		ug/L		96	1 - 120	4	15
Di-n-octyl phthalate			50.0	47.3		ug/L		95	4 - 146	2	15
Dibenz(a,h)anthracene			50.0	50.6		ug/L		101	1 - 227	8	18
Diethyl phthalate			50.0	48.8		ug/L		98	1 - 120	2	15
Dimethyl phthalate			50.0	48.4		ug/L		97	1 - 120	3	15
Fluoranthene			50.0	48.0		ug/L		96	26 - 137	4	15
Fluorene			50.0	43.4		ug/L		87	59 - 121	2	18
Hexachlorobenzene			50.0	52.0		ug/L		104	1 - 152	5	15
Hexachlorocyclopentadiene			50.0	13.3		ug/L		27	5 - 120	3	50
Hexachloroethane			50.0	25.9		ug/L		52	40 - 120	3	43
Indeno[1,2,3-cd]pyrene			50.0	55.8		ug/L		112	1 - 171	6	17
Isophorone			50.0	44.0		ug/L		88	21 - 196	3	21
N-Nitrosodi-n-propylamine			50.0	42.4		ug/L		85	1 - 230	2	23
N-Nitrosodiphenylamine			50.0	45.5		ug/L		91	54 - 125	2	15
Naphthalene			50.0	37.0		ug/L		74	21 - 133	6	31
Nitrobenzene			50.0	40.7		ug/L		81	35 - 180	4	27
Pentachlorophenol			100	101		ug/L		101	14 - 176	2	21
Phenanthrene			50.0	46.7		ug/L		93	54 - 120	4	16
Phenol			50.0	18.4		ug/L		37	5 - 120	1	36
Pyrene			50.0	48.1		ug/L		96	52 - 120	3	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*129*		*52 - 151*
2-Fluorobiphenyl	*94*		*44 - 120*
2-Fluorophenol (Surr)	*59*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-706271/3-A
Matrix: Water
Analysis Batch: 706595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 706271

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*91*		*15 - 314*
p-Terphenyl-d14 (Surr)	*103*		*22 - 125*
Phenol-d5 (Surr)	*42*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-706323/1-A
Matrix: Water
Analysis Batch: 706860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 706323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0015	mg/L		04/05/24 09:51	04/08/24 10:22	1

Lab Sample ID: LCS 480-706323/2-A
Matrix: Water
Analysis Batch: 706860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 706323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.526		mg/L		105	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-707434/1-A
Matrix: Water
Analysis Batch: 707565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 707434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		04/12/24 17:11	04/13/24 11:31	1

Lab Sample ID: LCS 480-707434/2-A
Matrix: Water
Analysis Batch: 707565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 707434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00635		mg/L		95	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-706357/102
Matrix: Water
Analysis Batch: 706357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00420	J	0.010	0.0041	mg/L			04/04/24 22:58	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: MB 480-706357/47
Matrix: Water
Analysis Batch: 706357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00560	J	0.010	0.0041	mg/L			04/04/24 20:30	1

Lab Sample ID: MB 480-706357/75
Matrix: Water
Analysis Batch: 706357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00650	J	0.010	0.0041	mg/L			04/04/24 21:44	1

Lab Sample ID: HLCS 480-706357/22
Matrix: Water
Analysis Batch: 706357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.373		mg/L		93	90 - 110

Lab Sample ID: LCS 480-706357/103
Matrix: Water
Analysis Batch: 706357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.240		mg/L		96	90 - 110

Lab Sample ID: LCS 480-706357/48
Matrix: Water
Analysis Batch: 706357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.253		mg/L		101	90 - 110

Lab Sample ID: LCS 480-706357/76
Matrix: Water
Analysis Batch: 706357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-706566/1
Matrix: Water
Analysis Batch: 706566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

GC/MS VOA

Analysis Batch: 706257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-5	TRIP BLANK	Total/NA	WQ	624.1	
480-218429-6	001 LAB COMP	Total/NA	Wastewater	624.1	
MB 480-706257/8	Method Blank	Total/NA	Water	624.1	
LCS 480-706257/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 706271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-706271/1-A	Method Blank	Total/NA	Water	625	
LCS 480-706271/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-706271/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 706595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	625.1	706271
MB 480-706271/1-A	Method Blank	Total/NA	Water	625.1	706271
LCS 480-706271/2-A	Lab Control Sample	Total/NA	Water	625.1	706271
LCSD 480-706271/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	706271

Metals

Prep Batch: 706323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	200.7	
MB 480-706323/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-706323/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 706860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	706323
MB 480-706323/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	706323
LCS 480-706323/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	706323

Prep Batch: 707434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 480-707434/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-707434/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 707565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	245.1	707434
MB 480-707434/1-A	Method Blank	Total/NA	Water	245.1	707434
LCS 480-707434/2-A	Lab Control Sample	Total/NA	Water	245.1	707434

General Chemistry

Analysis Batch: 706357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	335.4	

General Chemistry (Continued)

Analysis Batch: 706357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-706357/102	Method Blank	Total/NA	Water	335.4	
MB 480-706357/47	Method Blank	Total/NA	Water	335.4	
MB 480-706357/75	Method Blank	Total/NA	Water	335.4	
HLCS 480-706357/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-706357/103	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-706357/48	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-706357/76	Lab Control Sample	Total/NA	Water	335.4	

Analysis Batch: 706566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-218429-6	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-706566/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-218429-5
Matrix: WQ
Date Collected: 04/03/24 00:00
Date Received: 04/03/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	706257	AXK	EET BUF	04/04/24 16:54

Client Sample ID: 001 LAB COMP

Lab Sample ID: 480-218429-6
Matrix: Wastewater
Date Collected: 04/03/24 00:00
Date Received: 04/03/24 17:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	706257	AXK	EET BUF	04/04/24 17:19
Total/NA	Prep	625			706271	LSC	EET BUF	04/04/24 13:56
Total/NA	Analysis	625.1		1	706595	JMM	EET BUF	04/06/24 19:14
Total/NA	Prep	200.7			706323	EMO	EET BUF	04/05/24 09:51
Total/NA	Analysis	200.7 Rev 4.4		1	706860	BMB	EET BUF	04/08/24 11:32
Total/NA	Prep	245.1			707434	ESB	EET BUF	04/12/24 17:11
Total/NA	Analysis	245.1		1	707565	BMB	EET BUF	04/13/24 11:51
Total/NA	Analysis	335.4		1	706357	GW	EET BUF	04/04/24 21:58
Total/NA	Analysis	SM 4500 H+ B		1	706566	KB	EET BUF	04/05/24 17:13

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-218429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-218429-5	TRIP BLANK	WQ	04/03/24 00:00	04/03/24 17:16
480-218429-6	001 LAB COMP	Wastewater	04/03/24 00:00	04/03/24 17:16

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information
Client Contact: Jason Gutkowski
Company: Arcadis U.S., Inc.
Address: One Lincoln Center 110 West Fayette St, Suite 300
City: Syracuse
State, Zip: NY, 13202
Phone:
Email: jason.gutkowski@arcadis.com
Project Name: Iroquois Gas/Westwood Pharm. Monthly
Site: New York

Sampler: Jason Gutkowski
Phone: 3154363605
PWSID:
Due Date Requested:
TAT Requested (days): Standard Turn
Compliance Project: Δ Yes Δ No
PO #: Needed 30185775
WO #: 30003542-00001
Project #: 48011056
SSOW#:

Lab PM: Schove, John R
E-Mail: John.Schove@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-193790-34075.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	D	N	B		
001-1	4/3/24	0628	G	Water			X	X	X	X	X	3	Lab To
001-2		0828		Water			X	X	X	X	X	3	Composite
001-3		1028					X	X	X	X	X	3	Samples
001-4		1228					X	X	X	X	X	3	
TripBlank		—						X				2	
													Short Hold Time

480-218429 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:
Relinquished by: Dan Rhodes	Date/Time: 4/3/24 1302	Company: Arcadis	Received by:	Date/Time: 4/3/24 1302	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.8 #1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-218429-1

Login Number: 218429
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 5/22/2024 12:59:17 PM

JOB DESCRIPTION

Monthly Testing
Monthly Testing

JOB NUMBER

480-219420-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

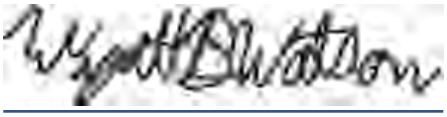
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
5/22/2024 12:59:17 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 23
Lab Chronicle 25
Certification Summary 26
Method Summary 27
Sample Summary 28
Chain of Custody 29
Receipt Checklists 31

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-219420-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/2/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 05/02/2024 as requested by the client: 001 LAB COMP (480-219420-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 625.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-710524 and analytical batch 480-710782 were below the method detection limit (MDL) for Benzidine. Percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-219420-6).

Methods 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-711575 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (480-219421-E-5), (480-219421-E-5 MS) and (480-219421-E-5 MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-219420-5

No Detections.

Client Sample ID: 001 LAB COMP — Lab Sample ID: 480-219420-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.064	B	0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.3	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Client Sample ID: TRIP BLANK

Date Collected: 05/01/24 00:00
Date Received: 05/02/24 09:00

Lab Sample ID: 480-219420-5

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			05/02/24 20:08	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			05/02/24 20:08	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			05/02/24 20:08	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			05/02/24 20:08	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			05/02/24 20:08	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			05/02/24 20:08	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			05/02/24 20:08	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			05/02/24 20:08	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			05/02/24 20:08	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			05/02/24 20:08	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			05/02/24 20:08	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			05/02/24 20:08	1
Acrolein	ND		100	17	ug/L			05/02/24 20:08	1
Acrylonitrile	ND		50	1.9	ug/L			05/02/24 20:08	1
Benzene	ND		5.0	0.60	ug/L			05/02/24 20:08	1
Bromoform	ND		5.0	0.47	ug/L			05/02/24 20:08	1
Bromomethane	ND		5.0	1.2	ug/L			05/02/24 20:08	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			05/02/24 20:08	1
Chlorobenzene	ND		5.0	0.48	ug/L			05/02/24 20:08	1
Dibromochloromethane	ND		5.0	0.41	ug/L			05/02/24 20:08	1
Chloroethane	ND		5.0	0.87	ug/L			05/02/24 20:08	1
Chloroform	ND		5.0	0.54	ug/L			05/02/24 20:08	1
Chloromethane	ND		5.0	0.64	ug/L			05/02/24 20:08	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			05/02/24 20:08	1
Bromodichloromethane	ND		5.0	0.54	ug/L			05/02/24 20:08	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			05/02/24 20:08	1
Ethylbenzene	ND		5.0	0.46	ug/L			05/02/24 20:08	1
Methylene Chloride	ND		5.0	0.81	ug/L			05/02/24 20:08	1
Tetrachloroethene	ND		5.0	0.34	ug/L			05/02/24 20:08	1
Toluene	ND		5.0	0.45	ug/L			05/02/24 20:08	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			05/02/24 20:08	1
Trichloroethene	ND		5.0	0.60	ug/L			05/02/24 20:08	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			05/02/24 20:08	1
Vinyl chloride	ND		5.0	0.75	ug/L			05/02/24 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*68 - 130*		*05/02/24 20:08*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*05/02/24 20:08*	*1*
Toluene-d8 (Surr)	*94*		*77 - 120*		*05/02/24 20:08*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*05/02/24 20:08*	*1*

Client Sample ID: 001 LAB COMP

Date Collected: 05/01/24 00:00
Date Received: 05/02/24 09:00

Lab Sample ID: 480-219420-6

Matrix: Wastewater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			05/02/24 20:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			05/02/24 20:32	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			05/02/24 20:32	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			05/02/24 20:32	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			05/02/24 20:32	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			05/02/24 20:32	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			05/02/24 20:32	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			05/02/24 20:32	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			05/02/24 20:32	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			05/02/24 20:32	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			05/02/24 20:32	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			05/02/24 20:32	1
Acrolein	ND		100	17	ug/L			05/02/24 20:32	1
Acrylonitrile	ND		50	1.9	ug/L			05/02/24 20:32	1
Benzene	ND		5.0	0.60	ug/L			05/02/24 20:32	1
Bromoform	ND		5.0	0.47	ug/L			05/02/24 20:32	1
Bromomethane	ND		5.0	1.2	ug/L			05/02/24 20:32	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			05/02/24 20:32	1
Chlorobenzene	ND		5.0	0.48	ug/L			05/02/24 20:32	1
Dibromochloromethane	ND		5.0	0.41	ug/L			05/02/24 20:32	1
Chloroethane	ND		5.0	0.87	ug/L			05/02/24 20:32	1
Chloroform	ND		5.0	0.54	ug/L			05/02/24 20:32	1
Chloromethane	ND		5.0	0.64	ug/L			05/02/24 20:32	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			05/02/24 20:32	1
Bromodichloromethane	ND		5.0	0.54	ug/L			05/02/24 20:32	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			05/02/24 20:32	1
Ethylbenzene	ND		5.0	0.46	ug/L			05/02/24 20:32	1
Methylene Chloride	ND		5.0	0.81	ug/L			05/02/24 20:32	1
Tetrachloroethene	ND		5.0	0.34	ug/L			05/02/24 20:32	1
Toluene	ND		5.0	0.45	ug/L			05/02/24 20:32	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			05/02/24 20:32	1
Trichloroethene	ND		5.0	0.60	ug/L			05/02/24 20:32	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			05/02/24 20:32	1
Vinyl chloride	ND		5.0	0.75	ug/L			05/02/24 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*68 - 130*		*05/02/24 20:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*05/02/24 20:32*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*05/02/24 20:32*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*05/02/24 20:32*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		05/03/24 09:15	05/06/24 19:56	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		05/03/24 09:15	05/06/24 19:56	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		05/03/24 09:15	05/06/24 19:56	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		05/03/24 09:15	05/06/24 19:56	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		05/03/24 09:15	05/06/24 19:56	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		05/03/24 09:15	05/06/24 19:56	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		05/03/24 09:15	05/06/24 19:56	1

Client Sample ID: 001 LAB COMP
Date Collected: 05/01/24 00:00
Date Received: 05/02/24 09:00

Lab Sample ID: 480-219420-6
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		05/03/24 09:15	05/06/24 19:56	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		05/03/24 09:15	05/06/24 19:56	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		05/03/24 09:15	05/06/24 19:56	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		05/03/24 09:15	05/06/24 19:56	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		05/03/24 09:15	05/06/24 19:56	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		05/03/24 09:15	05/06/24 19:56	1
2-Chlorophenol	ND		4.8	0.16	ug/L		05/03/24 09:15	05/06/24 19:56	1
2-Nitrophenol	ND		4.8	0.17	ug/L		05/03/24 09:15	05/06/24 19:56	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		05/03/24 09:15	05/06/24 19:56	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		05/03/24 09:15	05/06/24 19:56	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		05/03/24 09:15	05/06/24 19:56	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		05/03/24 09:15	05/06/24 19:56	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		05/03/24 09:15	05/06/24 19:56	1
4-Nitrophenol	ND		14	0.46	ug/L		05/03/24 09:15	05/06/24 19:56	1
Acenaphthene	ND		4.8	0.19	ug/L		05/03/24 09:15	05/06/24 19:56	1
Acenaphthylene	ND		4.8	0.21	ug/L		05/03/24 09:15	05/06/24 19:56	1
Anthracene	ND		4.8	0.33	ug/L		05/03/24 09:15	05/06/24 19:56	1
Benzidine	ND	F1	76	13	ug/L		05/03/24 09:15	05/06/24 19:56	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		05/03/24 09:15	05/06/24 19:56	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		05/03/24 09:15	05/06/24 19:56	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		05/03/24 09:15	05/06/24 19:56	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		05/03/24 09:15	05/06/24 19:56	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		05/03/24 09:15	05/06/24 19:56	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		05/03/24 09:15	05/06/24 19:56	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		05/03/24 09:15	05/06/24 19:56	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		05/03/24 09:15	05/06/24 19:56	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		05/03/24 09:15	05/06/24 19:56	1
Chrysene	ND		4.8	0.24	ug/L		05/03/24 09:15	05/06/24 19:56	1
Decane	ND		9.5	0.38	ug/L		05/03/24 09:15	05/06/24 19:56	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		05/03/24 09:15	05/06/24 19:56	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		05/03/24 09:15	05/06/24 19:56	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		05/03/24 09:15	05/06/24 19:56	1
Diethyl phthalate	ND		4.8	0.24	ug/L		05/03/24 09:15	05/06/24 19:56	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		05/03/24 09:15	05/06/24 19:56	1
Fluoranthene	ND		4.8	0.38	ug/L		05/03/24 09:15	05/06/24 19:56	1
Fluorene	ND		4.8	0.24	ug/L		05/03/24 09:15	05/06/24 19:56	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		05/03/24 09:15	05/06/24 19:56	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		05/03/24 09:15	05/06/24 19:56	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		05/03/24 09:15	05/06/24 19:56	1
Hexachloroethane	ND		4.8	0.14	ug/L		05/03/24 09:15	05/06/24 19:56	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		05/03/24 09:15	05/06/24 19:56	1
Isophorone	ND		4.8	0.18	ug/L		05/03/24 09:15	05/06/24 19:56	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		05/03/24 09:15	05/06/24 19:56	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		05/03/24 09:15	05/06/24 19:56	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		05/03/24 09:15	05/06/24 19:56	1
Naphthalene	ND		4.8	0.20	ug/L		05/03/24 09:15	05/06/24 19:56	1
Nitrobenzene	ND		4.8	0.19	ug/L		05/03/24 09:15	05/06/24 19:56	1
Pentachlorophenol	ND		9.5	0.75	ug/L		05/03/24 09:15	05/06/24 19:56	1
Phenanthrene	ND		4.8	0.29	ug/L		05/03/24 09:15	05/06/24 19:56	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Client Sample ID: 001 LAB COMP

Date Collected: 05/01/24 00:00
Date Received: 05/02/24 09:00

Lab Sample ID: 480-219420-6

Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		05/03/24 09:15	05/06/24 19:56	1
Pyrene	ND		4.8	0.33	ug/L		05/03/24 09:15	05/06/24 19:56	1
n-Octadecane	ND		9.5	0.29	ug/L		05/03/24 09:15	05/06/24 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*52 - 151*	*05/03/24 09:15*	*05/06/24 19:56*	*1*
2-Fluorobiphenyl	*55*		*44 - 120*	*05/03/24 09:15*	*05/06/24 19:56*	*1*
2-Fluorophenol (Surr)	*27*		*17 - 120*	*05/03/24 09:15*	*05/06/24 19:56*	*1*
Nitrobenzene-d5 (Surr)	*49*		*15 - 314*	*05/03/24 09:15*	*05/06/24 19:56*	*1*
p-Terphenyl-d14 (Surr)	*79*		*22 - 125*	*05/03/24 09:15*	*05/06/24 19:56*	*1*
Phenol-d5 (Surr)	*19*		*8 - 424*	*05/03/24 09:15*	*05/06/24 19:56*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.030	0.0045	mg/L		05/16/24 10:07	05/20/24 17:47	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		05/16/24 13:29	05/16/24 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.064**	**B**	0.010	0.0041	mg/L			05/09/24 22:36	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1	0.1	SU			05/06/24 18:22	1
Temperature (SM 4500 H+ B)	**19.3**	**HF**	0.001	0.001	Degrees C			05/06/24 18:22	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-219420-6	001 LAB COMP	117	98	96	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-710410/6	Lab Control Sample	116	101	96	108
MB 480-710410/8	Method Blank	118	96	95	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-219420-5	TRIP BLANK	115	96	94	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-219420-6	001 LAB COMP	62	55	27	49	79	19
480-219420-6 MS	001 LAB COMP	101	90	47	83	82	37
480-219420-6 MSD	001 LAB COMP	101	85	44	80	90	34

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

PHL = Phenol-d5 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)		
LCS 480-710524/2-A	Lab Control Sample	103	95	48	88	100	38		
MB 480-710524/1-A	Method Blank	90	86	45	81	99	34		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-710410/8
Matrix: Water
Analysis Batch: 710410

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			05/02/24 17:42	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			05/02/24 17:42	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			05/02/24 17:42	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			05/02/24 17:42	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			05/02/24 17:42	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			05/02/24 17:42	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			05/02/24 17:42	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			05/02/24 17:42	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			05/02/24 17:42	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			05/02/24 17:42	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			05/02/24 17:42	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			05/02/24 17:42	1
Acrolein	ND		100	17	ug/L			05/02/24 17:42	1
Acrylonitrile	ND		50	1.9	ug/L			05/02/24 17:42	1
Benzene	ND		5.0	0.60	ug/L			05/02/24 17:42	1
Bromoform	ND		5.0	0.47	ug/L			05/02/24 17:42	1
Bromomethane	ND		5.0	1.2	ug/L			05/02/24 17:42	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			05/02/24 17:42	1
Chlorobenzene	ND		5.0	0.48	ug/L			05/02/24 17:42	1
Dibromochloromethane	ND		5.0	0.41	ug/L			05/02/24 17:42	1
Chloroethane	ND		5.0	0.87	ug/L			05/02/24 17:42	1
Chloroform	ND		5.0	0.54	ug/L			05/02/24 17:42	1
Chloromethane	ND		5.0	0.64	ug/L			05/02/24 17:42	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			05/02/24 17:42	1
Bromodichloromethane	ND		5.0	0.54	ug/L			05/02/24 17:42	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			05/02/24 17:42	1
Ethylbenzene	ND		5.0	0.46	ug/L			05/02/24 17:42	1
Methylene Chloride	ND		5.0	0.81	ug/L			05/02/24 17:42	1
Tetrachloroethene	ND		5.0	0.34	ug/L			05/02/24 17:42	1
Toluene	ND		5.0	0.45	ug/L			05/02/24 17:42	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			05/02/24 17:42	1
Trichloroethene	ND		5.0	0.60	ug/L			05/02/24 17:42	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			05/02/24 17:42	1
Vinyl chloride	ND		5.0	0.75	ug/L			05/02/24 17:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*68 - 130*		*05/02/24 17:42*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*05/02/24 17:42*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*05/02/24 17:42*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*05/02/24 17:42*	*1*

Lab Sample ID: LCS 480-710410/6
Matrix: Water
Analysis Batch: 710410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	23.5		ug/L		118	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	18.0		ug/L		90	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-710410/6
Matrix: Water
Analysis Batch: 710410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	19.9		ug/L		99	52 - 150
1,1-Dichloroethane	20.0	20.5		ug/L		102	59 - 155
1,1-Dichloroethene	20.0	21.8		ug/L		109	1 - 234
1,2-Dichlorobenzene	20.0	20.1		ug/L		100	18 - 190
1,2-Dichloroethane	20.0	23.5		ug/L		117	49 - 155
1,2-Dichloropropane	20.0	20.5		ug/L		102	1 - 210
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	59 - 156
1,4-Dichlorobenzene	20.0	20.3		ug/L		101	18 - 190
2-Chloroethyl vinyl ether	20.0	22.3	J	ug/L		111	1 - 305
Benzene	20.0	19.7		ug/L		99	37 - 151
Bromoform	20.0	25.8		ug/L		129	45 - 169
Bromomethane	20.0	16.7		ug/L		83	1 - 242
Carbon tetrachloride	20.0	23.1		ug/L		115	70 - 140
Chlorobenzene	20.0	20.0		ug/L		100	37 - 160
Dibromochloromethane	20.0	22.8		ug/L		114	53 - 149
Chloroethane	20.0	20.4		ug/L		102	14 - 230
Chloroform	20.0	21.8		ug/L		109	51 - 138
Chloromethane	20.0	26.8		ug/L		134	1 - 273
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	1 - 227
Bromodichloromethane	20.0	22.7		ug/L		114	35 - 155
Ethylbenzene	20.0	20.5		ug/L		102	37 - 162
Methylene Chloride	20.0	20.9		ug/L		105	1 - 221
Tetrachloroethene	20.0	23.4		ug/L		117	64 - 148
Toluene	20.0	19.7		ug/L		99	47 - 150
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	17 - 183
Trichloroethene	20.0	21.7		ug/L		108	71 - 157
Trichlorofluoromethane	20.0	23.5		ug/L		117	17 - 181
Vinyl chloride	20.0	17.7		ug/L		88	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*68 - 130*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*96*		*77 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-710524/1-A
Matrix: Water
Analysis Batch: 710782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 710524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		05/03/24 09:15	05/06/24 18:14	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		05/03/24 09:15	05/06/24 18:14	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		05/03/24 09:15	05/06/24 18:14	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		05/03/24 09:15	05/06/24 18:14	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		05/03/24 09:15	05/06/24 18:14	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		05/03/24 09:15	05/06/24 18:14	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		05/03/24 09:15	05/06/24 18:14	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-710524/1-A
Matrix: Water
Analysis Batch: 710782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 710524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		05/03/24 09:15	05/06/24 18:14	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		05/03/24 09:15	05/06/24 18:14	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		05/03/24 09:15	05/06/24 18:14	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		05/03/24 09:15	05/06/24 18:14	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		05/03/24 09:15	05/06/24 18:14	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		05/03/24 09:15	05/06/24 18:14	1
2-Chlorophenol	ND		5.0	0.17	ug/L		05/03/24 09:15	05/06/24 18:14	1
2-Nitrophenol	ND		5.0	0.18	ug/L		05/03/24 09:15	05/06/24 18:14	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/03/24 09:15	05/06/24 18:14	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		05/03/24 09:15	05/06/24 18:14	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		05/03/24 09:15	05/06/24 18:14	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		05/03/24 09:15	05/06/24 18:14	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		05/03/24 09:15	05/06/24 18:14	1
4-Nitrophenol	ND		15	0.49	ug/L		05/03/24 09:15	05/06/24 18:14	1
Acenaphthene	ND		5.0	0.20	ug/L		05/03/24 09:15	05/06/24 18:14	1
Acenaphthylene	ND		5.0	0.22	ug/L		05/03/24 09:15	05/06/24 18:14	1
Anthracene	ND		5.0	0.35	ug/L		05/03/24 09:15	05/06/24 18:14	1
Benzidine	ND		80	14	ug/L		05/03/24 09:15	05/06/24 18:14	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		05/03/24 09:15	05/06/24 18:14	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		05/03/24 09:15	05/06/24 18:14	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		05/03/24 09:15	05/06/24 18:14	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		05/03/24 09:15	05/06/24 18:14	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		05/03/24 09:15	05/06/24 18:14	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		05/03/24 09:15	05/06/24 18:14	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		05/03/24 09:15	05/06/24 18:14	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		05/03/24 09:15	05/06/24 18:14	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		05/03/24 09:15	05/06/24 18:14	1
Chrysene	ND		5.0	0.25	ug/L		05/03/24 09:15	05/06/24 18:14	1
Decane	ND		10	0.40	ug/L		05/03/24 09:15	05/06/24 18:14	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		05/03/24 09:15	05/06/24 18:14	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		05/03/24 09:15	05/06/24 18:14	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		05/03/24 09:15	05/06/24 18:14	1
Diethyl phthalate	ND		5.0	0.25	ug/L		05/03/24 09:15	05/06/24 18:14	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		05/03/24 09:15	05/06/24 18:14	1
Fluoranthene	ND		5.0	0.40	ug/L		05/03/24 09:15	05/06/24 18:14	1
Fluorene	ND		5.0	0.25	ug/L		05/03/24 09:15	05/06/24 18:14	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		05/03/24 09:15	05/06/24 18:14	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		05/03/24 09:15	05/06/24 18:14	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		05/03/24 09:15	05/06/24 18:14	1
Hexachloroethane	ND		5.0	0.15	ug/L		05/03/24 09:15	05/06/24 18:14	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		05/03/24 09:15	05/06/24 18:14	1
Isophorone	ND		5.0	0.19	ug/L		05/03/24 09:15	05/06/24 18:14	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		05/03/24 09:15	05/06/24 18:14	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		05/03/24 09:15	05/06/24 18:14	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		05/03/24 09:15	05/06/24 18:14	1
Naphthalene	ND		5.0	0.22	ug/L		05/03/24 09:15	05/06/24 18:14	1
Nitrobenzene	ND		5.0	0.20	ug/L		05/03/24 09:15	05/06/24 18:14	1
Pentachlorophenol	ND		10	0.79	ug/L		05/03/24 09:15	05/06/24 18:14	1
Phenanthrene	ND		5.0	0.30	ug/L		05/03/24 09:15	05/06/24 18:14	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-710524/1-A
Matrix: Water
Analysis Batch: 710782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 710524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		05/03/24 09:15	05/06/24 18:14	1
Pyrene	ND		5.0	0.35	ug/L		05/03/24 09:15	05/06/24 18:14	1
n-Octadecane	ND		10	0.30	ug/L		05/03/24 09:15	05/06/24 18:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*52 - 151*	*05/03/24 09:15*	*05/06/24 18:14*	*1*
2-Fluorobiphenyl	*86*		*44 - 120*	*05/03/24 09:15*	*05/06/24 18:14*	*1*
2-Fluorophenol (Surr)	*45*		*17 - 120*	*05/03/24 09:15*	*05/06/24 18:14*	*1*
Nitrobenzene-d5 (Surr)	*81*		*15 - 314*	*05/03/24 09:15*	*05/06/24 18:14*	*1*
p-Terphenyl-d14 (Surr)	*99*		*22 - 125*	*05/03/24 09:15*	*05/06/24 18:14*	*1*
Phenol-d5 (Surr)	*34*		*8 - 424*	*05/03/24 09:15*	*05/06/24 18:14*	*1*

Lab Sample ID: LCS 480-710524/2-A
Matrix: Water
Analysis Batch: 710782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 710524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	36.2		ug/L		72	44 - 142
1,2-Dichlorobenzene	50.0	36.3		ug/L		73	32 - 129
1,3-Dichlorobenzene	50.0	31.5		ug/L		63	1 - 172
1,4-Dichlorobenzene	50.0	32.5		ug/L		65	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	40.2		ug/L		80	36 - 166
2,4,6-Trichlorophenol	50.0	49.2		ug/L		98	37 - 144
2,4-Dichlorophenol	50.0	48.7		ug/L		97	39 - 135
2,4-Dimethylphenol	50.0	47.5		ug/L		95	32 - 120
2,4-Dinitrophenol	100	96.5		ug/L		96	1 - 191
2,4-Dinitrotoluene	50.0	53.2		ug/L		106	39 - 139
2,6-Dinitrotoluene	50.0	51.0		ug/L		102	50 - 158
2-Chloronaphthalene	50.0	44.8		ug/L		90	60 - 120
2-Chlorophenol	50.0	42.6		ug/L		85	23 - 134
2-Nitrophenol	50.0	45.0		ug/L		90	29 - 182
3,3'-Dichlorobenzidine	100	101		ug/L		101	1 - 262
4,6-Dinitro-2-methylphenol	100	104		ug/L		104	1 - 181
4-Bromophenyl phenyl ether	50.0	51.0		ug/L		102	53 - 127
4-Chloro-3-methylphenol	50.0	47.9		ug/L		96	22 - 147
4-Chlorophenyl phenyl ether	50.0	49.6		ug/L		99	25 - 158
4-Nitrophenol	100	58.9		ug/L		59	1 - 132
Acenaphthene	50.0	48.0		ug/L		96	47 - 145
Acenaphthylene	50.0	48.4		ug/L		97	33 - 145
Anthracene	50.0	53.3		ug/L		107	27 - 133
Benzidine	100	23.2	J	ug/L		23	1 - 120
Benzo[a]anthracene	50.0	52.9		ug/L		106	33 - 143
Benzo[a]pyrene	50.0	52.7		ug/L		105	17 - 163
Benzo[b]fluoranthene	50.0	52.5		ug/L		105	24 - 159
Benzo[g,h,i]perylene	50.0	55.7		ug/L		111	1 - 219
Benzo[k]fluoranthene	50.0	52.2		ug/L		104	11 - 162
Bis(2-chloroethoxy)methane	50.0	45.9		ug/L		92	33 - 184
Bis(2-chloroethyl)ether	50.0	42.1		ug/L		84	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-710524/2-A
Matrix: Water
Analysis Batch: 710782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 710524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	50.9		ug/L		102	8 - 158
Butyl benzyl phthalate	50.0	51.0		ug/L		102	1 - 152
Chrysene	50.0	50.3		ug/L		101	17 - 168
Di-n-butyl phthalate	50.0	53.2		ug/L		106	1 - 120
Di-n-octyl phthalate	50.0	50.0		ug/L		100	4 - 146
Dibenz(a,h)anthracene	50.0	57.5		ug/L		115	1 - 227
Diethyl phthalate	50.0	52.9		ug/L		106	1 - 120
Dimethyl phthalate	50.0	54.4		ug/L		109	1 - 120
Fluoranthene	50.0	54.8		ug/L		110	26 - 137
Fluorene	50.0	50.4		ug/L		101	59 - 121
Hexachlorobenzene	50.0	53.8		ug/L		108	1 - 152
Hexachlorocyclopentadiene	50.0	25.6		ug/L		51	5 - 120
Hexachloroethane	50.0	28.6		ug/L		57	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	56.8		ug/L		114	1 - 171
Isophorone	50.0	47.1		ug/L		94	21 - 196
N-Nitrosodi-n-propylamine	50.0	49.3		ug/L		99	1 - 230
N-Nitrosodiphenylamine	50.0	52.2		ug/L		104	54 - 125
Naphthalene	50.0	42.4		ug/L		85	21 - 133
Nitrobenzene	50.0	43.5		ug/L		87	35 - 180
Pentachlorophenol	100	80.8		ug/L		81	14 - 176
Phenanthrene	50.0	50.3		ug/L		101	54 - 120
Phenol	50.0	21.1		ug/L		42	5 - 120
Pyrene	50.0	51.5		ug/L		103	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol (Surr)	*48*		*17 - 120*
Nitrobenzene-d5 (Surr)	*88*		*15 - 314*
p-Terphenyl-d14 (Surr)	*100*		*22 - 125*
Phenol-d5 (Surr)	*38*		*8 - 424*

Lab Sample ID: 480-219420-6 MS
Matrix: Wastewater
Analysis Batch: 710782

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 710524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	ND		47.6	33.3		ug/L		70	44 - 142
1,2-Dichlorobenzene	ND		47.6	33.3		ug/L		70	32 - 129
1,3-Dichlorobenzene	ND		47.6	29.1		ug/L		61	1 - 172
1,4-Dichlorobenzene	ND		47.6	30.2		ug/L		63	20 - 124
2,2'-Oxybis(1-chloropropane)	ND		47.6	37.8		ug/L		79	36 - 166
2,4,6-Trichlorophenol	ND		47.6	45.4		ug/L		95	37 - 144
2,4-Dichlorophenol	ND		47.6	43.8		ug/L		92	39 - 135
2,4-Dimethylphenol	ND		47.6	41.9		ug/L		88	32 - 120
2,4-Dinitrophenol	ND		95.2	87.8		ug/L		92	1 - 191
2,4-Dinitrotoluene	ND		47.6	49.4		ug/L		104	39 - 139
2,6-Dinitrotoluene	ND		47.6	45.4		ug/L		95	50 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-219420-6 MS
Matrix: Wastewater
Analysis Batch: 710782

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 710524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	ND		47.6	40.9		ug/L		86	60 - 120
2-Chlorophenol	ND		47.6	38.4		ug/L		81	23 - 134
2-Nitrophenol	ND		47.6	40.3		ug/L		85	29 - 182
3,3'-Dichlorobenzidine	ND		95.2	67.1		ug/L		70	1 - 262
4,6-Dinitro-2-methylphenol	ND		95.2	93.8		ug/L		98	1 - 181
4-Bromophenyl phenyl ether	ND		47.6	46.8		ug/L		98	53 - 127
4-Chloro-3-methylphenol	ND		47.6	43.1		ug/L		90	22 - 147
4-Chlorophenyl phenyl ether	ND		47.6	44.7		ug/L		94	25 - 158
4-Nitrophenol	ND		95.2	49.9		ug/L		52	1 - 132
Acenaphthene	ND		47.6	43.8		ug/L		92	47 - 145
Acenaphthylene	ND		47.6	43.6		ug/L		92	33 - 145
Anthracene	ND		47.6	47.5		ug/L		100	27 - 133
Benzidine	ND	F1	95.2	ND	F1	ug/L		0	1 - 120
Benzo[a]anthracene	ND		47.6	46.7		ug/L		98	33 - 143
Benzo[a]pyrene	ND		47.6	47.1		ug/L		99	17 - 163
Benzo[b]fluoranthene	ND		47.6	48.5		ug/L		102	24 - 159
Benzo[g,h,i]perylene	ND		47.6	50.4		ug/L		106	1 - 219
Benzo[k]fluoranthene	ND		47.6	46.5		ug/L		98	11 - 162
Bis(2-chloroethoxy)methane	ND		47.6	41.5		ug/L		87	33 - 184
Bis(2-chloroethyl)ether	ND		47.6	39.6		ug/L		83	12 - 158
Bis(2-ethylhexyl) phthalate	ND		47.6	45.1		ug/L		95	8 - 158
Butyl benzyl phthalate	ND		47.6	45.6		ug/L		96	1 - 152
Chrysene	ND		47.6	45.7		ug/L		96	17 - 168
Di-n-butyl phthalate	ND		47.6	46.7		ug/L		98	1 - 120
Di-n-octyl phthalate	ND		47.6	44.6		ug/L		94	4 - 146
Dibenz(a,h)anthracene	ND		47.6	52.5		ug/L		110	1 - 227
Diethyl phthalate	ND		47.6	48.1		ug/L		101	1 - 120
Dimethyl phthalate	ND		47.6	48.7		ug/L		102	1 - 120
Fluoranthene	ND		47.6	47.6		ug/L		100	26 - 137
Fluorene	ND		47.6	46.0		ug/L		97	59 - 121
Hexachlorobenzene	ND		47.6	47.6		ug/L		100	1 - 152
Hexachlorocyclopentadiene	ND		47.6	22.0		ug/L		46	5 - 120
Hexachloroethane	ND		47.6	28.2		ug/L		59	40 - 120
Indeno[1,2,3-cd]pyrene	ND		47.6	50.9		ug/L		107	1 - 171
Isophorone	ND		47.6	42.8		ug/L		90	21 - 196
N-Nitrosodi-n-propylamine	ND		47.6	46.1		ug/L		97	1 - 230
N-Nitrosodiphenylamine	ND		47.6	46.5		ug/L		98	54 - 125
Naphthalene	ND		47.6	38.5		ug/L		81	21 - 133
Nitrobenzene	ND		47.6	44.0		ug/L		92	35 - 180
Pentachlorophenol	ND		95.2	73.2		ug/L		77	14 - 176
Phenanthrene	ND		47.6	45.5		ug/L		95	54 - 120
Phenol	ND		47.6	19.4		ug/L		41	5 - 120
Pyrene	ND		47.6	44.9		ug/L		94	52 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*101*		*52 - 151*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol (Surr)	*47*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-219420-6 MS
Matrix: Wastewater
Analysis Batch: 710782

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 710524

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*83*		*15 - 314*
p-Terphenyl-d14 (Surr)	*82*		*22 - 125*
Phenol-d5 (Surr)	*37*		*8 - 424*

Lab Sample ID: 480-219420-6 MSD
Matrix: Wastewater
Analysis Batch: 710782

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 710524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		48.1	34.2		ug/L		71	44 - 142	3	50
1,2-Dichlorobenzene	ND		48.1	33.4		ug/L		69	32 - 129	0	38
1,3-Dichlorobenzene	ND		48.1	30.3		ug/L		63	1 - 172	4	37
1,4-Dichlorobenzene	ND		48.1	31.5		ug/L		66	20 - 124	4	40
2,2'-Oxybis(1-chloropropane)	ND		48.1	36.3		ug/L		76	36 - 166	4	76
2,4,6-Trichlorophenol	ND		48.1	43.9		ug/L		91	37 - 144	3	58
2,4-Dichlorophenol	ND		48.1	42.7		ug/L		89	39 - 135	3	50
2,4-Dimethylphenol	ND		48.1	41.7		ug/L		87	32 - 120	1	58
2,4-Dinitrophenol	ND		96.2	96.8		ug/L		101	1 - 191	10	132
2,4-Dinitrotoluene	ND		48.1	47.9		ug/L		100	39 - 139	3	42
2,6-Dinitrotoluene	ND		48.1	45.5		ug/L		95	50 - 158	0	48
2-Chloronaphthalene	ND		48.1	39.9		ug/L		83	60 - 120	2	24
2-Chlorophenol	ND		48.1	36.7		ug/L		76	23 - 134	5	61
2-Nitrophenol	ND		48.1	39.6		ug/L		82	29 - 182	2	55
3,3'-Dichlorobenzidine	ND		96.2	72.7		ug/L		76	1 - 262	8	108
4,6-Dinitro-2-methylphenol	ND		96.2	94.5		ug/L		98	1 - 181	1	203
4-Bromophenyl phenyl ether	ND		48.1	47.7		ug/L		99	53 - 127	2	43
4-Chloro-3-methylphenol	ND		48.1	43.9		ug/L		91	22 - 147	2	73
4-Chlorophenyl phenyl ether	ND		48.1	45.7		ug/L		95	25 - 158	2	61
4-Nitrophenol	ND		96.2	50.8		ug/L		53	1 - 132	2	131
Acenaphthene	ND		48.1	42.1		ug/L		88	47 - 145	4	48
Acenaphthylene	ND		48.1	43.0		ug/L		90	33 - 145	1	74
Anthracene	ND		48.1	48.5		ug/L		101	27 - 133	2	66
Benzidine	ND	F1	96.2	ND	F1	ug/L		0	1 - 120	NC	50
Benzo[a]anthracene	ND		48.1	48.6		ug/L		101	33 - 143	4	53
Benzo[a]pyrene	ND		48.1	49.5		ug/L		103	17 - 163	5	72
Benzo[b]fluoranthene	ND		48.1	48.8		ug/L		102	24 - 159	1	71
Benzo[g,h,i]perylene	ND		48.1	52.4		ug/L		109	1 - 219	4	97
Benzo[k]fluoranthene	ND		48.1	47.9		ug/L		100	11 - 162	3	63
Bis(2-chloroethoxy)methane	ND		48.1	40.7		ug/L		85	33 - 184	2	54
Bis(2-chloroethyl)ether	ND		48.1	37.3		ug/L		78	12 - 158	6	108
Bis(2-ethylhexyl) phthalate	ND		48.1	47.6		ug/L		99	8 - 158	5	82
Butyl benzyl phthalate	ND		48.1	48.5		ug/L		101	1 - 152	6	60
Chrysene	ND		48.1	47.7		ug/L		99	17 - 168	4	87
Di-n-butyl phthalate	ND		48.1	49.4		ug/L		103	1 - 120	6	47
Di-n-octyl phthalate	ND		48.1	47.3		ug/L		98	4 - 146	6	69
Dibenz(a,h)anthracene	ND		48.1	54.3		ug/L		113	1 - 227	3	126
Diethyl phthalate	ND		48.1	48.4		ug/L		101	1 - 120	1	100
Dimethyl phthalate	ND		48.1	48.6		ug/L		101	1 - 120	0	183

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-219420-6 MSD
Matrix: Wastewater
Analysis Batch: 710782

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 710524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene	ND		48.1	49.8		ug/L		104	26 - 137	4	66
Fluorene	ND		48.1	45.9		ug/L		95	59 - 121	0	38
Hexachlorobenzene	ND		48.1	48.4		ug/L		101	1 - 152	2	55
Hexachlorocyclopentadiene	ND		48.1	21.5		ug/L		45	5 - 120	2	50
Hexachloroethane	ND		48.1	31.3		ug/L		65	40 - 120	10	52
Indeno[1,2,3-cd]pyrene	ND		48.1	53.3		ug/L		111	1 - 171	5	99
Isophorone	ND		48.1	42.3		ug/L		88	21 - 196	1	93
N-Nitrosodi-n-propylamine	ND		48.1	44.6		ug/L		93	1 - 230	3	87
N-Nitrosodiphenylamine	ND		48.1	46.7		ug/L		97	54 - 125	0	15
Naphthalene	ND		48.1	38.2		ug/L		79	21 - 133	1	65
Nitrobenzene	ND		48.1	42.3		ug/L		88	35 - 180	4	62
Pentachlorophenol	ND		96.2	75.7		ug/L		79	14 - 176	3	86
Phenanthrene	ND		48.1	46.2		ug/L		96	54 - 120	2	39
Phenol	ND		48.1	18.4		ug/L		38	5 - 120	5	64
Pyrene	ND		48.1	47.9		ug/L		100	52 - 120	7	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*101*		*52 - 151*
2-Fluorobiphenyl	*85*		*44 - 120*
2-Fluorophenol (Surr)	*44*		*17 - 120*
Nitrobenzene-d5 (Surr)	*80*		*15 - 314*
p-Terphenyl-d14 (Surr)	*90*		*22 - 125*
Phenol-d5 (Surr)	*34*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 460-975243/1-A
Matrix: Water
Analysis Batch: 975898

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 975243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.030	0.0045	mg/L		05/16/24 10:07	05/20/24 16:57	1

Lab Sample ID: LCS 460-975243/2-A
Matrix: Water
Analysis Batch: 975898

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 975243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.518		mg/L		104	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 460-975266/1-A
Matrix: Water
Analysis Batch: 975315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 975266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		05/16/24 13:29	05/16/24 14:31	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 460-975266/2-A
Matrix: Water
Analysis Batch: 975315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 975266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.07		ug/L		107	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-711575/47
Matrix: Water
Analysis Batch: 711575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00880	J	0.010	0.0041	mg/L			05/09/24 21:45	1

Lab Sample ID: MB 480-711575/75
Matrix: Water
Analysis Batch: 711575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00810	J	0.010	0.0041	mg/L			05/09/24 23:00	1

Lab Sample ID: HLCS 480-711575/22
Matrix: Water
Analysis Batch: 711575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.408		mg/L		102	90 - 110

Lab Sample ID: LCS 480-711575/23
Matrix: Water
Analysis Batch: 711575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.249		mg/L		100	90 - 110

Lab Sample ID: LCS 480-711575/48
Matrix: Water
Analysis Batch: 711575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.252		mg/L		101	90 - 110

Lab Sample ID: LCS 480-711575/76
Matrix: Water
Analysis Batch: 711575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.243		mg/L		97	90 - 110

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-710875/1
Matrix: Water
Analysis Batch: 710875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

GC/MS VOA

Analysis Batch: 710410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-5	TRIP BLANK	Total/NA	WQ	624.1	
480-219420-6	001 LAB COMP	Total/NA	Wastewater	624.1	
MB 480-710410/8	Method Blank	Total/NA	Water	624.1	
LCS 480-710410/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 710524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-710524/1-A	Method Blank	Total/NA	Water	625	
LCS 480-710524/2-A	Lab Control Sample	Total/NA	Water	625	
480-219420-6 MS	001 LAB COMP	Total/NA	Wastewater	625	
480-219420-6 MSD	001 LAB COMP	Total/NA	Wastewater	625	

Analysis Batch: 710782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total/NA	Wastewater	625.1	710524
MB 480-710524/1-A	Method Blank	Total/NA	Water	625.1	710524
LCS 480-710524/2-A	Lab Control Sample	Total/NA	Water	625.1	710524
480-219420-6 MS	001 LAB COMP	Total/NA	Wastewater	625.1	710524
480-219420-6 MSD	001 LAB COMP	Total/NA	Wastewater	625.1	710524

Metals

Prep Batch: 975243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total Recoverable	Wastewater	200.7	
MB 460-975243/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 460-975243/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 975266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 460-975266/1-A	Method Blank	Total/NA	Water	245.1	
LCS 460-975266/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 975315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total/NA	Wastewater	245.1	975266
MB 460-975266/1-A	Method Blank	Total/NA	Water	245.1	975266
LCS 460-975266/2-A	Lab Control Sample	Total/NA	Water	245.1	975266

Analysis Batch: 975898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total Recoverable	Wastewater	200.7 Rev 4.4	975243
MB 460-975243/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	975243
LCS 460-975243/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	975243

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

General Chemistry

Analysis Batch: 710875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-710875/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 711575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-219420-6	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-711575/47	Method Blank	Total/NA	Water	335.4	
MB 480-711575/75	Method Blank	Total/NA	Water	335.4	
HLCS 480-711575/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-711575/23	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-711575/48	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-711575/76	Lab Control Sample	Total/NA	Water	335.4	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-219420-5

Date Collected: 05/01/24 00:00

Matrix: WQ

Date Received: 05/02/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	710410	AXK	EET BUF	05/02/24 20:08

Client Sample ID: 001 LAB COMP

Lab Sample ID: 480-219420-6

Date Collected: 05/01/24 00:00

Matrix: Wastewater

Date Received: 05/02/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	710410	AXK	EET BUF	05/02/24 20:32
Total/NA	Prep	625			710524	JMP	EET BUF	05/03/24 09:15
Total/NA	Analysis	625.1		1	710782	JMM	EET BUF	05/06/24 19:56
Total Recoverable	Prep	200.7			975243	KXN	EET EDI	05/16/24 10:07
Total Recoverable	Analysis	200.7 Rev 4.4		1	975898	MDC	EET EDI	05/20/24 17:47
Total/NA	Prep	245.1			975266	RBS	EET EDI	05/16/24 13:29
Total/NA	Analysis	245.1		1	975315	RBS	EET EDI	05/16/24 14:45
Total/NA	Analysis	335.4		1	711575	GW	EET BUF	05/09/24 22:36
Total/NA	Analysis	SM 4500 H+ B		1	710875	KB	EET BUF	05/06/24 18:22

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	06-30-24
Massachusetts	State	M-NJ312	06-30-24
New Jersey	NELAP	12028	06-30-24
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	P330-20-00244	05-31-24

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET EDI
245.1	Mercury (CVAA)	EPA	EET EDI
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Recoverable Metals	EPA	EET EDI
245.1	Preparation, Mercury	EPA	EET EDI
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-219420-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-219420-5	TRIP BLANK	WQ	05/01/24 00:00	05/02/24 09:00
480-219420-6	001 LAB COMP	Wastewater	05/01/24 00:00	05/02/24 09:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193791-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Needed			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3
B - NsOH
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
D01-1	5/1/24	0635	G	Water			X	X	X	X	X	3	LabTo
001-2		0838		Water			X	X	X	X	X	3	Composite
001-3		1035					X	X	X	X	X	3	Samples
001-4		1235					X	X	X	X	X	3	
TripBlank		—						X				2	
													Short Hold Time

480-219420 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if sa.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	5/1/24 1428	Arcadis	[signature]	5-2-24 900	TAB
Relinquished by: William Thayer	5/1/24 1440	Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9 ICE

Ver: 06/08/2021

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-87313 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP New York		Job #: 480-219420-1
Address: 777 New Durham Road	Due Date Requested: 5/15/2024	Analysis Requested		Preservation Codes:
City: Edison	TAT Requested (days):			
State, Zip: NJ 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Monthly Testing	Project #: 48011056			
Site: Iroquois Gas/Westwood Pharm.	SSOW#:			Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.7_P TR Zinc	245.1/245.1_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
001 LAB COMP (480-219420-6)	5/1/24	Eastern		Water			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. All requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Matthew Krolb	05/14/24 16:00	TA	Brad	5/15/24 10:15	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.
		IR-9 C-2 C 1.4 C IR-5

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-219420-1

Login Number: 219420
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-219420-1

Login Number: 219420
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 05/15/24 11:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2/1.6, 1.4/1.8°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 6/20/2024 11:23:40 AM

JOB DESCRIPTION

Monthly Testing
Monthly Testing

JOB NUMBER

480-220467-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

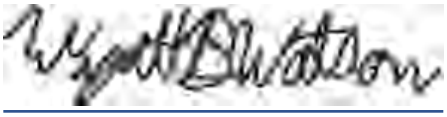
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
6/20/2024 11:23:40 AM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 20
Lab Chronicle 22
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 28

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-220467-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/5/2024 10:38 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 06/05/2024 as requested by the client: 001 LAB COMP (480-220467-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-220467-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-220467-5

No Detections.

Client Sample ID: 001 LAB COMP — Lab Sample ID: 480-220467-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.080		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.8	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Client Sample ID: TRIP BLANK

Date Collected: 06/04/24 00:00
Date Received: 06/05/24 10:38

Lab Sample ID: 480-220467-5

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			06/05/24 15:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/05/24 15:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/05/24 15:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/05/24 15:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/05/24 15:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/05/24 15:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/05/24 15:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			06/05/24 15:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/05/24 15:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/05/24 15:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/05/24 15:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/05/24 15:45	1
Acrolein	ND		100	17	ug/L			06/05/24 15:45	1
Acrylonitrile	ND		50	1.9	ug/L			06/05/24 15:45	1
Benzene	ND		5.0	0.60	ug/L			06/05/24 15:45	1
Bromoform	ND		5.0	0.47	ug/L			06/05/24 15:45	1
Bromomethane	ND		5.0	1.2	ug/L			06/05/24 15:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/05/24 15:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/05/24 15:45	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/05/24 15:45	1
Chloroethane	ND		5.0	0.87	ug/L			06/05/24 15:45	1
Chloroform	ND		5.0	0.54	ug/L			06/05/24 15:45	1
Chloromethane	ND		5.0	0.64	ug/L			06/05/24 15:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/05/24 15:45	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/05/24 15:45	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			06/05/24 15:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/05/24 15:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/05/24 15:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/05/24 15:45	1
Toluene	ND		5.0	0.45	ug/L			06/05/24 15:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/05/24 15:45	1
Trichloroethene	ND		5.0	0.60	ug/L			06/05/24 15:45	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/05/24 15:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/05/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*06/05/24 15:45*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*06/05/24 15:45*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*06/05/24 15:45*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/05/24 15:45*	*1*

Client Sample ID: 001 LAB COMP

Date Collected: 06/04/24 00:00
Date Received: 06/05/24 10:38

Lab Sample ID: 480-220467-6

Matrix: Wastewater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			06/05/24 16:10	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/05/24 16:10	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/05/24 16:10	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/05/24 16:10	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/05/24 16:10	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/05/24 16:10	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/05/24 16:10	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			06/05/24 16:10	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/05/24 16:10	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/05/24 16:10	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/05/24 16:10	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/05/24 16:10	1
Acrolein	ND		100	17	ug/L			06/05/24 16:10	1
Acrylonitrile	ND		50	1.9	ug/L			06/05/24 16:10	1
Benzene	ND		5.0	0.60	ug/L			06/05/24 16:10	1
Bromoform	ND		5.0	0.47	ug/L			06/05/24 16:10	1
Bromomethane	ND		5.0	1.2	ug/L			06/05/24 16:10	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/05/24 16:10	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/05/24 16:10	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/05/24 16:10	1
Chloroethane	ND		5.0	0.87	ug/L			06/05/24 16:10	1
Chloroform	ND		5.0	0.54	ug/L			06/05/24 16:10	1
Chloromethane	ND		5.0	0.64	ug/L			06/05/24 16:10	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/05/24 16:10	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/05/24 16:10	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			06/05/24 16:10	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/05/24 16:10	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/05/24 16:10	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/05/24 16:10	1
Toluene	ND		5.0	0.45	ug/L			06/05/24 16:10	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/05/24 16:10	1
Trichloroethene	ND		5.0	0.60	ug/L			06/05/24 16:10	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/05/24 16:10	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/05/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*68 - 130*		*06/05/24 16:10*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*06/05/24 16:10*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*06/05/24 16:10*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/05/24 16:10*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		06/07/24 09:37	06/10/24 13:53	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		06/07/24 09:37	06/10/24 13:53	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		06/07/24 09:37	06/10/24 13:53	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		06/07/24 09:37	06/10/24 13:53	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		06/07/24 09:37	06/10/24 13:53	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		06/07/24 09:37	06/10/24 13:53	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		06/07/24 09:37	06/10/24 13:53	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Client Sample ID: 001 LAB COMP
Date Collected: 06/04/24 00:00
Date Received: 06/05/24 10:38

Lab Sample ID: 480-220467-6
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		06/07/24 09:37	06/10/24 13:53	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		06/07/24 09:37	06/10/24 13:53	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		06/07/24 09:37	06/10/24 13:53	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		06/07/24 09:37	06/10/24 13:53	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		06/07/24 09:37	06/10/24 13:53	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		06/07/24 09:37	06/10/24 13:53	1
2-Chlorophenol	ND		4.8	0.16	ug/L		06/07/24 09:37	06/10/24 13:53	1
2-Nitrophenol	ND		4.8	0.17	ug/L		06/07/24 09:37	06/10/24 13:53	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		06/07/24 09:37	06/10/24 13:53	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		06/07/24 09:37	06/10/24 13:53	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		06/07/24 09:37	06/10/24 13:53	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		06/07/24 09:37	06/10/24 13:53	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		06/07/24 09:37	06/10/24 13:53	1
4-Nitrophenol	ND		14	0.46	ug/L		06/07/24 09:37	06/10/24 13:53	1
Acenaphthene	ND		4.8	0.19	ug/L		06/07/24 09:37	06/10/24 13:53	1
Acenaphthylene	ND		4.8	0.21	ug/L		06/07/24 09:37	06/10/24 13:53	1
Anthracene	ND		4.8	0.33	ug/L		06/07/24 09:37	06/10/24 13:53	1
Benzidine	ND		76	13	ug/L		06/07/24 09:37	06/10/24 13:53	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		06/07/24 09:37	06/10/24 13:53	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		06/07/24 09:37	06/10/24 13:53	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		06/07/24 09:37	06/10/24 13:53	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		06/07/24 09:37	06/10/24 13:53	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		06/07/24 09:37	06/10/24 13:53	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		06/07/24 09:37	06/10/24 13:53	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		06/07/24 09:37	06/10/24 13:53	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		06/07/24 09:37	06/10/24 13:53	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		06/07/24 09:37	06/10/24 13:53	1
Chrysene	ND		4.8	0.24	ug/L		06/07/24 09:37	06/10/24 13:53	1
Decane	ND		9.5	0.38	ug/L		06/07/24 09:37	06/10/24 13:53	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		06/07/24 09:37	06/10/24 13:53	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		06/07/24 09:37	06/10/24 13:53	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		06/07/24 09:37	06/10/24 13:53	1
Diethyl phthalate	ND		4.8	0.24	ug/L		06/07/24 09:37	06/10/24 13:53	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		06/07/24 09:37	06/10/24 13:53	1
Fluoranthene	ND		4.8	0.38	ug/L		06/07/24 09:37	06/10/24 13:53	1
Fluorene	ND		4.8	0.24	ug/L		06/07/24 09:37	06/10/24 13:53	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		06/07/24 09:37	06/10/24 13:53	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		06/07/24 09:37	06/10/24 13:53	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		06/07/24 09:37	06/10/24 13:53	1
Hexachloroethane	ND		4.8	0.14	ug/L		06/07/24 09:37	06/10/24 13:53	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		06/07/24 09:37	06/10/24 13:53	1
Isophorone	ND		4.8	0.18	ug/L		06/07/24 09:37	06/10/24 13:53	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		06/07/24 09:37	06/10/24 13:53	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		06/07/24 09:37	06/10/24 13:53	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		06/07/24 09:37	06/10/24 13:53	1
Naphthalene	ND		4.8	0.20	ug/L		06/07/24 09:37	06/10/24 13:53	1
Nitrobenzene	ND		4.8	0.19	ug/L		06/07/24 09:37	06/10/24 13:53	1
Pentachlorophenol	ND		9.5	0.75	ug/L		06/07/24 09:37	06/10/24 13:53	1
Phenanthrene	ND		4.8	0.29	ug/L		06/07/24 09:37	06/10/24 13:53	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Client Sample ID: 001 LAB COMP

Date Collected: 06/04/24 00:00
Date Received: 06/05/24 10:38

Lab Sample ID: 480-220467-6

Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		06/07/24 09:37	06/10/24 13:53	1
Pyrene	ND		4.8	0.33	ug/L		06/07/24 09:37	06/10/24 13:53	1
n-Octadecane	ND		9.5	0.29	ug/L		06/07/24 09:37	06/10/24 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*52 - 151*	*06/07/24 09:37*	*06/10/24 13:53*	*1*
2-Fluorobiphenyl	*85*		*44 - 120*	*06/07/24 09:37*	*06/10/24 13:53*	*1*
2-Fluorophenol (Surr)	*49*		*17 - 120*	*06/07/24 09:37*	*06/10/24 13:53*	*1*
Nitrobenzene-d5 (Surr)	*78*		*15 - 314*	*06/07/24 09:37*	*06/10/24 13:53*	*1*
p-Terphenyl-d14 (Surr)	*91*		*22 - 125*	*06/07/24 09:37*	*06/10/24 13:53*	*1*
Phenol-d5 (Surr)	*33*		*8 - 424*	*06/07/24 09:37*	*06/10/24 13:53*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.030	0.0045	mg/L		06/18/24 08:36	06/18/24 13:19	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		06/12/24 12:25	06/12/24 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.080**		0.010	0.0041	mg/L			06/14/24 21:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.6**	**HF**	0.1	0.1	SU			06/12/24 15:40	1
Temperature (SM 4500 H+ B)	**19.8**	**HF**	0.001	0.001	Degrees C			06/12/24 15:40	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	TOL	DBFM				
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)				
480-220467-6	001 LAB COMP	106	99	100	101				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	TOL	DBFM				
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)				
LCS 480-714505/6	Lab Control Sample	100	98	101	100				
MB 480-714505/8	Method Blank	102	100	102	104				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	TOL	DBFM				
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)				
480-220467-5	TRIP BLANK	103	98	100	101				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)		
480-220467-6	001 LAB COMP	93	85	49	78	91	33		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (52-151)	FBP (44-120)	2FP (17-120)	NBZ (15-314)	TPHd14 (22-125)	PHL (8-424)		
LCS 480-714821/2-A	Lab Control Sample	95	87	51	78	93	36		
MB 480-714821/1-A	Method Blank	88	81	47	72	89	32		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-714505/8
Matrix: Water
Analysis Batch: 714505

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			06/05/24 13:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			06/05/24 13:45	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			06/05/24 13:45	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			06/05/24 13:45	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			06/05/24 13:45	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			06/05/24 13:45	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			06/05/24 13:45	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			06/05/24 13:45	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			06/05/24 13:45	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			06/05/24 13:45	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			06/05/24 13:45	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			06/05/24 13:45	1
Acrolein	ND		100	17	ug/L			06/05/24 13:45	1
Acrylonitrile	ND		50	1.9	ug/L			06/05/24 13:45	1
Benzene	ND		5.0	0.60	ug/L			06/05/24 13:45	1
Bromoform	ND		5.0	0.47	ug/L			06/05/24 13:45	1
Bromomethane	ND		5.0	1.2	ug/L			06/05/24 13:45	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			06/05/24 13:45	1
Chlorobenzene	ND		5.0	0.48	ug/L			06/05/24 13:45	1
Dibromochloromethane	ND		5.0	0.41	ug/L			06/05/24 13:45	1
Chloroethane	ND		5.0	0.87	ug/L			06/05/24 13:45	1
Chloroform	ND		5.0	0.54	ug/L			06/05/24 13:45	1
Chloromethane	ND		5.0	0.64	ug/L			06/05/24 13:45	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			06/05/24 13:45	1
Bromodichloromethane	ND		5.0	0.54	ug/L			06/05/24 13:45	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			06/05/24 13:45	1
Ethylbenzene	ND		5.0	0.46	ug/L			06/05/24 13:45	1
Methylene Chloride	ND		5.0	0.81	ug/L			06/05/24 13:45	1
Tetrachloroethene	ND		5.0	0.34	ug/L			06/05/24 13:45	1
Toluene	ND		5.0	0.45	ug/L			06/05/24 13:45	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			06/05/24 13:45	1
Trichloroethene	ND		5.0	0.60	ug/L			06/05/24 13:45	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			06/05/24 13:45	1
Vinyl chloride	ND		5.0	0.75	ug/L			06/05/24 13:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*06/05/24 13:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*06/05/24 13:45*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*06/05/24 13:45*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*06/05/24 13:45*	*1*

Lab Sample ID: LCS 480-714505/6
Matrix: Water
Analysis Batch: 714505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	20.8		ug/L		104	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	21.6		ug/L		108	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-714505/6
Matrix: Water
Analysis Batch: 714505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	52 - 150
1,1-Dichloroethane	20.0	20.3		ug/L		101	59 - 155
1,1-Dichloroethene	20.0	20.1		ug/L		101	1 - 234
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	18 - 190
1,2-Dichloroethane	20.0	20.6		ug/L		103	49 - 155
1,2-Dichloropropane	20.0	20.5		ug/L		103	1 - 210
1,3-Dichlorobenzene	20.0	21.3		ug/L		106	59 - 156
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	18 - 190
2-Chloroethyl vinyl ether	20.0	21.0	J	ug/L		105	1 - 305
Benzene	20.0	20.5		ug/L		102	37 - 151
Bromoform	20.0	18.7		ug/L		93	45 - 169
Bromomethane	20.0	19.6		ug/L		98	1 - 242
Carbon tetrachloride	20.0	19.2		ug/L		96	70 - 140
Chlorobenzene	20.0	20.7		ug/L		104	37 - 160
Dibromochloromethane	20.0	20.0		ug/L		100	53 - 149
Chloroethane	20.0	18.3		ug/L		91	14 - 230
Chloroform	20.0	20.6		ug/L		103	51 - 138
Chloromethane	20.0	17.2		ug/L		86	1 - 273
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	1 - 227
Bromodichloromethane	20.0	21.0		ug/L		105	35 - 155
Ethylbenzene	20.0	20.6		ug/L		103	37 - 162
Methylene Chloride	20.0	21.1		ug/L		105	1 - 221
Tetrachloroethene	20.0	21.2		ug/L		106	64 - 148
Toluene	20.0	20.9		ug/L		105	47 - 150
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	17 - 183
Trichloroethene	20.0	20.4		ug/L		102	71 - 157
Trichlorofluoromethane	20.0	22.8		ug/L		114	17 - 181
Vinyl chloride	20.0	14.9		ug/L		75	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-714821/1-A
Matrix: Water
Analysis Batch: 714987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		06/07/24 09:37	06/10/24 11:32	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		06/07/24 09:37	06/10/24 11:32	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		06/07/24 09:37	06/10/24 11:32	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		06/07/24 09:37	06/10/24 11:32	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		06/07/24 09:37	06/10/24 11:32	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		06/07/24 09:37	06/10/24 11:32	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		06/07/24 09:37	06/10/24 11:32	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-714821/1-A
Matrix: Water
Analysis Batch: 714987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		06/07/24 09:37	06/10/24 11:32	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		06/07/24 09:37	06/10/24 11:32	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		06/07/24 09:37	06/10/24 11:32	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		06/07/24 09:37	06/10/24 11:32	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		06/07/24 09:37	06/10/24 11:32	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		06/07/24 09:37	06/10/24 11:32	1
2-Chlorophenol	ND		5.0	0.17	ug/L		06/07/24 09:37	06/10/24 11:32	1
2-Nitrophenol	ND		5.0	0.18	ug/L		06/07/24 09:37	06/10/24 11:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		06/07/24 09:37	06/10/24 11:32	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		06/07/24 09:37	06/10/24 11:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		06/07/24 09:37	06/10/24 11:32	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		06/07/24 09:37	06/10/24 11:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		06/07/24 09:37	06/10/24 11:32	1
4-Nitrophenol	ND		15	0.49	ug/L		06/07/24 09:37	06/10/24 11:32	1
Acenaphthene	ND		5.0	0.20	ug/L		06/07/24 09:37	06/10/24 11:32	1
Acenaphthylene	ND		5.0	0.22	ug/L		06/07/24 09:37	06/10/24 11:32	1
Anthracene	ND		5.0	0.35	ug/L		06/07/24 09:37	06/10/24 11:32	1
Benzidine	ND		80	14	ug/L		06/07/24 09:37	06/10/24 11:32	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		06/07/24 09:37	06/10/24 11:32	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		06/07/24 09:37	06/10/24 11:32	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		06/07/24 09:37	06/10/24 11:32	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		06/07/24 09:37	06/10/24 11:32	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		06/07/24 09:37	06/10/24 11:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		06/07/24 09:37	06/10/24 11:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		06/07/24 09:37	06/10/24 11:32	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		06/07/24 09:37	06/10/24 11:32	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		06/07/24 09:37	06/10/24 11:32	1
Chrysene	ND		5.0	0.25	ug/L		06/07/24 09:37	06/10/24 11:32	1
Decane	ND		10	0.40	ug/L		06/07/24 09:37	06/10/24 11:32	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		06/07/24 09:37	06/10/24 11:32	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		06/07/24 09:37	06/10/24 11:32	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		06/07/24 09:37	06/10/24 11:32	1
Diethyl phthalate	ND		5.0	0.25	ug/L		06/07/24 09:37	06/10/24 11:32	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		06/07/24 09:37	06/10/24 11:32	1
Fluoranthene	ND		5.0	0.40	ug/L		06/07/24 09:37	06/10/24 11:32	1
Fluorene	ND		5.0	0.25	ug/L		06/07/24 09:37	06/10/24 11:32	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		06/07/24 09:37	06/10/24 11:32	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		06/07/24 09:37	06/10/24 11:32	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		06/07/24 09:37	06/10/24 11:32	1
Hexachloroethane	ND		5.0	0.15	ug/L		06/07/24 09:37	06/10/24 11:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		06/07/24 09:37	06/10/24 11:32	1
Isophorone	ND		5.0	0.19	ug/L		06/07/24 09:37	06/10/24 11:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		06/07/24 09:37	06/10/24 11:32	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		06/07/24 09:37	06/10/24 11:32	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		06/07/24 09:37	06/10/24 11:32	1
Naphthalene	ND		5.0	0.22	ug/L		06/07/24 09:37	06/10/24 11:32	1
Nitrobenzene	ND		5.0	0.20	ug/L		06/07/24 09:37	06/10/24 11:32	1
Pentachlorophenol	ND		10	0.79	ug/L		06/07/24 09:37	06/10/24 11:32	1
Phenanthrene	ND		5.0	0.30	ug/L		06/07/24 09:37	06/10/24 11:32	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-714821/1-A
Matrix: Water
Analysis Batch: 714987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		06/07/24 09:37	06/10/24 11:32	1
Pyrene	ND		5.0	0.35	ug/L		06/07/24 09:37	06/10/24 11:32	1
n-Octadecane	ND		10	0.30	ug/L		06/07/24 09:37	06/10/24 11:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*52 - 151*	*06/07/24 09:37*	*06/10/24 11:32*	*1*
2-Fluorobiphenyl	*81*		*44 - 120*	*06/07/24 09:37*	*06/10/24 11:32*	*1*
2-Fluorophenol (Surr)	*47*		*17 - 120*	*06/07/24 09:37*	*06/10/24 11:32*	*1*
Nitrobenzene-d5 (Surr)	*72*		*15 - 314*	*06/07/24 09:37*	*06/10/24 11:32*	*1*
p-Terphenyl-d14 (Surr)	*89*		*22 - 125*	*06/07/24 09:37*	*06/10/24 11:32*	*1*
Phenol-d5 (Surr)	*32*		*8 - 424*	*06/07/24 09:37*	*06/10/24 11:32*	*1*

Lab Sample ID: LCS 480-714821/2-A
Matrix: Water
Analysis Batch: 714987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	38.1		ug/L		76	44 - 142
1,2-Dichlorobenzene	50.0	33.0		ug/L		66	32 - 129
1,3-Dichlorobenzene	50.0	31.6		ug/L		63	1 - 172
1,4-Dichlorobenzene	50.0	32.1		ug/L		64	20 - 124
2,2'-Oxybis(1-chloropropane)	50.0	37.4		ug/L		75	36 - 166
2,4,6-Trichlorophenol	50.0	44.3		ug/L		89	37 - 144
2,4-Dichlorophenol	50.0	42.5		ug/L		85	39 - 135
2,4-Dimethylphenol	50.0	33.6		ug/L		67	32 - 120
2,4-Dinitrophenol	100	106		ug/L		106	1 - 191
2,4-Dinitrotoluene	50.0	46.2		ug/L		92	39 - 139
2,6-Dinitrotoluene	50.0	47.0		ug/L		94	50 - 158
2-Chloronaphthalene	50.0	41.1		ug/L		82	60 - 120
2-Chlorophenol	50.0	38.7		ug/L		77	23 - 134
2-Nitrophenol	50.0	42.8		ug/L		86	29 - 182
3,3'-Dichlorobenzidine	100	108		ug/L		108	1 - 262
4,6-Dinitro-2-methylphenol	100	102		ug/L		102	1 - 181
4-Bromophenyl phenyl ether	50.0	45.5		ug/L		91	53 - 127
4-Chloro-3-methylphenol	50.0	43.7		ug/L		87	22 - 147
4-Chlorophenyl phenyl ether	50.0	44.4		ug/L		89	25 - 158
4-Nitrophenol	100	47.3		ug/L		47	1 - 132
Acenaphthene	50.0	40.5		ug/L		81	47 - 145
Acenaphthylene	50.0	43.1		ug/L		86	33 - 145
Anthracene	50.0	42.7		ug/L		85	27 - 133
Benzidine	100	66.3	J	ug/L		66	1 - 120
Benzo[a]anthracene	50.0	46.0		ug/L		92	33 - 143
Benzo[a]pyrene	50.0	48.1		ug/L		96	17 - 163
Benzo[b]fluoranthene	50.0	46.0		ug/L		92	24 - 159
Benzo[g,h,i]perylene	50.0	49.6		ug/L		99	1 - 219
Benzo[k]fluoranthene	50.0	49.4		ug/L		99	11 - 162
Bis(2-chloroethoxy)methane	50.0	41.8		ug/L		84	33 - 184
Bis(2-chloroethyl)ether	50.0	39.5		ug/L		79	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-714821/2-A
Matrix: Water
Analysis Batch: 714987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	50.0	49.1		ug/L		98	8 - 158
Butyl benzyl phthalate	50.0	48.9		ug/L		98	1 - 152
Chrysene	50.0	46.4		ug/L		93	17 - 168
Di-n-butyl phthalate	50.0	46.5		ug/L		93	1 - 120
Di-n-octyl phthalate	50.0	50.3		ug/L		101	4 - 146
Dibenz(a,h)anthracene	50.0	49.9		ug/L		100	1 - 227
Diethyl phthalate	50.0	47.6		ug/L		95	1 - 120
Dimethyl phthalate	50.0	46.7		ug/L		93	1 - 120
Fluoranthene	50.0	45.0		ug/L		90	26 - 137
Fluorene	50.0	43.7		ug/L		87	59 - 121
Hexachlorobenzene	50.0	46.7		ug/L		93	1 - 152
Hexachlorocyclopentadiene	50.0	23.2		ug/L		46	5 - 120
Hexachloroethane	50.0	30.8		ug/L		62	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	49.9		ug/L		100	1 - 171
Isophorone	50.0	43.4		ug/L		87	21 - 196
N-Nitrosodi-n-propylamine	50.0	42.5		ug/L		85	1 - 230
N-Nitrosodiphenylamine	50.0	45.3		ug/L		91	54 - 125
Naphthalene	50.0	38.4		ug/L		77	21 - 133
Nitrobenzene	50.0	40.1		ug/L		80	35 - 180
Pentachlorophenol	100	93.0		ug/L		93	14 - 176
Phenanthrene	50.0	43.0		ug/L		86	54 - 120
Phenol	50.0	18.9		ug/L		38	5 - 120
Pyrene	50.0	46.7		ug/L		93	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*52 - 151*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*51*		*17 - 120*
Nitrobenzene-d5 (Surr)	*78*		*15 - 314*
p-Terphenyl-d14 (Surr)	*93*		*22 - 125*
Phenol-d5 (Surr)	*36*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 460-980764/1-A
Matrix: Water
Analysis Batch: 980813

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 980764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.030	0.0045	mg/L		06/18/24 08:36	06/18/24 12:56	1

Lab Sample ID: LCS 460-980764/2-A
Matrix: Water
Analysis Batch: 980813

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 980764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.513		mg/L		103	85 - 115

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-220467-6 MS
Matrix: Wastewater
Analysis Batch: 980813

Client Sample ID: 001 LAB COMP
Prep Type: Total Recoverable
Prep Batch: 980764

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	ND		0.500	0.494		mg/L		99	70 - 130

Lab Sample ID: 480-220467-6 DU
Matrix: Wastewater
Analysis Batch: 980813

Client Sample ID: 001 LAB COMP
Prep Type: Total Recoverable
Prep Batch: 980764

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Zinc	ND		ND		mg/L		NC	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 460-979741/1-A
Matrix: Water
Analysis Batch: 979767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 979741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.091	ug/L		06/12/24 12:25	06/12/24 14:12	1

Lab Sample ID: LCS 460-979741/2-A
Matrix: Water
Analysis Batch: 979767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 979741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.02		ug/L		102	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-715837/103
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			06/15/24 01:20	1

Lab Sample ID: MB 480-715837/47
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			06/14/24 22:09	1

Lab Sample ID: MB 480-715837/75
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			06/14/24 23:42	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: HLCS 480-715837/22
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.403		mg/L		101	90 - 110

Lab Sample ID: LCS 480-715837/104
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.250		mg/L		100	90 - 110

Lab Sample ID: LCS 480-715837/23
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.244		mg/L		98	90 - 110

Lab Sample ID: LCS 480-715837/48
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.248		mg/L		99	90 - 110

Lab Sample ID: LCS 480-715837/76
Matrix: Water
Analysis Batch: 715837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.245		mg/L		98	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-715402/23
Matrix: Water
Analysis Batch: 715402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

GC/MS VOA

Analysis Batch: 714505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-5	TRIP BLANK	Total/NA	WQ	624.1	
480-220467-6	001 LAB COMP	Total/NA	Wastewater	624.1	
MB 480-714505/8	Method Blank	Total/NA	Water	624.1	
LCS 480-714505/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 714821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-714821/1-A	Method Blank	Total/NA	Water	625	
LCS 480-714821/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 714987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total/NA	Wastewater	625.1	714821
MB 480-714821/1-A	Method Blank	Total/NA	Water	625.1	714821
LCS 480-714821/2-A	Lab Control Sample	Total/NA	Water	625.1	714821

Metals

Prep Batch: 979741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 460-979741/1-A	Method Blank	Total/NA	Water	245.1	
LCS 460-979741/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 979767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total/NA	Wastewater	245.1	979741
MB 460-979741/1-A	Method Blank	Total/NA	Water	245.1	979741
LCS 460-979741/2-A	Lab Control Sample	Total/NA	Water	245.1	979741

Prep Batch: 980764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total Recoverable	Wastewater	200.7	
MB 460-980764/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 460-980764/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-220467-6 MS	001 LAB COMP	Total Recoverable	Wastewater	200.7	
480-220467-6 DU	001 LAB COMP	Total Recoverable	Wastewater	200.7	

Analysis Batch: 980813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total Recoverable	Wastewater	200.7 Rev 4.4	980764
MB 460-980764/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	980764
LCS 460-980764/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	980764
480-220467-6 MS	001 LAB COMP	Total Recoverable	Wastewater	200.7 Rev 4.4	980764
480-220467-6 DU	001 LAB COMP	Total Recoverable	Wastewater	200.7 Rev 4.4	980764

General Chemistry

Analysis Batch: 715402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-715402/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 715837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220467-6	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-715837/103	Method Blank	Total/NA	Water	335.4	
MB 480-715837/47	Method Blank	Total/NA	Water	335.4	
MB 480-715837/75	Method Blank	Total/NA	Water	335.4	
HLCS 480-715837/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-715837/104	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-715837/23	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-715837/48	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-715837/76	Lab Control Sample	Total/NA	Water	335.4	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-220467-5

Date Collected: 06/04/24 00:00

Matrix: WQ

Date Received: 06/05/24 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	714505	AXK	EET BUF	06/05/24 15:45

Client Sample ID: 001 LAB COMP

Lab Sample ID: 480-220467-6

Date Collected: 06/04/24 00:00

Matrix: Wastewater

Date Received: 06/05/24 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	714505	AXK	EET BUF	06/05/24 16:10
Total/NA	Prep	625			714821	JMP	EET BUF	06/07/24 09:37
Total/NA	Analysis	625.1		1	714987	JMM	EET BUF	06/10/24 13:53
Total Recoverable	Prep	200.7			980764	KXN	EET EDI	06/18/24 08:36
Total Recoverable	Analysis	200.7 Rev 4.4		1	980813	CDC	EET EDI	06/18/24 13:19
Total/NA	Prep	245.1			979741	RBS	EET EDI	06/12/24 12:25
Total/NA	Analysis	245.1		1	979767	RBS	EET EDI	06/12/24 14:24
Total/NA	Analysis	335.4		1	715837	GW	EET BUF	06/14/24 21:33
Total/NA	Analysis	SM 4500 H+ B		1	715402	KB	EET BUF	06/12/24 15:40

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Laboratory: Eurofins Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-25

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET EDI
245.1	Mercury (CVAA)	EPA	EET EDI
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Recoverable Metals	EPA	EET EDI
245.1	Preparation, Mercury	EPA	EET EDI
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-220467-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-220467-5	TRIP BLANK	WQ	06/04/24 00:00	06/05/24 10:38
480-220467-6	001 LAB COMP	Wastewater	06/04/24 00:00	06/05/24 10:38

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information
Client Contact: Jason Gutkowski
Company: Arcadis U.S., Inc.
Address: One Lincoln Center 110 West Fayette St, Suite 300
City: Syracuse
State, Zip: NY, 13202
Phone:
Email: jason.gutkowski@arcadis.com
Project Name: Iroquois Gas/Westwood Pharm. Monthly
Site: New York

Sampler: Jason Gutkowski
Phone: 315 4363605
PWSID:
Due Date Requested:
TAT Requested (days): Standard Turn
Compliance Project: Δ Yes Δ No
PO #: Needed 30185775
WO #: 30003542-00001
Project #: 48011056
SSOW#:

Lab PM: Schove, John R
E-Mail: John.Schove@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-193792-34075.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
N - None
D - HNO3
B - NaOH
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	6/4/24	0620	G	Water			X	X	X	X	X	3	Lab To
001-2		0820		Water			X	X	X	X	X	3	Composite
001-3		1020					X	X	X	X	X	3	Samples
001-4		1220					X	X	X	X	X	3	
Trip Blank		—						X				2	
													Short Hold Time

480-220467 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sam
☐ Return To Client ☐ Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 6/4/24 1234	Company Arcadis	Received by: William Hughes	Date/Time: 6/4/24 1540	Company Arcadis	
Relinquished by:	Date/Time: 6/4/24 1546	Company Arcadis	Received by:	Date/Time: 6-5-24 900	Company TAB	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3/ICE

Ver: 04/02/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-87871 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: John.Schove@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): NELAP New York		Job #: 480-220467 1
Address: 777 New Durham Road,	Due Date Requested: 6/18/2024			Preservation Codes:
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Monthly Testing	Project #: 48011056			
Site: Iroquois Gas/Westwood Pharm.	SSOW#:			Other

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7/200.7_P_TR Zinc	245.1/245.1_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
001 LAB COMP (480-220467-6)	6/4/24	Eastern		Water			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/4/24 1700	TAB	[signature]	6/6/24 9:55	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
		IR-9085C 1.2C

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-220467-1

Login Number: 220467
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-220467-1

Login Number: 220467
List Number: 2
Creator: Armbruster, Chris

List Source: Eurofins Edison
List Creation: 06/06/24 11:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8/1.2°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ARCADIS

Ms. Elizabeth Scheeler
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse, NY 13202
United States
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: September 30, 2024
Our Ref: 30185775
Subject: **Discharge Monitoring Report – Third Quarter 2024**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Scheeler,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this third quarter 2024 Discharge Monitoring Report (DMR) for the above-referenced site, which covers July 1 to September 30, 2024. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 68,989 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 7/2/2024 to 9/23/2024). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the third quarter of 2024.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as "C001 Sample Location" on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the July, August, and September monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In July, August, and September 2024, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

Ms. Elizabeth Scheeler
Buffalo Sewer Authority Treatment Plant
September 30, 2024

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:

Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

CC. Richard Mator, BMS
John Alonzo, de maximis, inc.
Michael J. Hecker, Hodgson Russ LLP
Katie Hoelscher, NFG

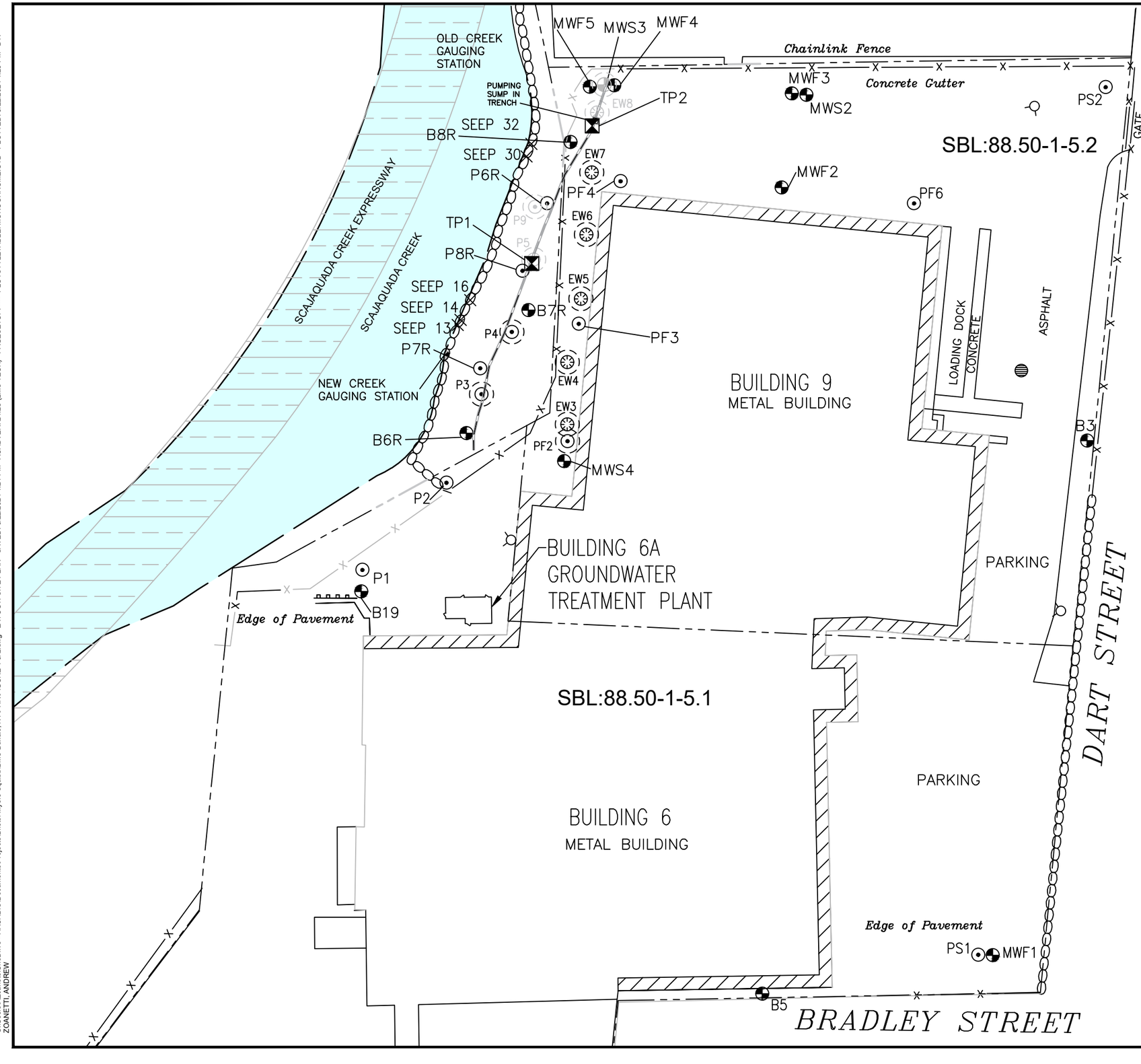
Attachments:

- A Site Plan and Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages

Attachment A

Site Plan and Process Flow Diagram

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PMTM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\FIGURE 1 & 2.dwg LAYOUT: SITE PLAN SAVED: 5/22/2024 1:21 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: MONOCHROME.CTB PLOTTED: 5/22/2024 1:25 PM BY:
ZOANETTI, ANDREW



LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

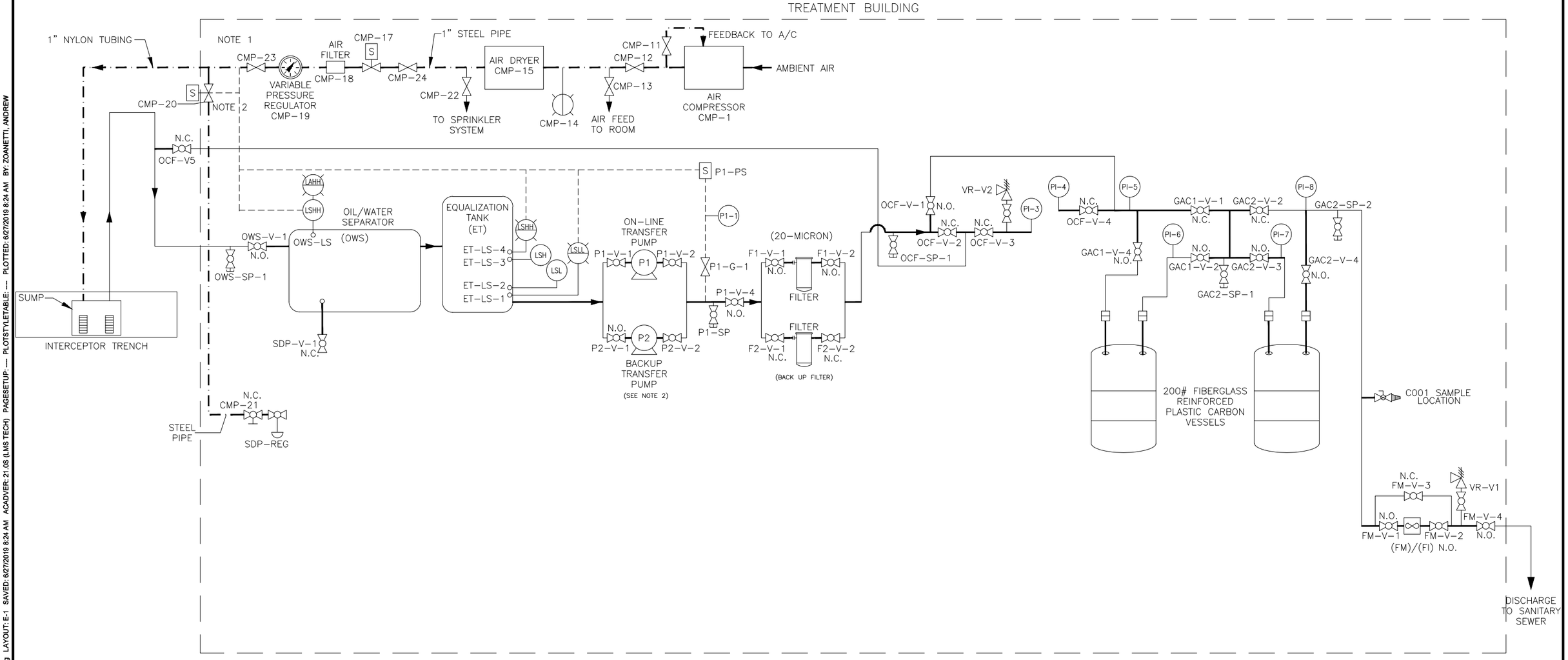
0 100' 200'

GRAPHIC SCALE

BRISTOL-MYERS SQUIBB COMPANY
IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE
CITY OF BUFFALO, ERIE COUNTY, NEW YORK

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Prsv: One 1L-amber unpreserved glass bottle and two 40ml. clear vials every two hours.

Sample Date	7/2/24	→	→	→	JTG
Sample Time	~~7/2/20~~ 0547	0747	0947	1147	JTG
Sample Observations	Clear	Clear	clear	clear	JTG
pH Measurement	7.61	7.68	7.48	7.78	JTG
Weather	55°F Clear	62°F Sunny	69°F Partly Cloudy	74°F Sunny	JTG
Comments	None	None	None	None	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency in 40 CFR Part 136 and as amended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Gutkowski
Sample Technician

7/2/24
Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm Permit #: 12-05-BU174

Sample Location: 001 Sample Type: Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Preservation: One 1L-amber unpreserved glass bottle and two 40mL clear vials every two hours.

Sample Date	8/7/24	→	→	→	JTG
Sample Time	0616	0816	1016	1216	JTG
Sample Observations	Clear	Clear	clear	clear	JTG
pH Measurement	7.35	7.53	7.51	7.47	JTG
Weather	60°F Clear	66°F Sunny	71°F Sunny	75°F Sunny	JTG
Comments	None	None	None	None	JTG

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski 8/7/24

Sample Technician Date

SAMPLE COLLECTION and LOG SHEET

Project Name: Iroquois Gas/Westwood Pharm **Permit #:** 12-05-BU174

Sample Location: 001 **Sample Type:** Monthly

Parameters: pH, Total Mercury, Total Cyanide, EPA Test Procedure 625

Sampling Equipment: N/A - Manual

Sample Vol/Prep: One 1L-amber unpreserved glass bottle and two 40ml. clear vials every two hours.

Sample Date	9/4/24	→	→	→	JT6
Sample Time	0611	0811	1011	1211	JT6
Sample Observations	Clear	Clear	Clear	Clear	JT6
pH Measurement	7.39	7.31	7.49	7.41	JT6
Weather	55°F Clear	61°F Sunny	66°F Sunny	71°F Sunny	JT6
Comments	None	None	None	None	JT6

*sample collection and handling comply with the guidelines established by the Environmental Protection Agency 40 CFR Part 136 and as ammended.

**pH will be analyzed at the lab once grab samples are composited.

Jason Guthowski
Sample Technician

9/4/24
Date

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	6/25/2024	7/2/2024	7/8/2024	7/17/2024	7/23/2024	7/30/2024	8/7/2024
Totalizer	gal	NA	1,669,641	1,675,857	1,680,592	1,688,661	1,693,363	1,699,320	1,705,697
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	NS	ND
Total Zinc	lbs	3.0**	NS	ND	NS	NS	NS	NS	ND
Total Cyanide	lbs	7.93**	NS	7.17E-04	NS	NS	NS	NS	7.30E-04 B
Total VOCs	mg/L	NA	NS	ND	NS	NS	NS	NS	ND
Total SVOCs	mg/L	NA	NS	2.60E-04 J	NS	NS	NS	NS	ND *1
pH	SU	5.0-12.0	NS	7.5 HF	NS	NS	NS	NS	7.5 HF
Total Daily Flow	gal	14,400	-	888	789	897	784	851	797

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	8/14/2024	8/21/2024	8/26/2024	9/4/2024	9/10/2024	9/20/2024	9/23/2024
Totalizer	gal	NA	1,711,224	1,716,704	1,719,927	1,726,581	1,730,980	1,737,542	1,738,630
Total Mercury	lbs	0.00001**	NS	NS	NS	2.83E-07	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	NS	ND	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	NS	5.97E-04	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	NS	ND *1	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	NS	7.5 HF	NS	NS	NS
Total Daily Flow	gal	14,400	790	783	645	739	733	656	363

Notes:

B = Compound was found in the blank and the sample.
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
NA = Not Applicable
ND = Not Detected at the reporting limit
NS = Not Sampled
gal = Gallons
lbs = Pounds
mg/L = Milligrams per liter
SU = Standard Units
** = Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 7/11/2024 11:17:09 AM

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.
Monthly Testing

JOB NUMBER

480-221307-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

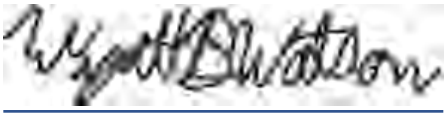
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
7/11/2024 11:17:09 AM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 21
Lab Chronicle 23
Certification Summary 24
Method Summary 25
Sample Summary 26
Chain of Custody 27
Receipt Checklists 29

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-221307-1 Eurofins Buffalo

Job Narrative
480-221307-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/2/2024 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 11.2º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 07/02/2024 as requested by the client: 001 LAB COMP (480-221307-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-717521 and analytical batch 480-717882 recovered outside control limits for the following analytes: Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-221307-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-717521.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-221307-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-221307-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	0.26	J	4.8	0.24	ug/L	1		625.1	Total/NA
Cyanide, Total	0.097		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	17.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-221307-1

Client Sample ID: TRIP BLANK

Date Collected: 07/02/24 00:00
Date Received: 07/02/24 14:15

Lab Sample ID: 480-221307-5

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/02/24 16:26	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/02/24 16:26	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/02/24 16:26	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/02/24 16:26	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/02/24 16:26	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/02/24 16:26	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/02/24 16:26	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			07/02/24 16:26	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/02/24 16:26	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/02/24 16:26	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/02/24 16:26	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/02/24 16:26	1
Acrolein	ND		100	17	ug/L			07/02/24 16:26	1
Acrylonitrile	ND		50	1.9	ug/L			07/02/24 16:26	1
Benzene	ND		5.0	0.60	ug/L			07/02/24 16:26	1
Bromoform	ND		5.0	0.47	ug/L			07/02/24 16:26	1
Bromomethane	ND		5.0	1.2	ug/L			07/02/24 16:26	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/02/24 16:26	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/02/24 16:26	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/02/24 16:26	1
Chloroethane	ND		5.0	0.87	ug/L			07/02/24 16:26	1
Chloroform	ND		5.0	0.54	ug/L			07/02/24 16:26	1
Chloromethane	ND		5.0	0.64	ug/L			07/02/24 16:26	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/02/24 16:26	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/02/24 16:26	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			07/02/24 16:26	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/02/24 16:26	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/02/24 16:26	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/02/24 16:26	1
Toluene	ND		5.0	0.45	ug/L			07/02/24 16:26	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/02/24 16:26	1
Trichloroethene	ND		5.0	0.60	ug/L			07/02/24 16:26	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/02/24 16:26	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/02/24 16:26	1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*07/02/24 16:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*07/02/24 16:26*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*07/02/24 16:26*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*07/02/24 16:26*	*1*

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-221307-1

Client Sample ID: 001 LAB COMP
Date Collected: 07/02/24 11:47
Date Received: 07/02/24 14:15

Lab Sample ID: 480-221307-6
Matrix: Wastewater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/02/24 16:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/02/24 16:50	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/02/24 16:50	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/02/24 16:50	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/02/24 16:50	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/02/24 16:50	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/02/24 16:50	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			07/02/24 16:50	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/02/24 16:50	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/02/24 16:50	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/02/24 16:50	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/02/24 16:50	1
Acrolein	ND		100	17	ug/L			07/02/24 16:50	1
Acrylonitrile	ND		50	1.9	ug/L			07/02/24 16:50	1
Benzene	ND		5.0	0.60	ug/L			07/02/24 16:50	1
Bromoform	ND		5.0	0.47	ug/L			07/02/24 16:50	1
Bromomethane	ND		5.0	1.2	ug/L			07/02/24 16:50	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/02/24 16:50	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/02/24 16:50	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/02/24 16:50	1
Chloroethane	ND		5.0	0.87	ug/L			07/02/24 16:50	1
Chloroform	ND		5.0	0.54	ug/L			07/02/24 16:50	1
Chloromethane	ND		5.0	0.64	ug/L			07/02/24 16:50	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/02/24 16:50	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/02/24 16:50	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			07/02/24 16:50	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/02/24 16:50	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/02/24 16:50	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/02/24 16:50	1
Toluene	ND		5.0	0.45	ug/L			07/02/24 16:50	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/02/24 16:50	1
Trichloroethene	ND		5.0	0.60	ug/L			07/02/24 16:50	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/02/24 16:50	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/02/24 16:50	1

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*07/02/24 16:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*07/02/24 16:50*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*07/02/24 16:50*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*07/02/24 16:50*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		07/03/24 13:27	07/09/24 19:01	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		07/03/24 13:27	07/09/24 19:01	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		07/03/24 13:27	07/09/24 19:01	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		07/03/24 13:27	07/09/24 19:01	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		07/03/24 13:27	07/09/24 19:01	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		07/03/24 13:27	07/09/24 19:01	1

Client Sample ID: 001 LAB COMP
Date Collected: 07/02/24 11:47
Date Received: 07/02/24 14:15

Lab Sample ID: 480-221307-6
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		07/03/24 13:27	07/09/24 19:01	1
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		07/03/24 13:27	07/09/24 19:01	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		07/03/24 13:27	07/09/24 19:01	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		07/03/24 13:27	07/09/24 19:01	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		07/03/24 13:27	07/09/24 19:01	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		07/03/24 13:27	07/09/24 19:01	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		07/03/24 13:27	07/09/24 19:01	1
2-Chlorophenol	ND		4.8	0.16	ug/L		07/03/24 13:27	07/09/24 19:01	1
2-Nitrophenol	ND		4.8	0.17	ug/L		07/03/24 13:27	07/09/24 19:01	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		07/03/24 13:27	07/09/24 19:01	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		07/03/24 13:27	07/09/24 19:01	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		07/03/24 13:27	07/09/24 19:01	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		07/03/24 13:27	07/09/24 19:01	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		07/03/24 13:27	07/09/24 19:01	1
4-Nitrophenol	ND		14	0.46	ug/L		07/03/24 13:27	07/09/24 19:01	1
Acenaphthene	ND		4.8	0.19	ug/L		07/03/24 13:27	07/09/24 19:01	1
Acenaphthylene	ND		4.8	0.21	ug/L		07/03/24 13:27	07/09/24 19:01	1
Anthracene	ND		4.8	0.33	ug/L		07/03/24 13:27	07/09/24 19:01	1
Benzidine	ND	*1	76	13	ug/L		07/03/24 13:27	07/09/24 19:01	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		07/03/24 13:27	07/09/24 19:01	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		07/03/24 13:27	07/09/24 19:01	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		07/03/24 13:27	07/09/24 19:01	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		07/03/24 13:27	07/09/24 19:01	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		07/03/24 13:27	07/09/24 19:01	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		07/03/24 13:27	07/09/24 19:01	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		07/03/24 13:27	07/09/24 19:01	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		07/03/24 13:27	07/09/24 19:01	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		07/03/24 13:27	07/09/24 19:01	1
Chrysene	ND		4.8	0.24	ug/L		07/03/24 13:27	07/09/24 19:01	1
Decane	ND		9.5	0.38	ug/L		07/03/24 13:27	07/09/24 19:01	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		07/03/24 13:27	07/09/24 19:01	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		07/03/24 13:27	07/09/24 19:01	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		07/03/24 13:27	07/09/24 19:01	1
Diethyl phthalate	**0.26**	**J**	4.8	0.24	ug/L		07/03/24 13:27	07/09/24 19:01	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		07/03/24 13:27	07/09/24 19:01	1
Fluoranthene	ND		4.8	0.38	ug/L		07/03/24 13:27	07/09/24 19:01	1
Fluorene	ND		4.8	0.24	ug/L		07/03/24 13:27	07/09/24 19:01	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		07/03/24 13:27	07/09/24 19:01	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		07/03/24 13:27	07/09/24 19:01	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		07/03/24 13:27	07/09/24 19:01	1
Hexachloroethane	ND		4.8	0.14	ug/L		07/03/24 13:27	07/09/24 19:01	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		07/03/24 13:27	07/09/24 19:01	1
Isophorone	ND		4.8	0.18	ug/L		07/03/24 13:27	07/09/24 19:01	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		07/03/24 13:27	07/09/24 19:01	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		07/03/24 13:27	07/09/24 19:01	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		07/03/24 13:27	07/09/24 19:01	1
Naphthalene	ND		4.8	0.20	ug/L		07/03/24 13:27	07/09/24 19:01	1
Nitrobenzene	ND		4.8	0.19	ug/L		07/03/24 13:27	07/09/24 19:01	1
Pentachlorophenol	ND		9.5	0.75	ug/L		07/03/24 13:27	07/09/24 19:01	1

Client Sample ID: 001 LAB COMP

Date Collected: 07/02/24 11:47
Date Received: 07/02/24 14:15

Lab Sample ID: 480-221307-6

Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		4.8	0.29	ug/L		07/03/24 13:27	07/09/24 19:01	1
Phenol	ND		4.8	0.083	ug/L		07/03/24 13:27	07/09/24 19:01	1
Pyrene	ND		4.8	0.33	ug/L		07/03/24 13:27	07/09/24 19:01	1
n-Octadecane	ND		9.5	0.29	ug/L		07/03/24 13:27	07/09/24 19:01	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*52 - 151*	*07/03/24 13:27*	*07/09/24 19:01*	*1*
2-Fluorobiphenyl	*55*		*44 - 120*	*07/03/24 13:27*	*07/09/24 19:01*	*1*
2-Fluorophenol (Surr)	*30*		*17 - 120*	*07/03/24 13:27*	*07/09/24 19:01*	*1*
Nitrobenzene-d5 (Surr)	*52*		*15 - 314*	*07/03/24 13:27*	*07/09/24 19:01*	*1*
p-Terphenyl-d14 (Surr)	*58*		*22 - 125*	*07/03/24 13:27*	*07/09/24 19:01*	*1*
Phenol-d5 (Surr)	*21*		*8 - 424*	*07/03/24 13:27*	*07/09/24 19:01*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		07/05/24 08:10	07/05/24 16:46	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		07/03/24 08:30	07/03/24 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.097**		0.010	0.0041	mg/L			07/08/24 22:12	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1	0.1	SU			07/05/24 14:52	1
Temperature (SM 4500 H+ B)	**17.6**	**HF**	0.001	0.001	Degrees C			07/05/24 14:52	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-221307-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-221307-6	001 LAB COMP	101	97	102	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-717353/6	Lab Control Sample	105	99	104	101
MB 480-717353/8	Method Blank	104	98	104	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-221307-5	TRIP BLANK	104	98	103	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-221307-6	001 LAB COMP	75	55	30	52	58	21

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc.
Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)		
LCS 480-717521/2-A	Lab Control Sample	123	101	63	98	104	44		
LCSD 480-717521/3-A	Lab Control Sample Dup	119	98	61	97	102	43		
MB 480-717521/1-A	Method Blank	100	90	52	86	95	35		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-717353/8
Matrix: Water
Analysis Batch: 717353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			07/02/24 14:25	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			07/02/24 14:25	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			07/02/24 14:25	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			07/02/24 14:25	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			07/02/24 14:25	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			07/02/24 14:25	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			07/02/24 14:25	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			07/02/24 14:25	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			07/02/24 14:25	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			07/02/24 14:25	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			07/02/24 14:25	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			07/02/24 14:25	1
Acrolein	ND		100	17	ug/L			07/02/24 14:25	1
Acrylonitrile	ND		50	1.9	ug/L			07/02/24 14:25	1
Benzene	ND		5.0	0.60	ug/L			07/02/24 14:25	1
Bromoform	ND		5.0	0.47	ug/L			07/02/24 14:25	1
Bromomethane	ND		5.0	1.2	ug/L			07/02/24 14:25	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			07/02/24 14:25	1
Chlorobenzene	ND		5.0	0.48	ug/L			07/02/24 14:25	1
Dibromochloromethane	ND		5.0	0.41	ug/L			07/02/24 14:25	1
Chloroethane	ND		5.0	0.87	ug/L			07/02/24 14:25	1
Chloroform	ND		5.0	0.54	ug/L			07/02/24 14:25	1
Chloromethane	ND		5.0	0.64	ug/L			07/02/24 14:25	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			07/02/24 14:25	1
Bromodichloromethane	ND		5.0	0.54	ug/L			07/02/24 14:25	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			07/02/24 14:25	1
Ethylbenzene	ND		5.0	0.46	ug/L			07/02/24 14:25	1
Methylene Chloride	ND		5.0	0.81	ug/L			07/02/24 14:25	1
Tetrachloroethene	ND		5.0	0.34	ug/L			07/02/24 14:25	1
Toluene	ND		5.0	0.45	ug/L			07/02/24 14:25	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			07/02/24 14:25	1
Trichloroethene	ND		5.0	0.60	ug/L			07/02/24 14:25	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			07/02/24 14:25	1
Vinyl chloride	ND		5.0	0.75	ug/L			07/02/24 14:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*07/02/24 14:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*07/02/24 14:25*	*1*
Toluene-d8 (Surr)	*104*		*77 - 120*		*07/02/24 14:25*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*07/02/24 14:25*	*1*

Lab Sample ID: LCS 480-717353/6
Matrix: Water
Analysis Batch: 717353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	21.5		ug/L		108	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	23.1		ug/L		115	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-717353/6
Matrix: Water
Analysis Batch: 717353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	22.5		ug/L		113	52 - 150
1,1-Dichloroethane	20.0	20.5		ug/L		102	59 - 155
1,1-Dichloroethene	20.0	20.5		ug/L		103	1 - 234
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	18 - 190
1,2-Dichloroethane	20.0	21.8		ug/L		109	49 - 155
1,2-Dichloropropane	20.0	22.1		ug/L		110	1 - 210
1,3-Dichlorobenzene	20.0	22.1		ug/L		110	59 - 156
1,4-Dichlorobenzene	20.0	22.1		ug/L		110	18 - 190
2-Chloroethyl vinyl ether	20.0	24.0	J	ug/L		120	1 - 305
Benzene	20.0	21.7		ug/L		108	37 - 151
Bromoform	20.0	20.2		ug/L		101	45 - 169
Bromomethane	20.0	24.3		ug/L		121	1 - 242
Carbon tetrachloride	20.0	21.3		ug/L		106	70 - 140
Chlorobenzene	20.0	21.7		ug/L		108	37 - 160
Dibromochloromethane	20.0	22.1		ug/L		111	53 - 149
Chloroethane	20.0	24.5		ug/L		123	14 - 230
Chloroform	20.0	21.1		ug/L		105	51 - 138
Chloromethane	20.0	21.6		ug/L		108	1 - 273
cis-1,3-Dichloropropene	20.0	22.9		ug/L		115	1 - 227
Bromodichloromethane	20.0	22.4		ug/L		112	35 - 155
Ethylbenzene	20.0	21.7		ug/L		108	37 - 162
Methylene Chloride	20.0	20.1		ug/L		100	1 - 221
Tetrachloroethene	20.0	22.2		ug/L		111	64 - 148
Toluene	20.0	21.9		ug/L		109	47 - 150
trans-1,3-Dichloropropene	20.0	22.3		ug/L		111	17 - 183
Trichloroethene	20.0	22.6		ug/L		113	71 - 157
Trichlorofluoromethane	20.0	29.5		ug/L		148	17 - 181
Vinyl chloride	20.0	19.5		ug/L		98	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*104*		*77 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-717521/1-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		07/03/24 13:27	07/05/24 13:41	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		07/03/24 13:27	07/05/24 13:41	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		07/03/24 13:27	07/05/24 13:41	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		07/03/24 13:27	07/05/24 13:41	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		07/03/24 13:27	07/05/24 13:41	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		07/03/24 13:27	07/05/24 13:41	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		07/03/24 13:27	07/05/24 13:41	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-717521/1-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		07/03/24 13:27	07/05/24 13:41	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		07/03/24 13:27	07/05/24 13:41	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		07/03/24 13:27	07/05/24 13:41	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		07/03/24 13:27	07/05/24 13:41	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		07/03/24 13:27	07/05/24 13:41	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		07/03/24 13:27	07/05/24 13:41	1
2-Chlorophenol	ND		5.0	0.17	ug/L		07/03/24 13:27	07/05/24 13:41	1
2-Nitrophenol	ND		5.0	0.18	ug/L		07/03/24 13:27	07/05/24 13:41	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		07/03/24 13:27	07/05/24 13:41	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		07/03/24 13:27	07/05/24 13:41	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		07/03/24 13:27	07/05/24 13:41	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		07/03/24 13:27	07/05/24 13:41	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		07/03/24 13:27	07/05/24 13:41	1
4-Nitrophenol	ND		15	0.49	ug/L		07/03/24 13:27	07/05/24 13:41	1
Acenaphthene	ND		5.0	0.20	ug/L		07/03/24 13:27	07/05/24 13:41	1
Acenaphthylene	ND		5.0	0.22	ug/L		07/03/24 13:27	07/05/24 13:41	1
Anthracene	ND		5.0	0.35	ug/L		07/03/24 13:27	07/05/24 13:41	1
Benzidine	ND		80	14	ug/L		07/03/24 13:27	07/05/24 13:41	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		07/03/24 13:27	07/05/24 13:41	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		07/03/24 13:27	07/05/24 13:41	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		07/03/24 13:27	07/05/24 13:41	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		07/03/24 13:27	07/05/24 13:41	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		07/03/24 13:27	07/05/24 13:41	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		07/03/24 13:27	07/05/24 13:41	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		07/03/24 13:27	07/05/24 13:41	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		07/03/24 13:27	07/05/24 13:41	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		07/03/24 13:27	07/05/24 13:41	1
Chrysene	ND		5.0	0.25	ug/L		07/03/24 13:27	07/05/24 13:41	1
Decane	ND		10	0.40	ug/L		07/03/24 13:27	07/05/24 13:41	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		07/03/24 13:27	07/05/24 13:41	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		07/03/24 13:27	07/05/24 13:41	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		07/03/24 13:27	07/05/24 13:41	1
Diethyl phthalate	ND		5.0	0.25	ug/L		07/03/24 13:27	07/05/24 13:41	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		07/03/24 13:27	07/05/24 13:41	1
Fluoranthene	ND		5.0	0.40	ug/L		07/03/24 13:27	07/05/24 13:41	1
Fluorene	ND		5.0	0.25	ug/L		07/03/24 13:27	07/05/24 13:41	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		07/03/24 13:27	07/05/24 13:41	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		07/03/24 13:27	07/05/24 13:41	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		07/03/24 13:27	07/05/24 13:41	1
Hexachloroethane	ND		5.0	0.15	ug/L		07/03/24 13:27	07/05/24 13:41	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		07/03/24 13:27	07/05/24 13:41	1
Isophorone	ND		5.0	0.19	ug/L		07/03/24 13:27	07/05/24 13:41	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		07/03/24 13:27	07/05/24 13:41	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		07/03/24 13:27	07/05/24 13:41	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		07/03/24 13:27	07/05/24 13:41	1
Naphthalene	ND		5.0	0.22	ug/L		07/03/24 13:27	07/05/24 13:41	1
Nitrobenzene	ND		5.0	0.20	ug/L		07/03/24 13:27	07/05/24 13:41	1
Pentachlorophenol	ND		10	0.79	ug/L		07/03/24 13:27	07/05/24 13:41	1
Phenanthrene	ND		5.0	0.30	ug/L		07/03/24 13:27	07/05/24 13:41	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-717521/1-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		07/03/24 13:27	07/05/24 13:41	1
Pyrene	ND		5.0	0.35	ug/L		07/03/24 13:27	07/05/24 13:41	1
n-Octadecane	ND		10	0.30	ug/L		07/03/24 13:27	07/05/24 13:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*52 - 151*	*07/03/24 13:27*	*07/05/24 13:41*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*07/03/24 13:27*	*07/05/24 13:41*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*07/03/24 13:27*	*07/05/24 13:41*	*1*
Nitrobenzene-d5 (Surr)	*86*		*15 - 314*	*07/03/24 13:27*	*07/05/24 13:41*	*1*
p-Terphenyl-d14 (Surr)	*95*		*22 - 125*	*07/03/24 13:27*	*07/05/24 13:41*	*1*
Phenol-d5 (Surr)	*35*		*8 - 424*	*07/03/24 13:27*	*07/05/24 13:41*	*1*

Lab Sample ID: LCS 480-717521/2-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	31.3		ug/L		78	44 - 142
1,2-Dichlorobenzene	40.0	28.8		ug/L		72	32 - 129
1,3-Dichlorobenzene	40.0	27.4		ug/L		68	1 - 172
1,4-Dichlorobenzene	40.0	27.8		ug/L		70	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	40.7		ug/L		102	36 - 166
2,4,6-Trichlorophenol	40.0	41.0		ug/L		102	37 - 144
2,4-Dichlorophenol	40.0	39.1		ug/L		98	39 - 135
2,4-Dimethylphenol	40.0	30.9		ug/L		77	32 - 120
2,4-Dinitrophenol	80.0	79.4		ug/L		99	1 - 191
2,4-Dinitrotoluene	40.0	42.2		ug/L		106	39 - 139
2,6-Dinitrotoluene	40.0	41.6		ug/L		104	50 - 158
2-Chloronaphthalene	40.0	36.9		ug/L		92	60 - 120
2-Chlorophenol	40.0	36.6		ug/L		91	23 - 134
2-Nitrophenol	40.0	40.4		ug/L		101	29 - 182
3,3'-Dichlorobenzidine	80.0	87.2		ug/L		109	1 - 262
4,6-Dinitro-2-methylphenol	80.0	85.3		ug/L		107	1 - 181
4-Bromophenyl phenyl ether	40.0	45.8		ug/L		115	53 - 127
4-Chloro-3-methylphenol	40.0	42.2		ug/L		105	22 - 147
4-Chlorophenyl phenyl ether	40.0	42.7		ug/L		107	25 - 158
4-Nitrophenol	80.0	45.4		ug/L		57	1 - 132
Acenaphthene	40.0	40.0		ug/L		100	47 - 145
Acenaphthylene	40.0	40.0		ug/L		100	33 - 145
Anthracene	40.0	39.2		ug/L		98	27 - 133
Benzidine	80.0	14.8	J	ug/L		18	1 - 120
Benzo[a]anthracene	40.0	40.0		ug/L		100	33 - 143
Benzo[a]pyrene	40.0	42.6		ug/L		106	17 - 163
Benzo[b]fluoranthene	40.0	44.9		ug/L		112	24 - 159
Benzo[g,h,i]perylene	40.0	45.0		ug/L		113	1 - 219
Benzo[k]fluoranthene	40.0	43.6		ug/L		109	11 - 162
Bis(2-chloroethoxy)methane	40.0	39.0		ug/L		98	33 - 184
Bis(2-chloroethyl)ether	40.0	40.2		ug/L		101	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-717521/2-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	45.7		ug/L		114	8 - 158
Butyl benzyl phthalate	40.0	42.3		ug/L		106	1 - 152
Chrysene	40.0	39.5		ug/L		99	17 - 168
Di-n-butyl phthalate	40.0	45.9		ug/L		115	1 - 120
Di-n-octyl phthalate	40.0	45.2		ug/L		113	4 - 146
Dibenz(a,h)anthracene	40.0	47.0		ug/L		118	1 - 227
Diethyl phthalate	40.0	48.2		ug/L		120	1 - 120
Dimethyl phthalate	40.0	45.3		ug/L		113	1 - 120
Fluoranthene	40.0	42.8		ug/L		107	26 - 137
Fluorene	40.0	41.8		ug/L		105	59 - 121
Hexachlorobenzene	40.0	49.7		ug/L		124	1 - 152
Hexachlorocyclopentadiene	40.0	7.23	J	ug/L		18	5 - 120
Hexachloroethane	40.0	26.0		ug/L		65	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	46.9		ug/L		117	1 - 171
Isophorone	40.0	44.3		ug/L		111	21 - 196
N-Nitrosodi-n-propylamine	40.0	41.7		ug/L		104	1 - 230
N-Nitrosodiphenylamine	40.0	40.4		ug/L		101	54 - 125
Naphthalene	40.0	35.3		ug/L		88	21 - 133
Nitrobenzene	40.0	41.6		ug/L		104	35 - 180
Pentachlorophenol	80.0	68.5		ug/L		86	14 - 176
Phenanthrene	40.0	39.5		ug/L		99	54 - 120
Phenol	40.0	18.8		ug/L		47	5 - 120
Pyrene	40.0	40.0		ug/L		100	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*123*		*52 - 151*
2-Fluorobiphenyl	*101*		*44 - 120*
2-Fluorophenol (Surr)	*63*		*17 - 120*
Nitrobenzene-d5 (Surr)	*98*		*15 - 314*
p-Terphenyl-d14 (Surr)	*104*		*22 - 125*
Phenol-d5 (Surr)	*44*		*8 - 424*

Lab Sample ID: LCSD 480-717521/3-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 717521

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	31.6		ug/L		79	44 - 142	1	34
1,2-Dichlorobenzene	40.0	29.5		ug/L		74	32 - 129	3	38
1,3-Dichlorobenzene	40.0	28.1		ug/L		70	1 - 172	2	37
1,4-Dichlorobenzene	40.0	28.7		ug/L		72	20 - 124	3	40
2,2'-Oxybis(1-chloropropane)	40.0	40.7		ug/L		102	36 - 166	0	36
2,4,6-Trichlorophenol	40.0	40.4		ug/L		101	37 - 144	1	20
2,4-Dichlorophenol	40.0	37.6		ug/L		94	39 - 135	4	23
2,4-Dimethylphenol	40.0	29.7		ug/L		74	32 - 120	4	18
2,4-Dinitrophenol	80.0	81.7		ug/L		102	1 - 191	3	29
2,4-Dinitrotoluene	40.0	40.7		ug/L		102	39 - 139	4	20
2,6-Dinitrotoluene	40.0	41.4		ug/L		103	50 - 158	1	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-717521/3-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 717521

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			40.0	36.8		ug/L		92	60 - 120	0	30
2-Chlorophenol			40.0	35.5		ug/L		89	23 - 134	3	26
2-Nitrophenol			40.0	39.3		ug/L		98	29 - 182	3	28
3,3'-Dichlorobenzidine			80.0	76.6		ug/L		96	1 - 262	13	31
4,6-Dinitro-2-methylphenol			80.0	82.5		ug/L		103	1 - 181	3	30
4-Bromophenyl phenyl ether			40.0	44.1		ug/L		110	53 - 127	4	16
4-Chloro-3-methylphenol			40.0	41.3		ug/L		103	22 - 147	2	16
4-Chlorophenyl phenyl ether			40.0	42.1		ug/L		105	25 - 158	1	15
4-Nitrophenol			80.0	41.9		ug/L		52	1 - 132	8	24
Acenaphthene			40.0	38.6		ug/L		97	47 - 145	3	25
Acenaphthylene			40.0	38.5		ug/L		96	33 - 145	4	22
Anthracene			40.0	38.0		ug/L		95	27 - 133	3	15
Benzidine			80.0	ND	*1	ug/L		3	1 - 120	150	50
Benzo[a]anthracene			40.0	38.7		ug/L		97	33 - 143	3	15
Benzo[a]pyrene			40.0	41.4		ug/L		104	17 - 163	3	15
Benzo[b]fluoranthene			40.0	40.9		ug/L		102	24 - 159	9	17
Benzo[g,h,i]perylene			40.0	43.6		ug/L		109	1 - 219	3	19
Benzo[k]fluoranthene			40.0	44.5		ug/L		111	11 - 162	2	19
Bis(2-chloroethoxy)methane			40.0	38.0		ug/L		95	33 - 184	3	23
Bis(2-chloroethyl)ether			40.0	39.2		ug/L		98	12 - 158	3	33
Bis(2-ethylhexyl) phthalate			40.0	44.3		ug/L		111	8 - 158	3	15
Butyl benzyl phthalate			40.0	41.3		ug/L		103	1 - 152	3	15
Chrysene			40.0	38.3		ug/L		96	17 - 168	3	15
Di-n-butyl phthalate			40.0	43.9		ug/L		110	1 - 120	4	15
Di-n-octyl phthalate			40.0	44.2		ug/L		110	4 - 146	2	15
Dibenz(a,h)anthracene			40.0	45.7		ug/L		114	1 - 227	3	18
Diethyl phthalate			40.0	45.8		ug/L		114	1 - 120	5	15
Dimethyl phthalate			40.0	44.0		ug/L		110	1 - 120	3	15
Fluoranthene			40.0	41.9		ug/L		105	26 - 137	2	15
Fluorene			40.0	41.0		ug/L		102	59 - 121	2	18
Hexachlorobenzene			40.0	47.9		ug/L		120	1 - 152	4	15
Hexachlorocyclopentadiene			40.0	7.25	J	ug/L		18	5 - 120	0	50
Hexachloroethane			40.0	27.2		ug/L		68	40 - 120	5	43
Indeno[1,2,3-cd]pyrene			40.0	45.7		ug/L		114	1 - 171	3	17
Isophorone			40.0	43.2		ug/L		108	21 - 196	3	21
N-Nitrosodi-n-propylamine			40.0	41.7		ug/L		104	1 - 230	0	23
N-Nitrosodiphenylamine			40.0	39.0		ug/L		98	54 - 125	4	15
Naphthalene			40.0	34.7		ug/L		87	21 - 133	2	31
Nitrobenzene			40.0	40.4		ug/L		101	35 - 180	3	27
Pentachlorophenol			80.0	65.7		ug/L		82	14 - 176	4	21
Phenanthrene			40.0	38.7		ug/L		97	54 - 120	2	16
Phenol			40.0	18.2		ug/L		45	5 - 120	3	36
Pyrene			40.0	39.5		ug/L		99	52 - 120	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*119*		*52 - 151*
2-Fluorobiphenyl	*98*		*44 - 120*
2-Fluorophenol (Surr)	*61*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-717521/3-A
Matrix: Water
Analysis Batch: 717589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 717521

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*97*		*15 - 314*
p-Terphenyl-d14 (Surr)	*102*		*22 - 125*
Phenol-d5 (Surr)	*43*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-717538/1-A
Matrix: Water
Analysis Batch: 717720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		07/05/24 08:10	07/05/24 16:23	1

Lab Sample ID: LCS 480-717538/2-A
Matrix: Water
Analysis Batch: 717720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.522		mg/L		104	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-717454/1-A
Matrix: Water
Analysis Batch: 717524

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 717454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		07/03/24 08:30	07/03/24 13:03	1

Lab Sample ID: LCS 480-717454/2-A
Matrix: Water
Analysis Batch: 717524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 717454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00745		mg/L		111	85 - 115

Lab Sample ID: 480-221307-6 MS
Matrix: Wastewater
Analysis Batch: 717524

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 717454

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00669	0.00721		mg/L		108	70 - 130

Lab Sample ID: 480-221307-6 MSD
Matrix: Wastewater
Analysis Batch: 717524

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 717454

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00669	0.00717		mg/L		107	70 - 130	1	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-717925/21
Matrix: Water
Analysis Batch: 717925

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			07/08/24 21:59	1

Lab Sample ID: HLCS 480-717925/22
Matrix: Water
Analysis Batch: 717925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.409		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-717925/23
Matrix: Water
Analysis Batch: 717925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.256		mg/L		102	90 - 110		

Lab Sample ID: 480-221307-6 MS
Matrix: Wastewater
Analysis Batch: 717925

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.097		0.100	0.196		mg/L		99	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-717688/1
Matrix: Water
Analysis Batch: 717688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: Arcadis U.S., Inc.
Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 717353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-5	TRIP BLANK	Total/NA	WQ	624.1	
480-221307-6	001 LAB COMP	Total/NA	Wastewater	624.1	
MB 480-717353/8	Method Blank	Total/NA	Water	624.1	
LCS 480-717353/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 717521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-717521/1-A	Method Blank	Total/NA	Water	625	
LCS 480-717521/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-717521/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 717589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-717521/1-A	Method Blank	Total/NA	Water	625.1	717521
LCS 480-717521/2-A	Lab Control Sample	Total/NA	Water	625.1	717521
LCSD 480-717521/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	717521

Analysis Batch: 717882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	625.1	717521

Metals

Prep Batch: 717454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 480-717454/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-717454/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-221307-6 MS	001 LAB COMP	Total/NA	Wastewater	245.1	
480-221307-6 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	

Analysis Batch: 717524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	245.1	717454
MB 480-717454/1-A	Method Blank	Total/NA	Water	245.1	717454
LCS 480-717454/2-A	Lab Control Sample	Total/NA	Water	245.1	717454
480-221307-6 MS	001 LAB COMP	Total/NA	Wastewater	245.1	717454
480-221307-6 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	717454

Prep Batch: 717538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	200.7	
MB 480-717538/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-717538/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 717720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	717538
MB 480-717538/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	717538

Metals (Continued)

Analysis Batch: 717720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-717538/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	717538

General Chemistry

Analysis Batch: 717688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-717688/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 717925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221307-6	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-717925/21	Method Blank	Total/NA	Water	335.4	
HLCS 480-717925/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-717925/23	Lab Control Sample	Total/NA	Water	335.4	
480-221307-6 MS	001 LAB COMP	Total/NA	Wastewater	335.4	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-221307-5
Date Collected: 07/02/24 00:00
Matrix: WQ
Date Received: 07/02/24 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	717353	AXK	EET BUF	07/02/24 16:26

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-221307-6
Date Collected: 07/02/24 11:47
Matrix: Wastewater
Date Received: 07/02/24 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	717353	AXK	EET BUF	07/02/24 16:50
Total/NA	Prep	625			717521	LSC	EET BUF	07/03/24 13:27
Total/NA	Analysis	625.1		1	717882	EMD	EET BUF	07/09/24 19:01
Total/NA	Prep	200.7			717538	EMO	EET BUF	07/05/24 08:10
Total/NA	Analysis	200.7 Rev 4.4		1	717720	NZG	EET BUF	07/05/24 16:46
Total/NA	Prep	245.1			717454	ESB	EET BUF	07/03/24 08:30
Total/NA	Analysis	245.1		1	717524	ESB	EET BUF	07/03/24 13:06
Total/NA	Analysis	335.4		1	717925	GW	EET BUF	07/08/24 22:12
Total/NA	Analysis	SM 4500 H+ B		1	717688	KB	EET BUF	07/05/24 14:52

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Job ID: 480-221307-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-221307-5	TRIP BLANK	WQ	07/02/24 00:00	07/02/24 14:15
480-221307-6	001 LAB COMP	Wastewater	07/02/24 11:47	07/02/24 14:15

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193793-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3
B - NaOH

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	7/2/24	0547	G	Water			X	X	X	X	X	3	Lab To
001-2		0747		Water			X	X	X	X	X	3	Composite
001-3		0947					X	X	X	X	X	3	Samples
001-4		1147					X	X	X	X	X	3	
TripBlank		—						X				2	Short Hold Time

480-221307 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Dan Gutt	7/2/24 1206	Arcadis	KS	7/2/24 1415	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 11.2 #1 Ice

Ver: 04/02/2024

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193793-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: John Schove@et eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U S., Inc	PWSID:	Analysis Requested		Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			Preservation Codes: N - None; D - HNO3; B - NaOH
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: jason gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	7/2/24	0547	G	Water			X	X	X	X	X	3	Lab To
001-2		0747		Water			X	X	X	X	X	3	Composite
001-3		0947					X	X	X	X	X	3	Samples
001-4		1147					X	X	X	X	X	3	
TripBlank		—						X				2	
													Short Hold Time

480-221307 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Dan Gutt	7/2/24 1206	Arcadis	KS	7/2/24 1415	
Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 11.2 #1 Ice

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-221307-1

Login Number: 221307
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	11.2 #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Arcadis US
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 8/13/2024 5:19:57 PM

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.
Monthly Testing

JOB NUMBER

480-222366-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

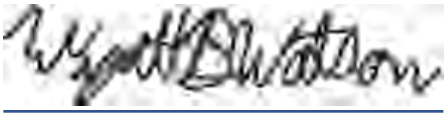
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
8/13/2024 5:19:57 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 20
Lab Chronicle 22
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 480-222366-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-222366-1 Eurofins Buffalo

Job Narrative
480-222366-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 8/7/2024 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.9º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 08/08/2024 as requested by the client: 001 LAB COMP (480-222366-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-721088 and analytical batch 480-721173 recovered outside control limits for the following analytes: Anthracene, Benzidine and Hexachlorobenzene.

Method 625.1: The following compound have been spiked at a level above the upper range of the initial calibration: 3,3'-Dichlorobenzidine. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with preparation batch 480-721088 and analytical batch 480-721173 recovered within acceptable limits for this analyte and has been qualified with an "E" flag.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-222366-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-721088.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-222366-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-222366-5

No Detections.

Client Sample ID: 001 LAB COMP — Lab Sample ID: 480-222366-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.11	B	0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	18.2	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-222366-1

Client Sample ID: TRIP BLANK

Date Collected: 08/07/24 00:00
Date Received: 08/07/24 16:05

Lab Sample ID: 480-222366-5

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/08/24 16:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/08/24 16:38	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/08/24 16:38	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/08/24 16:38	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/08/24 16:38	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/08/24 16:38	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/08/24 16:38	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/08/24 16:38	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/08/24 16:38	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/08/24 16:38	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/08/24 16:38	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/08/24 16:38	1
Acrolein	ND		100	17	ug/L			08/08/24 16:38	1
Acrylonitrile	ND		50	1.9	ug/L			08/08/24 16:38	1
Benzene	ND		5.0	0.60	ug/L			08/08/24 16:38	1
Bromoform	ND		5.0	0.47	ug/L			08/08/24 16:38	1
Bromomethane	ND		5.0	1.2	ug/L			08/08/24 16:38	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/08/24 16:38	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/08/24 16:38	1
Dibromochloromethane	ND		5.0	0.41	ug/L			08/08/24 16:38	1
Chloroethane	ND		5.0	0.87	ug/L			08/08/24 16:38	1
Chloroform	ND		5.0	0.54	ug/L			08/08/24 16:38	1
Chloromethane	ND		5.0	0.64	ug/L			08/08/24 16:38	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/08/24 16:38	1
Bromodichloromethane	ND		5.0	0.54	ug/L			08/08/24 16:38	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			08/08/24 16:38	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/08/24 16:38	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/08/24 16:38	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/08/24 16:38	1
Toluene	ND		5.0	0.45	ug/L			08/08/24 16:38	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/08/24 16:38	1
Trichloroethene	ND		5.0	0.60	ug/L			08/08/24 16:38	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			08/08/24 16:38	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/08/24 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*08/08/24 16:38*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*08/08/24 16:38*	*1*
Toluene-d8 (Surr)	*105*		*77 - 120*		*08/08/24 16:38*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*08/08/24 16:38*	*1*

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-222366-6

Date Collected: 08/07/24 12:16
Matrix: Water
Date Received: 08/07/24 16:05

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/08/24 17:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/08/24 17:02	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/08/24 17:02	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/08/24 17:02	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/08/24 17:02	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/08/24 17:02	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/08/24 17:02	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/08/24 17:02	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/08/24 17:02	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/08/24 17:02	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/08/24 17:02	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/08/24 17:02	1
Acrolein	ND		100	17	ug/L			08/08/24 17:02	1
Acrylonitrile	ND		50	1.9	ug/L			08/08/24 17:02	1
Benzene	ND		5.0	0.60	ug/L			08/08/24 17:02	1
Bromoform	ND		5.0	0.47	ug/L			08/08/24 17:02	1
Bromomethane	ND		5.0	1.2	ug/L			08/08/24 17:02	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/08/24 17:02	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/08/24 17:02	1
Dibromochloromethane	ND		5.0	0.41	ug/L			08/08/24 17:02	1
Chloroethane	ND		5.0	0.87	ug/L			08/08/24 17:02	1
Chloroform	ND		5.0	0.54	ug/L			08/08/24 17:02	1
Chloromethane	ND		5.0	0.64	ug/L			08/08/24 17:02	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/08/24 17:02	1
Bromodichloromethane	ND		5.0	0.54	ug/L			08/08/24 17:02	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			08/08/24 17:02	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/08/24 17:02	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/08/24 17:02	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/08/24 17:02	1
Toluene	ND		5.0	0.45	ug/L			08/08/24 17:02	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/08/24 17:02	1
Trichloroethene	ND		5.0	0.60	ug/L			08/08/24 17:02	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			08/08/24 17:02	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/08/24 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 130*		*08/08/24 17:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*08/08/24 17:02*	*1*
Toluene-d8 (Surr)	*105*		*77 - 120*		*08/08/24 17:02*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*08/08/24 17:02*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		08/08/24 13:27	08/09/24 19:15	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		08/08/24 13:27	08/09/24 19:15	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		08/08/24 13:27	08/09/24 19:15	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		08/08/24 13:27	08/09/24 19:15	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		08/08/24 13:27	08/09/24 19:15	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		08/08/24 13:27	08/09/24 19:15	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		08/08/24 13:27	08/09/24 19:15	1

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-222366-1

Client Sample ID: 001 LAB COMP
Date Collected: 08/07/24 12:16
Date Received: 08/07/24 16:05

Lab Sample ID: 480-222366-6
Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		08/08/24 13:27	08/09/24 19:15	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		08/08/24 13:27	08/09/24 19:15	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		08/08/24 13:27	08/09/24 19:15	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		08/08/24 13:27	08/09/24 19:15	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		08/08/24 13:27	08/09/24 19:15	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		08/08/24 13:27	08/09/24 19:15	1
2-Chlorophenol	ND		4.8	0.16	ug/L		08/08/24 13:27	08/09/24 19:15	1
2-Nitrophenol	ND		4.8	0.17	ug/L		08/08/24 13:27	08/09/24 19:15	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		08/08/24 13:27	08/09/24 19:15	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		08/08/24 13:27	08/09/24 19:15	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		08/08/24 13:27	08/09/24 19:15	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		08/08/24 13:27	08/09/24 19:15	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		08/08/24 13:27	08/09/24 19:15	1
4-Nitrophenol	ND		14	0.46	ug/L		08/08/24 13:27	08/09/24 19:15	1
Acenaphthene	ND		4.8	0.19	ug/L		08/08/24 13:27	08/09/24 19:15	1
Acenaphthylene	ND		4.8	0.21	ug/L		08/08/24 13:27	08/09/24 19:15	1
Anthracene	ND	*1	4.8	0.33	ug/L		08/08/24 13:27	08/09/24 19:15	1
Benzidine	ND	*1	76	13	ug/L		08/08/24 13:27	08/09/24 19:15	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		08/08/24 13:27	08/09/24 19:15	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		08/08/24 13:27	08/09/24 19:15	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		08/08/24 13:27	08/09/24 19:15	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		08/08/24 13:27	08/09/24 19:15	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		08/08/24 13:27	08/09/24 19:15	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		08/08/24 13:27	08/09/24 19:15	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		08/08/24 13:27	08/09/24 19:15	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		08/08/24 13:27	08/09/24 19:15	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		08/08/24 13:27	08/09/24 19:15	1
Chrysene	ND		4.8	0.24	ug/L		08/08/24 13:27	08/09/24 19:15	1
Decane	ND		9.5	0.38	ug/L		08/08/24 13:27	08/09/24 19:15	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		08/08/24 13:27	08/09/24 19:15	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		08/08/24 13:27	08/09/24 19:15	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		08/08/24 13:27	08/09/24 19:15	1
Diethyl phthalate	ND		4.8	0.24	ug/L		08/08/24 13:27	08/09/24 19:15	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		08/08/24 13:27	08/09/24 19:15	1
Fluoranthene	ND		4.8	0.38	ug/L		08/08/24 13:27	08/09/24 19:15	1
Fluorene	ND		4.8	0.24	ug/L		08/08/24 13:27	08/09/24 19:15	1
Hexachlorobenzene	ND	*1	4.8	0.24	ug/L		08/08/24 13:27	08/09/24 19:15	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		08/08/24 13:27	08/09/24 19:15	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		08/08/24 13:27	08/09/24 19:15	1
Hexachloroethane	ND		4.8	0.14	ug/L		08/08/24 13:27	08/09/24 19:15	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		08/08/24 13:27	08/09/24 19:15	1
Isophorone	ND		4.8	0.18	ug/L		08/08/24 13:27	08/09/24 19:15	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		08/08/24 13:27	08/09/24 19:15	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		08/08/24 13:27	08/09/24 19:15	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		08/08/24 13:27	08/09/24 19:15	1
Naphthalene	ND		4.8	0.20	ug/L		08/08/24 13:27	08/09/24 19:15	1
Nitrobenzene	ND		4.8	0.19	ug/L		08/08/24 13:27	08/09/24 19:15	1
Pentachlorophenol	ND		9.5	0.75	ug/L		08/08/24 13:27	08/09/24 19:15	1
Phenanthrene	ND		4.8	0.29	ug/L		08/08/24 13:27	08/09/24 19:15	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-222366-6

Date Collected: 08/07/24 12:16
Matrix: Water
Date Received: 08/07/24 16:05

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		08/08/24 13:27	08/09/24 19:15	1
Pyrene	ND		4.8	0.33	ug/L		08/08/24 13:27	08/09/24 19:15	1
n-Octadecane	ND		9.5	0.29	ug/L		08/08/24 13:27	08/09/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*52 - 151*	*08/08/24 13:27*	*08/09/24 19:15*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*08/08/24 13:27*	*08/09/24 19:15*	*1*
2-Fluorophenol (Surr)	*51*		*17 - 120*	*08/08/24 13:27*	*08/09/24 19:15*	*1*
Nitrobenzene-d5 (Surr)	*103*		*15 - 314*	*08/08/24 13:27*	*08/09/24 19:15*	*1*
p-Terphenyl-d14 (Surr)	*100*		*22 - 125*	*08/08/24 13:27*	*08/09/24 19:15*	*1*
Phenol-d5 (Surr)	*37*		*8 - 424*	*08/08/24 13:27*	*08/09/24 19:15*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		08/09/24 09:02	08/09/24 15:07	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		08/12/24 11:18	08/12/24 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.11**	**B**	0.010	0.0041	mg/L			08/12/24 10:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1	0.1	SU			08/08/24 17:07	1
Temperature (SM 4500 H+ B)	**18.2**	**HF**	0.001	0.001	Degrees C			08/08/24 17:07	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-222366-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-222366-6	001 LAB COMP	107	97	105	110
LCS 480-721042/6	Lab Control Sample	104	98	104	106
MB 480-721042/8	Method Blank	102	96	103	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-222366-5	TRIP BLANK	103	99	105	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-222366-6	001 LAB COMP	80	90	51	103	100	37
LCS 480-721088/2-A	Lab Control Sample	98	97	61	105	104	44
LCSD 480-721088/3-A	Lab Control Sample Dup	85	83	53	94	92	39
MB 480-721088/1-A	Method Blank	85	92	60	102	108	41

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-721042/8
Matrix: Water
Analysis Batch: 721042

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			08/08/24 13:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			08/08/24 13:24	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			08/08/24 13:24	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			08/08/24 13:24	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			08/08/24 13:24	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			08/08/24 13:24	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			08/08/24 13:24	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			08/08/24 13:24	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			08/08/24 13:24	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			08/08/24 13:24	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			08/08/24 13:24	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			08/08/24 13:24	1
Acrolein	ND		100	17	ug/L			08/08/24 13:24	1
Acrylonitrile	ND		50	1.9	ug/L			08/08/24 13:24	1
Benzene	ND		5.0	0.60	ug/L			08/08/24 13:24	1
Bromoform	ND		5.0	0.47	ug/L			08/08/24 13:24	1
Bromomethane	ND		5.0	1.2	ug/L			08/08/24 13:24	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			08/08/24 13:24	1
Chlorobenzene	ND		5.0	0.48	ug/L			08/08/24 13:24	1
Dibromochloromethane	ND		5.0	0.41	ug/L			08/08/24 13:24	1
Chloroethane	ND		5.0	0.87	ug/L			08/08/24 13:24	1
Chloroform	ND		5.0	0.54	ug/L			08/08/24 13:24	1
Chloromethane	ND		5.0	0.64	ug/L			08/08/24 13:24	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			08/08/24 13:24	1
Bromodichloromethane	ND		5.0	0.54	ug/L			08/08/24 13:24	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			08/08/24 13:24	1
Ethylbenzene	ND		5.0	0.46	ug/L			08/08/24 13:24	1
Methylene Chloride	ND		5.0	0.81	ug/L			08/08/24 13:24	1
Tetrachloroethene	ND		5.0	0.34	ug/L			08/08/24 13:24	1
Toluene	ND		5.0	0.45	ug/L			08/08/24 13:24	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			08/08/24 13:24	1
Trichloroethene	ND		5.0	0.60	ug/L			08/08/24 13:24	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			08/08/24 13:24	1
Vinyl chloride	ND		5.0	0.75	ug/L			08/08/24 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*08/08/24 13:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*		*08/08/24 13:24*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*08/08/24 13:24*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*08/08/24 13:24*	*1*

Lab Sample ID: LCS 480-721042/6
Matrix: Water
Analysis Batch: 721042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	21.3		ug/L		106	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	19.5		ug/L		98	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-721042/6
Matrix: Water
Analysis Batch: 721042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	52 - 150
1,1-Dichloroethane	20.0	20.7		ug/L		104	59 - 155
1,1-Dichloroethene	20.0	20.7		ug/L		104	1 - 234
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	18 - 190
1,2-Dichloroethane	20.0	20.6		ug/L		103	49 - 155
1,2-Dichloropropane	20.0	18.6		ug/L		93	1 - 210
1,3-Dichlorobenzene	20.0	19.7		ug/L		98	59 - 156
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	18 - 190
2-Chloroethyl vinyl ether	20.0	15.5	J	ug/L		78	1 - 305
Benzene	20.0	20.3		ug/L		102	37 - 151
Bromoform	20.0	20.5		ug/L		102	45 - 169
Bromomethane	20.0	22.3		ug/L		111	1 - 242
Carbon tetrachloride	20.0	21.6		ug/L		108	70 - 140
Chlorobenzene	20.0	19.4		ug/L		97	37 - 160
Dibromochloromethane	20.0	20.8		ug/L		104	53 - 149
Chloroethane	20.0	20.3		ug/L		102	14 - 230
Chloroform	20.0	20.5		ug/L		103	51 - 138
Chloromethane	20.0	22.2		ug/L		111	1 - 273
cis-1,3-Dichloropropene	20.0	17.8		ug/L		89	1 - 227
Bromodichloromethane	20.0	19.4		ug/L		97	35 - 155
Ethylbenzene	20.0	19.5		ug/L		97	37 - 162
Methylene Chloride	20.0	20.8		ug/L		104	1 - 221
Tetrachloroethene	20.0	20.1		ug/L		101	64 - 148
Toluene	20.0	20.4		ug/L		102	47 - 150
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	17 - 183
Trichloroethene	20.0	19.5		ug/L		97	71 - 157
Trichlorofluoromethane	20.0	22.7		ug/L		114	17 - 181
Vinyl chloride	20.0	23.2		ug/L		116	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*
Toluene-d8 (Surr)	*104*		*77 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-721088/1-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		08/08/24 13:27	08/09/24 15:32	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		08/08/24 13:27	08/09/24 15:32	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		08/08/24 13:27	08/09/24 15:32	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		08/08/24 13:27	08/09/24 15:32	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		08/08/24 13:27	08/09/24 15:32	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		08/08/24 13:27	08/09/24 15:32	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		08/08/24 13:27	08/09/24 15:32	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-721088/1-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		08/08/24 13:27	08/09/24 15:32	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		08/08/24 13:27	08/09/24 15:32	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		08/08/24 13:27	08/09/24 15:32	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		08/08/24 13:27	08/09/24 15:32	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		08/08/24 13:27	08/09/24 15:32	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		08/08/24 13:27	08/09/24 15:32	1
2-Chlorophenol	ND		5.0	0.17	ug/L		08/08/24 13:27	08/09/24 15:32	1
2-Nitrophenol	ND		5.0	0.18	ug/L		08/08/24 13:27	08/09/24 15:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/08/24 13:27	08/09/24 15:32	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		08/08/24 13:27	08/09/24 15:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		08/08/24 13:27	08/09/24 15:32	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		08/08/24 13:27	08/09/24 15:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		08/08/24 13:27	08/09/24 15:32	1
4-Nitrophenol	ND		15	0.49	ug/L		08/08/24 13:27	08/09/24 15:32	1
Acenaphthene	ND		5.0	0.20	ug/L		08/08/24 13:27	08/09/24 15:32	1
Acenaphthylene	ND		5.0	0.22	ug/L		08/08/24 13:27	08/09/24 15:32	1
Anthracene	ND		5.0	0.35	ug/L		08/08/24 13:27	08/09/24 15:32	1
Benzidine	ND		80	14	ug/L		08/08/24 13:27	08/09/24 15:32	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		08/08/24 13:27	08/09/24 15:32	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		08/08/24 13:27	08/09/24 15:32	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		08/08/24 13:27	08/09/24 15:32	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		08/08/24 13:27	08/09/24 15:32	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		08/08/24 13:27	08/09/24 15:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		08/08/24 13:27	08/09/24 15:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		08/08/24 13:27	08/09/24 15:32	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		08/08/24 13:27	08/09/24 15:32	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		08/08/24 13:27	08/09/24 15:32	1
Chrysene	ND		5.0	0.25	ug/L		08/08/24 13:27	08/09/24 15:32	1
Decane	ND		10	0.40	ug/L		08/08/24 13:27	08/09/24 15:32	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		08/08/24 13:27	08/09/24 15:32	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		08/08/24 13:27	08/09/24 15:32	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		08/08/24 13:27	08/09/24 15:32	1
Diethyl phthalate	ND		5.0	0.25	ug/L		08/08/24 13:27	08/09/24 15:32	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		08/08/24 13:27	08/09/24 15:32	1
Fluoranthene	ND		5.0	0.40	ug/L		08/08/24 13:27	08/09/24 15:32	1
Fluorene	ND		5.0	0.25	ug/L		08/08/24 13:27	08/09/24 15:32	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		08/08/24 13:27	08/09/24 15:32	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		08/08/24 13:27	08/09/24 15:32	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		08/08/24 13:27	08/09/24 15:32	1
Hexachloroethane	ND		5.0	0.15	ug/L		08/08/24 13:27	08/09/24 15:32	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		08/08/24 13:27	08/09/24 15:32	1
Isophorone	ND		5.0	0.19	ug/L		08/08/24 13:27	08/09/24 15:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		08/08/24 13:27	08/09/24 15:32	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		08/08/24 13:27	08/09/24 15:32	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		08/08/24 13:27	08/09/24 15:32	1
Naphthalene	ND		5.0	0.22	ug/L		08/08/24 13:27	08/09/24 15:32	1
Nitrobenzene	ND		5.0	0.20	ug/L		08/08/24 13:27	08/09/24 15:32	1
Pentachlorophenol	ND		10	0.79	ug/L		08/08/24 13:27	08/09/24 15:32	1
Phenanthrene	ND		5.0	0.30	ug/L		08/08/24 13:27	08/09/24 15:32	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-721088/1-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		08/08/24 13:27	08/09/24 15:32	1
Pyrene	ND		5.0	0.35	ug/L		08/08/24 13:27	08/09/24 15:32	1
n-Octadecane	ND		10	0.30	ug/L		08/08/24 13:27	08/09/24 15:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*52 - 151*	*08/08/24 13:27*	*08/09/24 15:32*	*1*
2-Fluorobiphenyl	*92*		*44 - 120*	*08/08/24 13:27*	*08/09/24 15:32*	*1*
2-Fluorophenol (Surr)	*60*		*17 - 120*	*08/08/24 13:27*	*08/09/24 15:32*	*1*
Nitrobenzene-d5 (Surr)	*102*		*15 - 314*	*08/08/24 13:27*	*08/09/24 15:32*	*1*
p-Terphenyl-d14 (Surr)	*108*		*22 - 125*	*08/08/24 13:27*	*08/09/24 15:32*	*1*
Phenol-d5 (Surr)	*41*		*8 - 424*	*08/08/24 13:27*	*08/09/24 15:32*	*1*

Lab Sample ID: LCS 480-721088/2-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	30.5		ug/L		76	44 - 142
1,2-Dichlorobenzene	40.0	28.5		ug/L		71	32 - 129
1,3-Dichlorobenzene	40.0	28.1		ug/L		70	1 - 172
1,4-Dichlorobenzene	40.0	27.8		ug/L		69	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	50.1		ug/L		125	36 - 166
2,4,6-Trichlorophenol	40.0	39.3		ug/L		98	37 - 144
2,4-Dichlorophenol	40.0	38.6		ug/L		97	39 - 135
2,4-Dimethylphenol	40.0	41.8		ug/L		104	32 - 120
2,4-Dinitrophenol	80.0	74.6		ug/L		93	1 - 191
2,4-Dinitrotoluene	40.0	41.1		ug/L		103	39 - 139
2,6-Dinitrotoluene	40.0	40.7		ug/L		102	50 - 158
2-Chloronaphthalene	40.0	36.2		ug/L		90	60 - 120
2-Chlorophenol	40.0	35.6		ug/L		89	23 - 134
2-Nitrophenol	40.0	36.0		ug/L		90	29 - 182
3,3'-Dichlorobenzidine	80.0	118	E	ug/L		147	1 - 262
4,6-Dinitro-2-methylphenol	80.0	79.6		ug/L		99	1 - 181
4-Bromophenyl phenyl ether	40.0	40.7		ug/L		102	53 - 127
4-Chloro-3-methylphenol	40.0	40.9		ug/L		102	22 - 147
4-Chlorophenyl phenyl ether	40.0	41.2		ug/L		103	25 - 158
4-Nitrophenol	80.0	46.4		ug/L		58	1 - 132
Acenaphthene	40.0	40.1		ug/L		100	47 - 145
Acenaphthylene	40.0	41.7		ug/L		104	33 - 145
Anthracene	40.0	45.2		ug/L		113	27 - 133
Benzidine	80.0	40.3	J	ug/L		50	1 - 120
Benzo[a]anthracene	40.0	43.6		ug/L		109	33 - 143
Benzo[a]pyrene	40.0	43.1		ug/L		108	17 - 163
Benzo[b]fluoranthene	40.0	46.2		ug/L		116	24 - 159
Benzo[g,h,i]perylene	40.0	42.2		ug/L		105	1 - 219
Benzo[k]fluoranthene	40.0	42.0		ug/L		105	11 - 162
Bis(2-chloroethoxy)methane	40.0	40.9		ug/L		102	33 - 184
Bis(2-chloroethyl)ether	40.0	40.2		ug/L		100	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-721088/2-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	43.5		ug/L		109	8 - 158
Butyl benzyl phthalate	40.0	42.1		ug/L		105	1 - 152
Chrysene	40.0	43.0		ug/L		107	17 - 168
Di-n-butyl phthalate	40.0	44.6		ug/L		111	1 - 120
Di-n-octyl phthalate	40.0	45.8		ug/L		115	4 - 146
Dibenz(a,h)anthracene	40.0	45.1		ug/L		113	1 - 227
Diethyl phthalate	40.0	47.6		ug/L		119	1 - 120
Dimethyl phthalate	40.0	44.6		ug/L		111	1 - 120
Fluoranthene	40.0	45.7		ug/L		114	26 - 137
Fluorene	40.0	43.6		ug/L		109	59 - 121
Hexachlorobenzene	40.0	41.6		ug/L		104	1 - 152
Hexachlorocyclopentadiene	40.0	17.4		ug/L		44	5 - 120
Hexachloroethane	40.0	29.0		ug/L		72	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	43.7		ug/L		109	1 - 171
Isophorone	40.0	47.3		ug/L		118	21 - 196
N-Nitrosodi-n-propylamine	40.0	45.6		ug/L		114	1 - 230
N-Nitrosodiphenylamine	40.0	40.6		ug/L		101	54 - 125
Naphthalene	40.0	35.1		ug/L		88	21 - 133
Nitrobenzene	40.0	43.4		ug/L		108	35 - 180
Pentachlorophenol	80.0	77.3		ug/L		97	14 - 176
Phenanthrene	40.0	42.9		ug/L		107	54 - 120
Phenol	40.0	18.4		ug/L		46	5 - 120
Pyrene	40.0	42.5		ug/L		106	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*52 - 151*
2-Fluorobiphenyl	*97*		*44 - 120*
2-Fluorophenol (Surr)	*61*		*17 - 120*
Nitrobenzene-d5 (Surr)	*105*		*15 - 314*
p-Terphenyl-d14 (Surr)	*104*		*22 - 125*
Phenol-d5 (Surr)	*44*		*8 - 424*

Lab Sample ID: LCSD 480-721088/3-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	25.6		ug/L		64	44 - 142	17	34
1,2-Dichlorobenzene	40.0	24.8		ug/L		62	32 - 129	14	38
1,3-Dichlorobenzene	40.0	23.3		ug/L		58	1 - 172	18	37
1,4-Dichlorobenzene	40.0	23.1		ug/L		58	20 - 124	18	40
2,2'-Oxybis(1-chloropropane)	40.0	43.5		ug/L		109	36 - 166	14	36
2,4,6-Trichlorophenol	40.0	36.3		ug/L		91	37 - 144	8	20
2,4-Dichlorophenol	40.0	34.4		ug/L		86	39 - 135	11	23
2,4-Dimethylphenol	40.0	37.2		ug/L		93	32 - 120	11	18
2,4-Dinitrophenol	80.0	63.8		ug/L		80	1 - 191	16	29
2,4-Dinitrotoluene	40.0	36.0		ug/L		90	39 - 139	13	20
2,6-Dinitrotoluene	40.0	36.1		ug/L		90	50 - 158	12	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-721088/3-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene	40.0	31.3		ug/L		78	60 - 120	15	30
2-Chlorophenol	40.0	31.6		ug/L		79	23 - 134	12	26
2-Nitrophenol	40.0	33.2		ug/L		83	29 - 182	8	28
3,3'-Dichlorobenzidine	80.0	102	E	ug/L		128	1 - 262	14	31
4,6-Dinitro-2-methylphenol	80.0	70.1		ug/L		88	1 - 181	13	30
4-Bromophenyl phenyl ether	40.0	34.6		ug/L		86	53 - 127	16	16
4-Chloro-3-methylphenol	40.0	37.5		ug/L		94	22 - 147	9	16
4-Chlorophenyl phenyl ether	40.0	35.8		ug/L		89	25 - 158	14	15
4-Nitrophenol	80.0	39.6		ug/L		50	1 - 132	16	24
Acenaphthene	40.0	35.1		ug/L		88	47 - 145	13	25
Acenaphthylene	40.0	37.1		ug/L		93	33 - 145	12	22
Anthracene	40.0	38.2	*1	ug/L		95	27 - 133	17	15
Benzidine	80.0	21.5	J *1	ug/L		27	1 - 120	61	50
Benzo[a]anthracene	40.0	39.1		ug/L		98	33 - 143	11	15
Benzo[a]pyrene	40.0	38.3		ug/L		96	17 - 163	12	15
Benzo[b]fluoranthene	40.0	40.6		ug/L		101	24 - 159	13	17
Benzo[g,h,i]perylene	40.0	37.3		ug/L		93	1 - 219	12	19
Benzo[k]fluoranthene	40.0	38.0		ug/L		95	11 - 162	10	19
Bis(2-chloroethoxy)methane	40.0	37.7		ug/L		94	33 - 184	8	23
Bis(2-chloroethyl)ether	40.0	34.7		ug/L		87	12 - 158	15	33
Bis(2-ethylhexyl) phthalate	40.0	38.3		ug/L		96	8 - 158	13	15
Butyl benzyl phthalate	40.0	38.0		ug/L		95	1 - 152	10	15
Chrysene	40.0	36.9		ug/L		92	17 - 168	15	15
Di-n-butyl phthalate	40.0	39.2		ug/L		98	1 - 120	13	15
Di-n-octyl phthalate	40.0	40.4		ug/L		101	4 - 146	13	15
Dibenz(a,h)anthracene	40.0	39.3		ug/L		98	1 - 227	14	18
Diethyl phthalate	40.0	41.8		ug/L		104	1 - 120	13	15
Dimethyl phthalate	40.0	38.3		ug/L		96	1 - 120	15	15
Fluoranthene	40.0	39.2		ug/L		98	26 - 137	15	15
Fluorene	40.0	38.2		ug/L		96	59 - 121	13	18
Hexachlorobenzene	40.0	35.6	*1	ug/L		89	1 - 152	16	15
Hexachlorocyclopentadiene	40.0	16.7		ug/L		42	5 - 120	4	50
Hexachloroethane	40.0	25.2		ug/L		63	40 - 120	14	43
Indeno[1,2,3-cd]pyrene	40.0	38.6		ug/L		96	1 - 171	12	17
Isophorone	40.0	42.1		ug/L		105	21 - 196	12	21
N-Nitrosodi-n-propylamine	40.0	39.3		ug/L		98	1 - 230	15	23
N-Nitrosodiphenylamine	40.0	35.5		ug/L		89	54 - 125	13	15
Naphthalene	40.0	30.0		ug/L		75	21 - 133	16	31
Nitrobenzene	40.0	37.3		ug/L		93	35 - 180	15	27
Pentachlorophenol	80.0	63.2		ug/L		79	14 - 176	20	21
Phenanthrene	40.0	37.1		ug/L		93	54 - 120	14	16
Phenol	40.0	16.3		ug/L		41	5 - 120	12	36
Pyrene	40.0	38.1		ug/L		95	52 - 120	11	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*52 - 151*
2-Fluorobiphenyl	*83*		*44 - 120*
2-Fluorophenol (Surr)	*53*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-721088/3-A
Matrix: Water
Analysis Batch: 721173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721088

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*94*		*15 - 314*
p-Terphenyl-d14 (Surr)	*92*		*22 - 125*
Phenol-d5 (Surr)	*39*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-721124/1-A
Matrix: Water
Analysis Batch: 721305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		08/09/24 09:02	08/09/24 14:23	1

Lab Sample ID: LCS 480-721124/2-A
Matrix: Water
Analysis Batch: 721305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.566		mg/L		113	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-721391/1-A
Matrix: Water
Analysis Batch: 721512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		08/12/24 11:18	08/12/24 14:33	1

Lab Sample ID: LCS 480-721391/2-A
Matrix: Water
Analysis Batch: 721512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00711		mg/L		106	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-721489/47
Matrix: Water
Analysis Batch: 721489

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.0152		0.010	0.0041	mg/L			08/12/24 11:02	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: HLCS 480-721489/22
Matrix: Water
Analysis Batch: 721489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.401		mg/L		100	90 - 110

Lab Sample ID: LCS 480-721489/23
Matrix: Water
Analysis Batch: 721489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.237		mg/L		95	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-721249/1
Matrix: Water
Analysis Batch: 721249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-222366-1

GC/MS VOA

Analysis Batch: 721042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-5	TRIP BLANK	Total/NA	WQ	624.1	
480-222366-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-721042/8	Method Blank	Total/NA	Water	624.1	
LCS 480-721042/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 721088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	625	
MB 480-721088/1-A	Method Blank	Total/NA	Water	625	
LCS 480-721088/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-721088/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 721173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	625.1	721088
MB 480-721088/1-A	Method Blank	Total/NA	Water	625.1	721088
LCS 480-721088/2-A	Lab Control Sample	Total/NA	Water	625.1	721088
LCSD 480-721088/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	721088

Metals

Prep Batch: 721124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-721124/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-721124/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 721305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	721124
MB 480-721124/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	721124
LCS 480-721124/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	721124

Prep Batch: 721391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-721391/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-721391/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 721512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	245.1	721391
MB 480-721391/1-A	Method Blank	Total/NA	Water	245.1	721391
LCS 480-721391/2-A	Lab Control Sample	Total/NA	Water	245.1	721391

General Chemistry

Analysis Batch: 721249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	

General Chemistry (Continued)

Analysis Batch: 721249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-721249/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 721489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-222366-6	001 LAB COMP	Total/NA	Water	335.4	
MB 480-721489/47	Method Blank	Total/NA	Water	335.4	
HLCS 480-721489/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-721489/23	Lab Control Sample	Total/NA	Water	335.4	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-222366-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-222366-5
Date Collected: 08/07/24 00:00
Matrix: WQ
Date Received: 08/07/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	721042	AXK	EET BUF	08/08/24 16:38

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-222366-6
Date Collected: 08/07/24 12:16
Matrix: Water
Date Received: 08/07/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	721042	AXK	EET BUF	08/08/24 17:02
Total/NA	Prep	625			721088	LSC	EET BUF	08/08/24 13:27
Total/NA	Analysis	625.1		1	721173	JMM	EET BUF	08/09/24 19:15
Total/NA	Prep	200.7			721124	EMO	EET BUF	08/09/24 09:02
Total/NA	Analysis	200.7 Rev 4.4		1	721305	NZG	EET BUF	08/09/24 15:07
Total/NA	Prep	245.1			721391	ESB	EET BUF	08/12/24 11:18
Total/NA	Analysis	245.1		1	721512	ESB	EET BUF	08/12/24 14:37
Total/NA	Analysis	335.4		1	721489	CLT	EET BUF	08/12/24 10:25
Total/NA	Analysis	SM 4500 H+ B		1	721249	KB	EET BUF	08/08/24 17:07

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 480-222366-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Job ID: 480-222366-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Job ID: 480-222366-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-222366-5	TRIP BLANK	WQ	08/07/24 00:00	08/07/24 16:05
480-222366-6	001 LAB COMP	Water	08/07/24 12:16	08/07/24 16:05

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193794-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 30185775			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	8/7/24	0616	G	Water			X	X	X	X	X	3	Lab To
001-2		0816		Water			X	X	X	X	X	3	Composite
001-3		1016					X	X	X	X	X	3	Samples
001-4		1216					X	X	X	X	X	3	
Trip Blank		—						X				2	

Short Hold Time

480-222366 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Dan Gutt	Date/Time: 8/7/24/1220	Company: Arcadis	Received by: UPS Kiw 1440
Relinquished by: Will Hughes	Date/Time: 8/7/24/1605	Company: Arcadis	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Received by:	Date/Time:	Company
Received by:	Date/Time: 8/7/24 1605	Company: TA
Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.9# ICE

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-222366-1

Login Number: 222366
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9 #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Arcadis US
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 9/16/2024 12:30:31 PM

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.
Monthly Testing

JOB NUMBER

480-223050-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

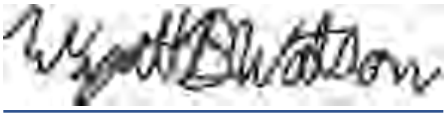
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
9/16/2024 12:30:31 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 21
Lab Chronicle 23
Certification Summary 24
Method Summary 25
Sample Summary 26
Chain of Custody 27
Receipt Checklists 28

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 480-223050-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-223050-1 Eurofins Buffalo

Job Narrative
480-223050-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/4/2024 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 10.9º C.

GC/MS VOA
Method 624.1: The continuing calibration verification (CCV) associated with batch 480-723969 recovered outside acceptance criteria, low biased, for Acrolein. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 624.1: The following Volatile sample was composited by the laboratory on 09/04/2024 as requested by the client: 001 LAB COMP (480-223050-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-724084 and analytical batch 480-724172 recovered outside control limits for the following analytes: Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-223050-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-724084.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223050-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-223050-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223050-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000042	J B	0.00020	0.000042	mg/L	1		245.1	Total/NA
Cyanide, Total	0.097		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	18.1	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-223050-5

Date Collected: 09/04/24 00:00
Matrix: WQ
Date Received: 09/04/24 13:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/04/24 22:46	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/04/24 22:46	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/04/24 22:46	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/04/24 22:46	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/04/24 22:46	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/04/24 22:46	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/04/24 22:46	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/04/24 22:46	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/04/24 22:46	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/04/24 22:46	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/04/24 22:46	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/04/24 22:46	1
Acrolein	ND		100	17	ug/L			09/04/24 22:46	1
Acrylonitrile	ND		50	1.9	ug/L			09/04/24 22:46	1
Benzene	ND		5.0	0.60	ug/L			09/04/24 22:46	1
Bromoform	ND		5.0	0.47	ug/L			09/04/24 22:46	1
Bromomethane	ND		5.0	1.2	ug/L			09/04/24 22:46	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/04/24 22:46	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/04/24 22:46	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/04/24 22:46	1
Chloroethane	ND		5.0	0.87	ug/L			09/04/24 22:46	1
Chloroform	ND		5.0	0.54	ug/L			09/04/24 22:46	1
Chloromethane	ND		5.0	0.64	ug/L			09/04/24 22:46	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/04/24 22:46	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/04/24 22:46	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/04/24 22:46	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/04/24 22:46	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/04/24 22:46	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/04/24 22:46	1
Toluene	ND		5.0	0.45	ug/L			09/04/24 22:46	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/04/24 22:46	1
Trichloroethene	ND		5.0	0.60	ug/L			09/04/24 22:46	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/04/24 22:46	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/04/24 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*68 - 130*		*09/04/24 22:46*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*09/04/24 22:46*	*1*
Toluene-d8 (Surr)	*106*		*77 - 120*		*09/04/24 22:46*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*09/04/24 22:46*	*1*

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223050-6

Date Collected: 09/04/24 12:11
Matrix: Wastewater
Date Received: 09/04/24 13:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/04/24 23:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/04/24 23:11	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/04/24 23:11	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/04/24 23:11	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/04/24 23:11	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/04/24 23:11	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/04/24 23:11	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/04/24 23:11	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/04/24 23:11	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/04/24 23:11	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/04/24 23:11	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/04/24 23:11	1
Acrolein	ND		100	17	ug/L			09/04/24 23:11	1
Acrylonitrile	ND		50	1.9	ug/L			09/04/24 23:11	1
Benzene	ND		5.0	0.60	ug/L			09/04/24 23:11	1
Bromoform	ND		5.0	0.47	ug/L			09/04/24 23:11	1
Bromomethane	ND		5.0	1.2	ug/L			09/04/24 23:11	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/04/24 23:11	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/04/24 23:11	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/04/24 23:11	1
Chloroethane	ND		5.0	0.87	ug/L			09/04/24 23:11	1
Chloroform	ND		5.0	0.54	ug/L			09/04/24 23:11	1
Chloromethane	ND		5.0	0.64	ug/L			09/04/24 23:11	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/04/24 23:11	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/04/24 23:11	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/04/24 23:11	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/04/24 23:11	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/04/24 23:11	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/04/24 23:11	1
Toluene	ND		5.0	0.45	ug/L			09/04/24 23:11	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/04/24 23:11	1
Trichloroethene	ND		5.0	0.60	ug/L			09/04/24 23:11	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/04/24 23:11	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/04/24 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*68 - 130*		*09/04/24 23:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*09/04/24 23:11*	*1*
Toluene-d8 (Surr)	*105*		*77 - 120*		*09/04/24 23:11*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*09/04/24 23:11*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		09/05/24 13:28	09/06/24 19:05	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		09/05/24 13:28	09/06/24 19:05	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		09/05/24 13:28	09/06/24 19:05	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		09/05/24 13:28	09/06/24 19:05	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		09/05/24 13:28	09/06/24 19:05	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		09/05/24 13:28	09/06/24 19:05	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		09/05/24 13:28	09/06/24 19:05	1

Client Sample ID: 001 LAB COMP
Date Collected: 09/04/24 12:11
Date Received: 09/04/24 13:20

Lab Sample ID: 480-223050-6
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		09/05/24 13:28	09/06/24 19:05	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		09/05/24 13:28	09/06/24 19:05	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		09/05/24 13:28	09/06/24 19:05	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		09/05/24 13:28	09/06/24 19:05	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		09/05/24 13:28	09/06/24 19:05	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		09/05/24 13:28	09/06/24 19:05	1
2-Chlorophenol	ND		4.8	0.16	ug/L		09/05/24 13:28	09/06/24 19:05	1
2-Nitrophenol	ND		4.8	0.17	ug/L		09/05/24 13:28	09/06/24 19:05	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		09/05/24 13:28	09/06/24 19:05	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		09/05/24 13:28	09/06/24 19:05	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		09/05/24 13:28	09/06/24 19:05	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		09/05/24 13:28	09/06/24 19:05	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		09/05/24 13:28	09/06/24 19:05	1
4-Nitrophenol	ND		14	0.46	ug/L		09/05/24 13:28	09/06/24 19:05	1
Acenaphthene	ND		4.8	0.19	ug/L		09/05/24 13:28	09/06/24 19:05	1
Acenaphthylene	ND		4.8	0.21	ug/L		09/05/24 13:28	09/06/24 19:05	1
Anthracene	ND		4.8	0.33	ug/L		09/05/24 13:28	09/06/24 19:05	1
Benzidine	ND	*1	76	13	ug/L		09/05/24 13:28	09/06/24 19:05	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		09/05/24 13:28	09/06/24 19:05	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		09/05/24 13:28	09/06/24 19:05	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		09/05/24 13:28	09/06/24 19:05	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		09/05/24 13:28	09/06/24 19:05	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		09/05/24 13:28	09/06/24 19:05	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		09/05/24 13:28	09/06/24 19:05	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		09/05/24 13:28	09/06/24 19:05	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		09/05/24 13:28	09/06/24 19:05	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		09/05/24 13:28	09/06/24 19:05	1
Chrysene	ND		4.8	0.24	ug/L		09/05/24 13:28	09/06/24 19:05	1
Decane	ND		9.5	0.38	ug/L		09/05/24 13:28	09/06/24 19:05	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		09/05/24 13:28	09/06/24 19:05	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		09/05/24 13:28	09/06/24 19:05	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		09/05/24 13:28	09/06/24 19:05	1
Diethyl phthalate	ND		4.8	0.24	ug/L		09/05/24 13:28	09/06/24 19:05	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		09/05/24 13:28	09/06/24 19:05	1
Fluoranthene	ND		4.8	0.38	ug/L		09/05/24 13:28	09/06/24 19:05	1
Fluorene	ND		4.8	0.24	ug/L		09/05/24 13:28	09/06/24 19:05	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		09/05/24 13:28	09/06/24 19:05	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		09/05/24 13:28	09/06/24 19:05	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		09/05/24 13:28	09/06/24 19:05	1
Hexachloroethane	ND		4.8	0.14	ug/L		09/05/24 13:28	09/06/24 19:05	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		09/05/24 13:28	09/06/24 19:05	1
Isophorone	ND		4.8	0.18	ug/L		09/05/24 13:28	09/06/24 19:05	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		09/05/24 13:28	09/06/24 19:05	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		09/05/24 13:28	09/06/24 19:05	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		09/05/24 13:28	09/06/24 19:05	1
Naphthalene	ND		4.8	0.20	ug/L		09/05/24 13:28	09/06/24 19:05	1
Nitrobenzene	ND		4.8	0.19	ug/L		09/05/24 13:28	09/06/24 19:05	1
Pentachlorophenol	ND		9.5	0.75	ug/L		09/05/24 13:28	09/06/24 19:05	1
Phenanthrene	ND		4.8	0.29	ug/L		09/05/24 13:28	09/06/24 19:05	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223050-6

Date Collected: 09/04/24 12:11
Matrix: Wastewater
Date Received: 09/04/24 13:20

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		09/05/24 13:28	09/06/24 19:05	1
Pyrene	ND		4.8	0.33	ug/L		09/05/24 13:28	09/06/24 19:05	1
n-Octadecane	ND		9.5	0.29	ug/L		09/05/24 13:28	09/06/24 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*118*		*52 - 151*	*09/05/24 13:28*	*09/06/24 19:05*	*1*
2-Fluorobiphenyl	*99*		*44 - 120*	*09/05/24 13:28*	*09/06/24 19:05*	*1*
2-Fluorophenol (Surr)	*51*		*17 - 120*	*09/05/24 13:28*	*09/06/24 19:05*	*1*
Nitrobenzene-d5 (Surr)	*99*		*15 - 314*	*09/05/24 13:28*	*09/06/24 19:05*	*1*
p-Terphenyl-d14 (Surr)	*95*		*22 - 125*	*09/05/24 13:28*	*09/06/24 19:05*	*1*
Phenol-d5 (Surr)	*37*		*8 - 424*	*09/05/24 13:28*	*09/06/24 19:05*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		09/11/24 08:34	09/13/24 13:04	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000042**	**J B**	0.00020	0.000042	mg/L		09/11/24 09:39	09/11/24 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.097**		0.010	0.0041	mg/L			09/09/24 11:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1	0.1	SU			09/10/24 14:54	1
Temperature (SM 4500 H+ B)	**18.1**	**HF**	0.001	0.001	Degrees C			09/10/24 14:54	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-223050-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-223050-6	001 LAB COMP	114	94	105	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-723969/6	Lab Control Sample	105	96	103	110
MB 480-723969/8	Method Blank	110	94	106	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-223050-5	TRIP BLANK	115	94	106	112

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-223050-6	001 LAB COMP	118	99	51	99	95	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223050-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)		
LCS 480-724084/2-A	Lab Control Sample	123	98	58	100	98	45		
LCSD 480-724084/3-A	Lab Control Sample Dup	136	105	59	105	102	48		
MB 480-724084/1-A	Method Blank	112	97	56	97	96	41		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-723969/8
Matrix: Water
Analysis Batch: 723969

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/04/24 17:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/04/24 17:33	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/04/24 17:33	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/04/24 17:33	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/04/24 17:33	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/04/24 17:33	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/04/24 17:33	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/04/24 17:33	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/04/24 17:33	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/04/24 17:33	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/04/24 17:33	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/04/24 17:33	1
Acrolein	ND		100	17	ug/L			09/04/24 17:33	1
Acrylonitrile	ND		50	1.9	ug/L			09/04/24 17:33	1
Benzene	ND		5.0	0.60	ug/L			09/04/24 17:33	1
Bromoform	ND		5.0	0.47	ug/L			09/04/24 17:33	1
Bromomethane	ND		5.0	1.2	ug/L			09/04/24 17:33	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/04/24 17:33	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/04/24 17:33	1
Dibromochloromethane	ND		5.0	0.41	ug/L			09/04/24 17:33	1
Chloroethane	ND		5.0	0.87	ug/L			09/04/24 17:33	1
Chloroform	ND		5.0	0.54	ug/L			09/04/24 17:33	1
Chloromethane	ND		5.0	0.64	ug/L			09/04/24 17:33	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/04/24 17:33	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/04/24 17:33	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			09/04/24 17:33	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/04/24 17:33	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/04/24 17:33	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/04/24 17:33	1
Toluene	ND		5.0	0.45	ug/L			09/04/24 17:33	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/04/24 17:33	1
Trichloroethene	ND		5.0	0.60	ug/L			09/04/24 17:33	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			09/04/24 17:33	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/04/24 17:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*68 - 130*		*09/04/24 17:33*	*1*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*		*09/04/24 17:33*	*1*
Toluene-d8 (Surr)	*106*		*77 - 120*		*09/04/24 17:33*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*09/04/24 17:33*	*1*

Lab Sample ID: LCS 480-723969/6
Matrix: Water
Analysis Batch: 723969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	22.7		ug/L		114	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	18.7		ug/L		94	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-723969/6
Matrix: Water
Analysis Batch: 723969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	18.6		ug/L		93	52 - 150
1,1-Dichloroethane	20.0	22.0		ug/L		110	59 - 155
1,1-Dichloroethene	20.0	21.9		ug/L		109	1 - 234
1,2-Dichlorobenzene	20.0	20.5		ug/L		102	18 - 190
1,2-Dichloroethane	20.0	21.7		ug/L		108	49 - 155
1,2-Dichloropropane	20.0	19.7		ug/L		99	1 - 210
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	59 - 156
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190
2-Chloroethyl vinyl ether	20.0	15.9	J	ug/L		80	1 - 305
Benzene	20.0	20.8		ug/L		104	37 - 151
Bromoform	20.0	20.6		ug/L		103	45 - 169
Bromomethane	20.0	26.0		ug/L		130	1 - 242
Carbon tetrachloride	20.0	23.8		ug/L		119	70 - 140
Chlorobenzene	20.0	19.6		ug/L		98	37 - 160
Dibromochloromethane	20.0	21.3		ug/L		106	53 - 149
Chloroethane	20.0	23.9		ug/L		119	14 - 230
Chloroform	20.0	21.4		ug/L		107	51 - 138
Chloromethane	20.0	23.0		ug/L		115	1 - 273
cis-1,3-Dichloropropene	20.0	17.8		ug/L		89	1 - 227
Bromodichloromethane	20.0	20.1		ug/L		100	35 - 155
Ethylbenzene	20.0	19.5		ug/L		97	37 - 162
Methylene Chloride	20.0	22.4		ug/L		112	1 - 221
Tetrachloroethene	20.0	20.7		ug/L		103	64 - 148
Toluene	20.0	20.3		ug/L		101	47 - 150
trans-1,3-Dichloropropene	20.0	17.9		ug/L		90	17 - 183
Trichloroethene	20.0	20.8		ug/L		104	71 - 157
Trichlorofluoromethane	20.0	25.2		ug/L		126	17 - 181
Vinyl chloride	20.0	25.5		ug/L		128	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*68 - 130*
4-Bromofluorobenzene (Surr)	*96*		*76 - 123*
Toluene-d8 (Surr)	*103*		*77 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-724084/1-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		09/05/24 13:28	09/06/24 17:09	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		09/05/24 13:28	09/06/24 17:09	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		09/05/24 13:28	09/06/24 17:09	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		09/05/24 13:28	09/06/24 17:09	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		09/05/24 13:28	09/06/24 17:09	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		09/05/24 13:28	09/06/24 17:09	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		09/05/24 13:28	09/06/24 17:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-724084/1-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		09/05/24 13:28	09/06/24 17:09	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		09/05/24 13:28	09/06/24 17:09	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		09/05/24 13:28	09/06/24 17:09	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		09/05/24 13:28	09/06/24 17:09	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		09/05/24 13:28	09/06/24 17:09	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		09/05/24 13:28	09/06/24 17:09	1
2-Chlorophenol	ND		5.0	0.17	ug/L		09/05/24 13:28	09/06/24 17:09	1
2-Nitrophenol	ND		5.0	0.18	ug/L		09/05/24 13:28	09/06/24 17:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		09/05/24 13:28	09/06/24 17:09	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		09/05/24 13:28	09/06/24 17:09	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		09/05/24 13:28	09/06/24 17:09	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		09/05/24 13:28	09/06/24 17:09	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		09/05/24 13:28	09/06/24 17:09	1
4-Nitrophenol	ND		15	0.49	ug/L		09/05/24 13:28	09/06/24 17:09	1
Acenaphthene	ND		5.0	0.20	ug/L		09/05/24 13:28	09/06/24 17:09	1
Acenaphthylene	ND		5.0	0.22	ug/L		09/05/24 13:28	09/06/24 17:09	1
Anthracene	ND		5.0	0.35	ug/L		09/05/24 13:28	09/06/24 17:09	1
Benzidine	ND		80	14	ug/L		09/05/24 13:28	09/06/24 17:09	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		09/05/24 13:28	09/06/24 17:09	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		09/05/24 13:28	09/06/24 17:09	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		09/05/24 13:28	09/06/24 17:09	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		09/05/24 13:28	09/06/24 17:09	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		09/05/24 13:28	09/06/24 17:09	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		09/05/24 13:28	09/06/24 17:09	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		09/05/24 13:28	09/06/24 17:09	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		09/05/24 13:28	09/06/24 17:09	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		09/05/24 13:28	09/06/24 17:09	1
Chrysene	ND		5.0	0.25	ug/L		09/05/24 13:28	09/06/24 17:09	1
Decane	ND		10	0.40	ug/L		09/05/24 13:28	09/06/24 17:09	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		09/05/24 13:28	09/06/24 17:09	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		09/05/24 13:28	09/06/24 17:09	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		09/05/24 13:28	09/06/24 17:09	1
Diethyl phthalate	ND		5.0	0.25	ug/L		09/05/24 13:28	09/06/24 17:09	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		09/05/24 13:28	09/06/24 17:09	1
Fluoranthene	ND		5.0	0.40	ug/L		09/05/24 13:28	09/06/24 17:09	1
Fluorene	ND		5.0	0.25	ug/L		09/05/24 13:28	09/06/24 17:09	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		09/05/24 13:28	09/06/24 17:09	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		09/05/24 13:28	09/06/24 17:09	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		09/05/24 13:28	09/06/24 17:09	1
Hexachloroethane	ND		5.0	0.15	ug/L		09/05/24 13:28	09/06/24 17:09	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		09/05/24 13:28	09/06/24 17:09	1
Isophorone	ND		5.0	0.19	ug/L		09/05/24 13:28	09/06/24 17:09	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		09/05/24 13:28	09/06/24 17:09	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		09/05/24 13:28	09/06/24 17:09	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		09/05/24 13:28	09/06/24 17:09	1
Naphthalene	ND		5.0	0.22	ug/L		09/05/24 13:28	09/06/24 17:09	1
Nitrobenzene	ND		5.0	0.20	ug/L		09/05/24 13:28	09/06/24 17:09	1
Pentachlorophenol	ND		10	0.79	ug/L		09/05/24 13:28	09/06/24 17:09	1
Phenanthrene	ND		5.0	0.30	ug/L		09/05/24 13:28	09/06/24 17:09	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-724084/1-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		09/05/24 13:28	09/06/24 17:09	1
Pyrene	ND		5.0	0.35	ug/L		09/05/24 13:28	09/06/24 17:09	1
n-Octadecane	ND		10	0.30	ug/L		09/05/24 13:28	09/06/24 17:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*112*		*52 - 151*	*09/05/24 13:28*	*09/06/24 17:09*	*1*
2-Fluorobiphenyl	*97*		*44 - 120*	*09/05/24 13:28*	*09/06/24 17:09*	*1*
2-Fluorophenol (Surr)	*56*		*17 - 120*	*09/05/24 13:28*	*09/06/24 17:09*	*1*
Nitrobenzene-d5 (Surr)	*97*		*15 - 314*	*09/05/24 13:28*	*09/06/24 17:09*	*1*
p-Terphenyl-d14 (Surr)	*96*		*22 - 125*	*09/05/24 13:28*	*09/06/24 17:09*	*1*
Phenol-d5 (Surr)	*41*		*8 - 424*	*09/05/24 13:28*	*09/06/24 17:09*	*1*

Lab Sample ID: LCS 480-724084/2-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	30.6		ug/L		77	44 - 142
1,2-Dichlorobenzene	40.0	29.5		ug/L		74	32 - 129
1,3-Dichlorobenzene	40.0	28.0		ug/L		70	1 - 172
1,4-Dichlorobenzene	40.0	28.8		ug/L		72	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	41.8		ug/L		104	36 - 166
2,4,6-Trichlorophenol	40.0	38.2		ug/L		95	37 - 144
2,4-Dichlorophenol	40.0	39.3		ug/L		98	39 - 135
2,4-Dimethylphenol	40.0	40.9		ug/L		102	32 - 120
2,4-Dinitrophenol	80.0	83.5		ug/L		104	1 - 191
2,4-Dinitrotoluene	40.0	41.2		ug/L		103	39 - 139
2,6-Dinitrotoluene	40.0	39.7		ug/L		99	50 - 158
2-Chloronaphthalene	40.0	38.0		ug/L		95	60 - 120
2-Chlorophenol	40.0	36.1		ug/L		90	23 - 134
2-Nitrophenol	40.0	37.7		ug/L		94	29 - 182
3,3'-Dichlorobenzidine	40.0	44.2		ug/L		111	1 - 262
4,6-Dinitro-2-methylphenol	80.0	84.3		ug/L		105	1 - 181
4-Bromophenyl phenyl ether	40.0	40.9		ug/L		102	53 - 127
4-Chloro-3-methylphenol	40.0	40.2		ug/L		101	22 - 147
4-Chlorophenyl phenyl ether	40.0	41.4		ug/L		103	25 - 158
4-Nitrophenol	80.0	45.1		ug/L		56	1 - 132
Acenaphthene	40.0	41.1		ug/L		103	47 - 145
Acenaphthylene	40.0	41.4		ug/L		104	33 - 145
Anthracene	40.0	42.2		ug/L		105	27 - 133
Benzidine	40.0	ND		ug/L		6	1 - 120
Benzo[a]anthracene	40.0	38.8		ug/L		97	33 - 143
Benzo[a]pyrene	40.0	42.4		ug/L		106	17 - 163
Benzo[b]fluoranthene	40.0	40.3		ug/L		101	24 - 159
Benzo[g,h,i]perylene	40.0	42.0		ug/L		105	1 - 219
Benzo[k]fluoranthene	40.0	45.1		ug/L		113	11 - 162
Bis(2-chloroethoxy)methane	40.0	39.5		ug/L		99	33 - 184
Bis(2-chloroethyl)ether	40.0	37.2		ug/L		93	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-724084/2-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	37.9		ug/L		95	8 - 158
Butyl benzyl phthalate	40.0	38.7		ug/L		97	1 - 152
Chrysene	40.0	38.2		ug/L		95	17 - 168
Di-n-butyl phthalate	40.0	42.8		ug/L		107	1 - 120
Di-n-octyl phthalate	40.0	37.6		ug/L		94	4 - 146
Dibenz(a,h)anthracene	40.0	42.0		ug/L		105	1 - 227
Diethyl phthalate	40.0	41.9		ug/L		105	1 - 120
Dimethyl phthalate	40.0	42.9		ug/L		107	1 - 120
Fluoranthene	40.0	42.7		ug/L		107	26 - 137
Fluorene	40.0	40.0		ug/L		100	59 - 121
Hexachlorobenzene	40.0	45.0		ug/L		113	1 - 152
Hexachlorocyclopentadiene	40.0	26.1		ug/L		65	5 - 120
Hexachloroethane	40.0	27.7		ug/L		69	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	41.7		ug/L		104	1 - 171
Isophorone	40.0	42.7		ug/L		107	21 - 196
N-Nitrosodi-n-propylamine	40.0	42.5		ug/L		106	1 - 230
N-Nitrosodiphenylamine	40.0	41.1		ug/L		103	54 - 125
Naphthalene	40.0	34.9		ug/L		87	21 - 133
Nitrobenzene	40.0	40.7		ug/L		102	35 - 180
Pentachlorophenol	80.0	82.5		ug/L		103	14 - 176
Phenanthrene	40.0	42.3		ug/L		106	54 - 120
Phenol	40.0	18.0		ug/L		45	5 - 120
Pyrene	40.0	41.2		ug/L		103	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*123*		*52 - 151*
2-Fluorobiphenyl	*98*		*44 - 120*
2-Fluorophenol (Surr)	*58*		*17 - 120*
Nitrobenzene-d5 (Surr)	*100*		*15 - 314*
p-Terphenyl-d14 (Surr)	*98*		*22 - 125*
Phenol-d5 (Surr)	*45*		*8 - 424*

Lab Sample ID: LCSD 480-724084/3-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 724084

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	33.1		ug/L		83	44 - 142	8	34
1,2-Dichlorobenzene	40.0	34.0		ug/L		85	32 - 129	14	38
1,3-Dichlorobenzene	40.0	30.9		ug/L		77	1 - 172	10	37
1,4-Dichlorobenzene	40.0	31.2		ug/L		78	20 - 124	8	40
2,2'-Oxybis(1-chloropropane)	40.0	45.0		ug/L		112	36 - 166	7	36
2,4,6-Trichlorophenol	40.0	40.1		ug/L		100	37 - 144	5	20
2,4-Dichlorophenol	40.0	42.1		ug/L		105	39 - 135	7	23
2,4-Dimethylphenol	40.0	43.1		ug/L		108	32 - 120	5	18
2,4-Dinitrophenol	80.0	87.1		ug/L		109	1 - 191	4	29
2,4-Dinitrotoluene	40.0	44.9		ug/L		112	39 - 139	9	20
2,6-Dinitrotoluene	40.0	43.8		ug/L		109	50 - 158	10	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-724084/3-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 724084

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			40.0	40.9		ug/L		102	60 - 120	7	30
2-Chlorophenol			40.0	37.7		ug/L		94	23 - 134	4	26
2-Nitrophenol			40.0	40.8		ug/L		102	29 - 182	8	28
3,3'-Dichlorobenzidine			40.0	45.7		ug/L		114	1 - 262	3	31
4,6-Dinitro-2-methylphenol			80.0	93.9		ug/L		117	1 - 181	11	30
4-Bromophenyl phenyl ether			40.0	46.4		ug/L		116	53 - 127	13	16
4-Chloro-3-methylphenol			40.0	42.7		ug/L		107	22 - 147	6	16
4-Chlorophenyl phenyl ether			40.0	43.3		ug/L		108	25 - 158	5	15
4-Nitrophenol			80.0	49.2		ug/L		61	1 - 132	9	24
Acenaphthene			40.0	43.3		ug/L		108	47 - 145	5	25
Acenaphthylene			40.0	44.7		ug/L		112	33 - 145	8	22
Anthracene			40.0	45.9		ug/L		115	27 - 133	8	15
Benzidine			40.0	ND	*1	ug/L		26	1 - 120	125	50
Benzo[a]anthracene			40.0	41.3		ug/L		103	33 - 143	6	15
Benzo[a]pyrene			40.0	44.1		ug/L		110	17 - 163	4	15
Benzo[b]fluoranthene			40.0	42.1		ug/L		105	24 - 159	4	17
Benzo[g,h,i]perylene			40.0	43.9		ug/L		110	1 - 219	4	19
Benzo[k]fluoranthene			40.0	46.7		ug/L		117	11 - 162	3	19
Bis(2-chloroethoxy)methane			40.0	41.8		ug/L		104	33 - 184	5	23
Bis(2-chloroethyl)ether			40.0	41.3		ug/L		103	12 - 158	10	33
Bis(2-ethylhexyl) phthalate			40.0	39.9		ug/L		100	8 - 158	5	15
Butyl benzyl phthalate			40.0	40.4		ug/L		101	1 - 152	4	15
Chrysene			40.0	40.1		ug/L		100	17 - 168	5	15
Di-n-butyl phthalate			40.0	46.5		ug/L		116	1 - 120	8	15
Di-n-octyl phthalate			40.0	39.0		ug/L		97	4 - 146	4	15
Dibenz(a,h)anthracene			40.0	43.3		ug/L		108	1 - 227	3	18
Diethyl phthalate			40.0	46.0		ug/L		115	1 - 120	9	15
Dimethyl phthalate			40.0	45.4		ug/L		114	1 - 120	6	15
Fluoranthene			40.0	46.4		ug/L		116	26 - 137	8	15
Fluorene			40.0	43.3		ug/L		108	59 - 121	8	18
Hexachlorobenzene			40.0	49.3		ug/L		123	1 - 152	9	15
Hexachlorocyclopentadiene			40.0	28.4		ug/L		71	5 - 120	9	50
Hexachloroethane			40.0	29.9		ug/L		75	40 - 120	8	43
Indeno[1,2,3-cd]pyrene			40.0	44.1		ug/L		110	1 - 171	5	17
Isophorone			40.0	45.7		ug/L		114	21 - 196	7	21
N-Nitrosodi-n-propylamine			40.0	45.0		ug/L		112	1 - 230	6	23
N-Nitrosodiphenylamine			40.0	44.8		ug/L		112	54 - 125	8	15
Naphthalene			40.0	37.9		ug/L		95	21 - 133	8	31
Nitrobenzene			40.0	43.5		ug/L		109	35 - 180	7	27
Pentachlorophenol			80.0	91.7		ug/L		115	14 - 176	11	21
Phenanthrene			40.0	46.4		ug/L		116	54 - 120	9	16
Phenol			40.0	19.2		ug/L		48	5 - 120	6	36
Pyrene			40.0	43.1		ug/L		108	52 - 120	4	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*136*		*52 - 151*
2-Fluorobiphenyl	*105*		*44 - 120*
2-Fluorophenol (Surr)	*59*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-724084/3-A
Matrix: Water
Analysis Batch: 724172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 724084

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*105*		*15 - 314*
p-Terphenyl-d14 (Surr)	*102*		*22 - 125*
Phenol-d5 (Surr)	*48*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-724622/1-A
Matrix: Water
Analysis Batch: 724839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		09/11/24 08:34	09/11/24 19:28	1

Lab Sample ID: LCS 480-724622/2-A
Matrix: Water
Analysis Batch: 724839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.492		mg/L		98	85 - 115

Lab Sample ID: 480-223050-6 MS
Matrix: Wastewater
Analysis Batch: 725077

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 724622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	ND		0.500	0.520		mg/L		104	70 - 130

Lab Sample ID: 480-223050-6 MSD
Matrix: Wastewater
Analysis Batch: 725077

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 724622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	ND		0.500	0.530		mg/L		106	70 - 130	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-724680/1-A
Matrix: Water
Analysis Batch: 724795

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 724680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000467	J	0.00020	0.000042	mg/L		09/11/24 09:39	09/11/24 14:18	1

Lab Sample ID: LCS 480-724680/2-A
Matrix: Water
Analysis Batch: 724795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 724680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00740		mg/L		111	85 - 115

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 480-223050-6 MS
Matrix: Wastewater
Analysis Batch: 724795

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 724680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.000042	J B	0.00669	0.00696		mg/L		104	70 - 130		

Lab Sample ID: 480-223050-6 MSD
Matrix: Wastewater
Analysis Batch: 724795

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 724680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.000042	J B	0.00669	0.00708		mg/L		106	70 - 130	2	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-724412/47
Matrix: Water
Analysis Batch: 724412

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			09/09/24 10:37	1

Lab Sample ID: HLCS 480-724412/22
Matrix: Water
Analysis Batch: 724412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.400		mg/L		100	90 - 110

Lab Sample ID: LCS 480-724412/48
Matrix: Water
Analysis Batch: 724412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.249		mg/L		100	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-724619/1
Matrix: Water
Analysis Batch: 724619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-223050-1

GC/MS VOA

Analysis Batch: 723969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-5	TRIP BLANK	Total/NA	WQ	624.1	
480-223050-6	001 LAB COMP	Total/NA	Wastewater	624.1	
MB 480-723969/8	Method Blank	Total/NA	Water	624.1	
LCS 480-723969/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 724084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-724084/1-A	Method Blank	Total/NA	Water	625	
LCS 480-724084/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-724084/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 724172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	625.1	724084
MB 480-724084/1-A	Method Blank	Total/NA	Water	625.1	724084
LCS 480-724084/2-A	Lab Control Sample	Total/NA	Water	625.1	724084
LCSD 480-724084/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	724084

Metals

Prep Batch: 724622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	200.7	
MB 480-724622/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-724622/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-223050-6 MS	001 LAB COMP	Total/NA	Wastewater	200.7	
480-223050-6 MSD	001 LAB COMP	Total/NA	Wastewater	200.7	

Prep Batch: 724680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 480-724680/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-724680/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-223050-6 MS	001 LAB COMP	Total/NA	Wastewater	245.1	
480-223050-6 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	

Analysis Batch: 724795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	245.1	724680
MB 480-724680/1-A	Method Blank	Total/NA	Water	245.1	724680
LCS 480-724680/2-A	Lab Control Sample	Total/NA	Water	245.1	724680
480-223050-6 MS	001 LAB COMP	Total/NA	Wastewater	245.1	724680
480-223050-6 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	724680

Analysis Batch: 724839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-724622/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	724622
LCS 480-724622/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	724622

QC Association Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223050-1
Project/Site: Iroquois Gas/Westwood Pharm.

Metals

Analysis Batch: 725077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	724622
480-223050-6 MS	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	724622
480-223050-6 MSD	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	724622

General Chemistry

Analysis Batch: 724412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-724412/47	Method Blank	Total/NA	Water	335.4	
HLCS 480-724412/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-724412/48	Lab Control Sample	Total/NA	Water	335.4	

Analysis Batch: 724619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223050-6	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-724619/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-223050-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-223050-5
Date Collected: 09/04/24 00:00
Matrix: WQ
Date Received: 09/04/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	723969	AXK	EET BUF	09/04/24 22:46

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223050-6
Date Collected: 09/04/24 12:11
Matrix: Wastewater
Date Received: 09/04/24 13:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	723969	AXK	EET BUF	09/04/24 23:11
Total/NA	Prep	625			724084	LSC	EET BUF	09/05/24 13:28
Total/NA	Analysis	625.1		1	724172	JMM	EET BUF	09/06/24 19:05
Total/NA	Prep	200.7			724622	EMO	EET BUF	09/11/24 08:34
Total/NA	Analysis	200.7 Rev 4.4		1	725077	NZG	EET BUF	09/13/24 13:04
Total/NA	Prep	245.1			724680	ESB	EET BUF	09/11/24 09:39
Total/NA	Analysis	245.1		1	724795	ESB	EET BUF	09/11/24 14:21
Total/NA	Analysis	335.4		1	724412	CLT	EET BUF	09/09/24 11:30
Total/NA	Analysis	SM 4500 H+ B		1	724619	KB	EET BUF	09/10/24 14:54

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223050-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-223050-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223050-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-223050-5	TRIP BLANK	WQ	09/04/24 00:00	09/04/24 13:20
480-223050-6	001 LAB COMP	Wastewater	09/04/24 12:11	09/04/24 13:20

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193795-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	D	N	B		
001-1	9/4/24	0611	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2		0811		Water			X	X	X	X	X		
001-3		1011					X	X	X	X	X		
001-4		1211					X	X	X	X	X		
Trip Blank		—						X					

480-223050 Chain of Custody

Short Hold Time

Preservation Codes: N - None; D - HNO3; B - NaOH; Other:

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Dan Mutz	9/4/24 / 1237	Arcadis	HS	9/4/24 1520	
				1320	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 10.9 #1 Ice

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-223050-1

Login Number: 223050
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	10.9 #1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	
Sampling Company provided.	True	Arcadis US
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Ms. Elizabeth Scheeler
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse, NY 13202
United States
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: December 30, 2024
Our Ref: 30240051
Subject: **Discharge Monitoring Report – Fourth Quarter 2024**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Scheeler,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc.(Arcadis) is pleased to submit this fourth quarter 2024 Discharge Monitoring Report (DMR) for the above-referenced site, which covers October 1, 2024 to December 31, 2024. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 73,180 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 9/23/2024 to 12/24/2024). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the fourth quarter of 2024.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of four grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the October, November, and December monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In October, November, and December 2024, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

On December 5, 2024, Arcadis replaced the flowmeter to comply with the requirement to have the treatment system flowmeter certified every year. The certification for the new flowmeter is provided in **Attachment E**.

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:

Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

CC. Traserra Adams, BSA
Richard Mator, BMS
John Alonzo, de maximis, inc.
Michael J. Hecker, Hodgson Russ LLP
Katie Hoelscher, NFG

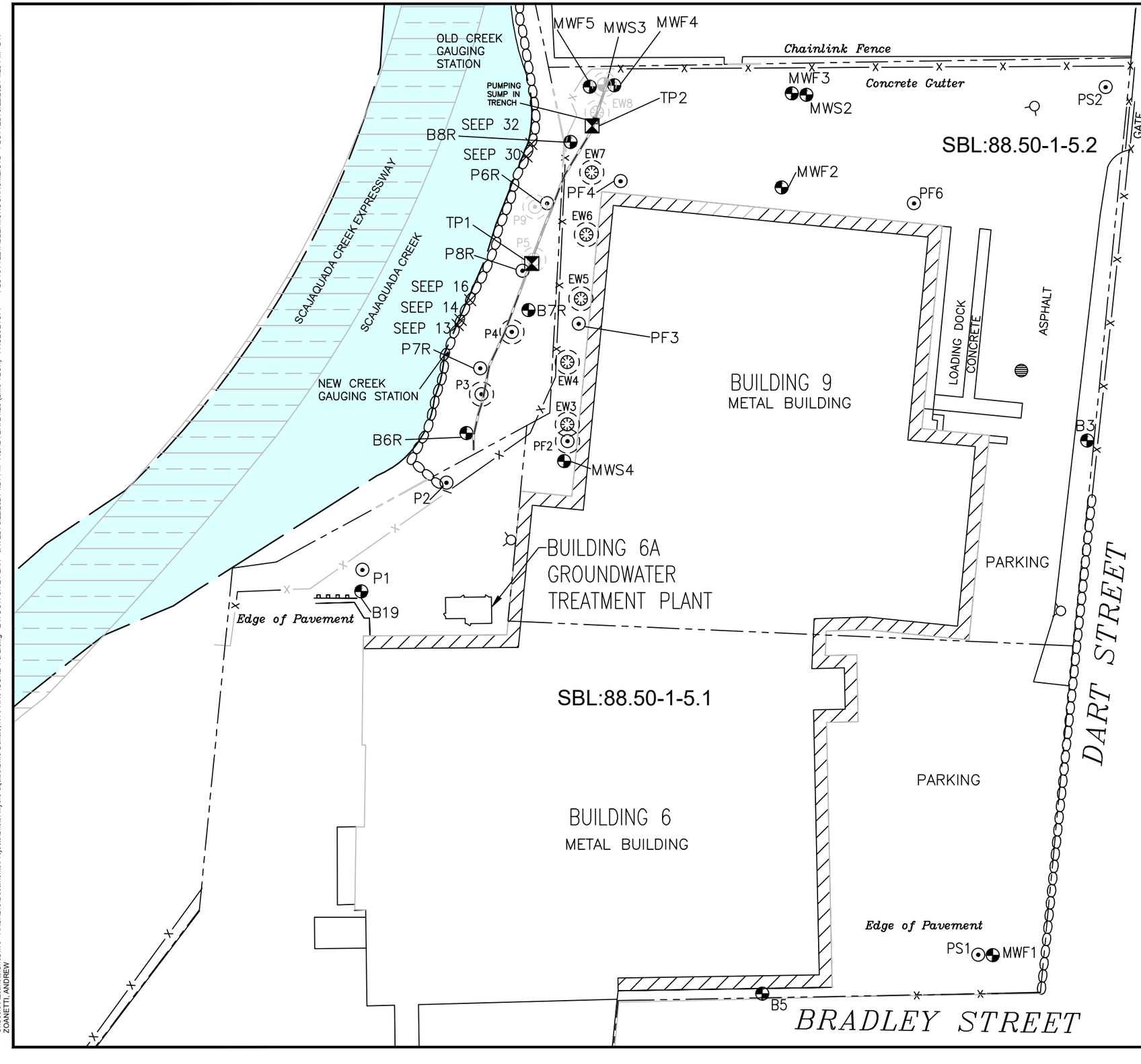
Attachments:

- A Site Plan and Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages
- E Flowmeter Certificate of Calibration

Attachment A

Process Flow Diagram

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PMTM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\FIGURE 1 & 2.dwg LAYOUT: SITE PLAN SAVED: 5/22/2024 1:21 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: MONOCHROME.CTB PLOTTED: 5/22/2024 1:25 PM BY:
ZOANETTI, ANDREW



LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

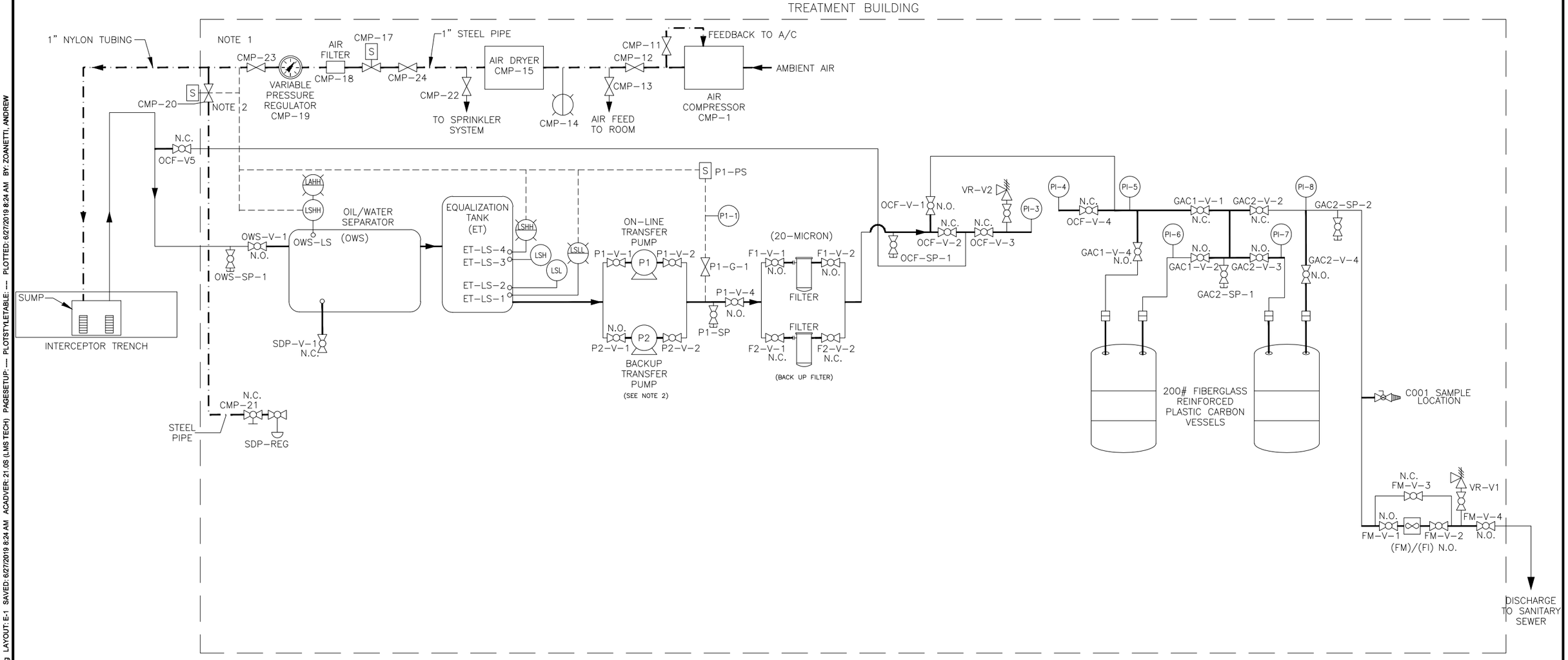
0 100' 200'

GRAPHIC SCALE

BRISTOL-MYERS SQUIBB COMPANY
IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE
CITY OF BUFFALO, ERIE COUNTY, NEW YORK

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

Facility/Project site name	Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
Location	120 Dart Street and 40 Bradley Street, City of Buffalo,
County/State	Erie County, New York
Date	October 2, 2024
Time	14:03
Operator	Jason Gutkowski
Select Inspection List	Monthly Inspections List

Monthly Sample Collection

Sample Location	001
Sample Type	Monthly, Discharge
Parameters	pH, Total Mercury, Total Cyanide, EPA Test Procedure 625
Sampling Equipment	Manual
Sample Volume	One 1L amber unpreserved glass bottle, and two 40mL clear vials, every two hours

Sample collection details (4 Items)

Sample collection details - 1. 05:58, Clear, 7.29, Light Rain, 56

Sample Time	05:58
Sample Observations	Clear
Field pH Measurement	7.29
Weather	Light Rain
Air Temperature (°F)	56
Comments	None

Sample collection details - 2. 07:58, Clear, 7.38, Cloudy, 56

Sample Time	07:58
Sample Observations	Clear
Field pH Measurement	7.38
Weather	Cloudy
Air Temperature (°F)	56
Comments	None

Sample collection details - 3. 09:58, Clear, 7.37, Partly Sunny, 57

Sample Time	09:58
Sample Observations	Clear
Field pH Measurement	7.37
Weather	Partly Sunny
Air Temperature (°F)	57
Comments	None

Sample collection details - 4. 11:58, Clear, 7.46, Partly Sunny, 62

Sample Time	11:58
Sample Observations	Clear
Field pH Measurement	7.46
Weather	Partly Sunny
Air Temperature (°F)	62
Comments	None

Facility/Project site name	Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
Location	120 Dart Street and 40 Bradley Street, City of Buffalo,
County/State	Erie County, New York
Date	November 5, 2024
Time	10:52
Operator	Jason Gutkowski
Select Inspection List	Monthly Inspections List

Monthly Sample Collection

Sample Location	001
Sample Type	Monthly, Discharge
Parameters	pH, Total Mercury, Total Cyanide, EPA Test Procedure 625
Sampling Equipment	Manual
Sample Volume	One 1L amber unpreserved glass bottle, and two 40mL clear vials, every two hours

Sample collection details (4 Items)

Sample collection details - 1. 06:10, Clear, 7.43, Partly Cloudy, 60

Sample Time	06:10
Sample Observations	Clear
Field pH Measurement	7.43
Weather	Partly Cloudy
Air Temperature (°F)	60
Comments	

Sample collection details - 2. 08:10, Clear, 7.41, Partly Cloudy, 62

Sample Time	08:10
Sample Observations	Clear
Field pH Measurement	7.41
Weather	Partly Cloudy
Air Temperature (°F)	62
Comments	

Sample collection details - 3. 10:10, Clear, 7.52, Partly Cloudy, 67

Sample Time	10:10
Sample Observations	Clear
Field pH Measurement	7.52
Weather	Partly Cloudy
Air Temperature (°F)	67
Comments	

Sample collection details - 4. 12:10, Clear, 7.39, Partly Cloudy, 70

Sample Time	12:10
Sample Observations	Clear
Field pH Measurement	7.39
Weather	Partly Cloudy
Air Temperature (°F)	70
Comments	

Facility/Project site name	Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
Location	120 Dart Street and 40 Bradley Street, City of Buffalo,
County/State	Erie County, New York
Date	December 3, 2024
Time	07:34
Operator	Jason Gutkowski
Select Inspection List	Monthly Inspections List

Monthly Sample Collection

Sample Location	001
Sample Type	Monthly, Discharge
Parameters	pH, Total Mercury, Total Cyanide, EPA Test Procedure 625
Sampling Equipment	Manual
Sample Volume	One 1L amber unpreserved glass bottle, and two 40mL clear vials, every two hours

Sample collection details (4 Items)

Sample collection details - 1. 04:42, Clear, 7.34, Partly Cloudy, 25

Sample Time	04:42
Sample Observations	Clear
Field pH Measurement	7.34
Weather	Partly Cloudy
Air Temperature (°F)	25
Comments	

Sample collection details - 2. 06:42, Clear, 7.41, Cloudy, 27

Sample Time	06:42
Sample Observations	Clear
Field pH Measurement	7.41
Weather	Cloudy
Air Temperature (°F)	27
Comments	

Sample collection details - 3. 08:42, Clear, 7.25, Sunny, 28

Sample Time	08:42
Sample Observations	Clear
Field pH Measurement	7.25
Weather	Sunny
Air Temperature (°F)	28
Comments	

Sample collection details - 4. 10:42, Clear, 7.39, Partly Sunny, 31

Sample Time	10:42
Sample Observations	Clear
Field pH Measurement	7.39
Weather	Partly Sunny
Air Temperature (°F)	31
Comments	

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY
BSA Discharge Permit No. 18-07-BU174

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	9/23/2024	10/2/2024	10/9/2024	10/17/2024	10/23/2024	10/30/2024	11/5/2024
Totalizer	gal	NA	1,738,630	1,745,350	1,750,887	1,757,149	1,761,955	1,766,773	1,772,279
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	NS	ND
Total Zinc	lbs	3.0**	NS	ND L	NS	NS	NS	NS	ND L
Total Cyanide	lbs	7.93**	NS	5.47E-04	NS	NS	NS	NS	9.17E-04
Total VOCs	mg/L	NA	NS	1.20E-03 J	NS	NS	NS	NS	3.60E-03 J *+
Total SVOCs	mg/L	NA	NS	ND	NS	NS	NS	NS	8.10E-04 J B *1
pH	SU	5.0-12.0	NS	7.3	NS	NS	NS	NS	7.2
Total Daily Flow	gal	14,400	-	747	791	783	801	688	918

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	11/12/2024	11/19/2024	11/26/2024	12/3/2024	12/10/2024	12/17/2024	12/24/2024
Totalizer	gal	NA	1,777,689	1,783,247	1,788,907	1,794,921	1,800,514	1,806,259	1,811,810
Total Mercury	lbs	0.00001**	NS	NS	NS	ND	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	NS	ND	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	NS	8.58E-04	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	NS	7.9	NS	NS	NS
Total Daily Flow	gal	14,400	773	794	809	859	799	821	793

Notes:

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B = Compound was found in the blank and the sample.
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
*1 = LCS/LCSD RPD exceeds control limits.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.
L = A negative instrument reading had an absolute value greater than the reporting limit.
NA = Not Applicable
ND = Not Detected at the reporting limit
NS = Not Sampled
gal = Gallons
lbs = Pounds
mg/L = Milligrams per liter
SU = Standard Units
** = Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 10/9/2024 4:31:28 PM

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.- Monthly
Monthly Testing

JOB NUMBER

480-223901-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

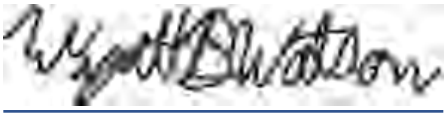
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
10/9/2024 4:31:28 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 21
Lab Chronicle 23
Certification Summary 24
Method Summary 25
Sample Summary 26
Chain of Custody 27
Receipt Checklists 28

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-223901-1 Eurofins Buffalo

Job Narrative
480-223901-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/2/2024 2:23 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

GC/MS VOA
Method 624.1: The following Volatile sample was composited by the laboratory on 10/03/2024 as requested by the client: 001 LAB COMP (480-223901-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 200.7 Rev 4.4: The absolute response for total ZInc was greater than the method reporting limit (RL) in the following sample: 001 LAB COMP (480-223901-6).
The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-223901-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-727123.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-223901-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223901-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.2	J	5.0	0.81	ug/L	1		624.1	Total/NA
Cyanide, Total	0.088	F1	0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-223901-5

Date Collected: 10/02/24 00:00
Matrix: WQ
Date Received: 10/02/24 14:23

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/03/24 22:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/03/24 22:35	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/03/24 22:35	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/03/24 22:35	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/03/24 22:35	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/03/24 22:35	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/03/24 22:35	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/03/24 22:35	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/03/24 22:35	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/03/24 22:35	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/03/24 22:35	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/03/24 22:35	1
Acrolein	ND		100	17	ug/L			10/03/24 22:35	1
Acrylonitrile	ND		50	1.9	ug/L			10/03/24 22:35	1
Benzene	ND		5.0	0.60	ug/L			10/03/24 22:35	1
Bromoform	ND		5.0	0.47	ug/L			10/03/24 22:35	1
Bromomethane	ND		5.0	1.2	ug/L			10/03/24 22:35	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/03/24 22:35	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/03/24 22:35	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/03/24 22:35	1
Chloroethane	ND		5.0	0.87	ug/L			10/03/24 22:35	1
Chloroform	ND		5.0	0.54	ug/L			10/03/24 22:35	1
Chloromethane	ND		5.0	0.64	ug/L			10/03/24 22:35	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/03/24 22:35	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/03/24 22:35	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/03/24 22:35	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/03/24 22:35	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/03/24 22:35	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/03/24 22:35	1
Toluene	ND		5.0	0.45	ug/L			10/03/24 22:35	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/03/24 22:35	1
Trichloroethene	ND		5.0	0.60	ug/L			10/03/24 22:35	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/03/24 22:35	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/03/24 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*10/03/24 22:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*10/03/24 22:35*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*10/03/24 22:35*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*10/03/24 22:35*	*1*

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223901-6

Date Collected: 10/02/24 00:00
Matrix: Wastewater
Date Received: 10/02/24 14:23

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/03/24 22:59	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/03/24 22:59	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/03/24 22:59	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/03/24 22:59	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/03/24 22:59	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/03/24 22:59	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/03/24 22:59	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/03/24 22:59	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/03/24 22:59	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/03/24 22:59	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/03/24 22:59	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/03/24 22:59	1
Acrolein	ND		100	17	ug/L			10/03/24 22:59	1
Acrylonitrile	ND		50	1.9	ug/L			10/03/24 22:59	1
Benzene	ND		5.0	0.60	ug/L			10/03/24 22:59	1
Bromoform	ND		5.0	0.47	ug/L			10/03/24 22:59	1
Bromomethane	ND		5.0	1.2	ug/L			10/03/24 22:59	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/03/24 22:59	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/03/24 22:59	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/03/24 22:59	1
Chloroethane	ND		5.0	0.87	ug/L			10/03/24 22:59	1
Chloroform	ND		5.0	0.54	ug/L			10/03/24 22:59	1
Chloromethane	ND		5.0	0.64	ug/L			10/03/24 22:59	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/03/24 22:59	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/03/24 22:59	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/03/24 22:59	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/03/24 22:59	1
Methylene Chloride	**1.2**	**J**	5.0	0.81	ug/L			10/03/24 22:59	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/03/24 22:59	1
Toluene	ND		5.0	0.45	ug/L			10/03/24 22:59	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/03/24 22:59	1
Trichloroethene	ND		5.0	0.60	ug/L			10/03/24 22:59	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/03/24 22:59	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/03/24 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*		*10/03/24 22:59*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*10/03/24 22:59*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*10/03/24 22:59*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*10/03/24 22:59*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		10/04/24 13:02	10/07/24 15:07	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		10/04/24 13:02	10/07/24 15:07	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		10/04/24 13:02	10/07/24 15:07	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		10/04/24 13:02	10/07/24 15:07	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		10/04/24 13:02	10/07/24 15:07	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		10/04/24 13:02	10/07/24 15:07	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		10/04/24 13:02	10/07/24 15:07	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223901-6
Date Collected: 10/02/24 00:00
Matrix: Wastewater
Date Received: 10/02/24 14:23

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		10/04/24 13:02	10/07/24 15:07	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		10/04/24 13:02	10/07/24 15:07	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		10/04/24 13:02	10/07/24 15:07	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		10/04/24 13:02	10/07/24 15:07	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		10/04/24 13:02	10/07/24 15:07	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		10/04/24 13:02	10/07/24 15:07	1
2-Chlorophenol	ND		4.8	0.16	ug/L		10/04/24 13:02	10/07/24 15:07	1
2-Nitrophenol	ND		4.8	0.17	ug/L		10/04/24 13:02	10/07/24 15:07	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		10/04/24 13:02	10/07/24 15:07	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		10/04/24 13:02	10/07/24 15:07	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		10/04/24 13:02	10/07/24 15:07	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		10/04/24 13:02	10/07/24 15:07	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		10/04/24 13:02	10/07/24 15:07	1
4-Nitrophenol	ND		14	0.46	ug/L		10/04/24 13:02	10/07/24 15:07	1
Acenaphthene	ND		4.8	0.19	ug/L		10/04/24 13:02	10/07/24 15:07	1
Acenaphthylene	ND		4.8	0.21	ug/L		10/04/24 13:02	10/07/24 15:07	1
Anthracene	ND		4.8	0.33	ug/L		10/04/24 13:02	10/07/24 15:07	1
Benzidine	ND		76	13	ug/L		10/04/24 13:02	10/07/24 15:07	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		10/04/24 13:02	10/07/24 15:07	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		10/04/24 13:02	10/07/24 15:07	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		10/04/24 13:02	10/07/24 15:07	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		10/04/24 13:02	10/07/24 15:07	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		10/04/24 13:02	10/07/24 15:07	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		10/04/24 13:02	10/07/24 15:07	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		10/04/24 13:02	10/07/24 15:07	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		10/04/24 13:02	10/07/24 15:07	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		10/04/24 13:02	10/07/24 15:07	1
Chrysene	ND		4.8	0.24	ug/L		10/04/24 13:02	10/07/24 15:07	1
Decane	ND		9.5	0.38	ug/L		10/04/24 13:02	10/07/24 15:07	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		10/04/24 13:02	10/07/24 15:07	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		10/04/24 13:02	10/07/24 15:07	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		10/04/24 13:02	10/07/24 15:07	1
Diethyl phthalate	ND		4.8	0.24	ug/L		10/04/24 13:02	10/07/24 15:07	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		10/04/24 13:02	10/07/24 15:07	1
Fluoranthene	ND		4.8	0.38	ug/L		10/04/24 13:02	10/07/24 15:07	1
Fluorene	ND		4.8	0.24	ug/L		10/04/24 13:02	10/07/24 15:07	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		10/04/24 13:02	10/07/24 15:07	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		10/04/24 13:02	10/07/24 15:07	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		10/04/24 13:02	10/07/24 15:07	1
Hexachloroethane	ND		4.8	0.14	ug/L		10/04/24 13:02	10/07/24 15:07	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		10/04/24 13:02	10/07/24 15:07	1
Isophorone	ND		4.8	0.18	ug/L		10/04/24 13:02	10/07/24 15:07	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		10/04/24 13:02	10/07/24 15:07	1
N-Nitrosodimethylamine	ND		9.5	0.14	ug/L		10/04/24 13:02	10/07/24 15:07	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		10/04/24 13:02	10/07/24 15:07	1
Naphthalene	ND		4.8	0.20	ug/L		10/04/24 13:02	10/07/24 15:07	1
Nitrobenzene	ND		4.8	0.19	ug/L		10/04/24 13:02	10/07/24 15:07	1
Pentachlorophenol	ND		9.5	0.75	ug/L		10/04/24 13:02	10/07/24 15:07	1
Phenanthrene	ND		4.8	0.29	ug/L		10/04/24 13:02	10/07/24 15:07	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223901-6

Date Collected: 10/02/24 00:00
Matrix: Wastewater
Date Received: 10/02/24 14:23

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		10/04/24 13:02	10/07/24 15:07	1
Pyrene	ND		4.8	0.33	ug/L		10/04/24 13:02	10/07/24 15:07	1
n-Octadecane	ND		9.5	0.29	ug/L		10/04/24 13:02	10/07/24 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*52 - 151*	*10/04/24 13:02*	*10/07/24 15:07*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*10/04/24 13:02*	*10/07/24 15:07*	*1*
2-Fluorophenol (Surr)	*53*		*17 - 120*	*10/04/24 13:02*	*10/07/24 15:07*	*1*
Nitrobenzene-d5 (Surr)	*87*		*15 - 314*	*10/04/24 13:02*	*10/07/24 15:07*	*1*
p-Terphenyl-d14 (Surr)	*87*		*22 - 125*	*10/04/24 13:02*	*10/07/24 15:07*	*1*
Phenol-d5 (Surr)	*36*		*8 - 424*	*10/04/24 13:02*	*10/07/24 15:07*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND	L	0.010	0.0068	mg/L		10/03/24 08:27	10/03/24 14:25	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/07/24 11:41	10/07/24 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.088**	**F1**	0.010	0.0041	mg/L			10/03/24 10:16	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			10/09/24 12:31	1
Temperature (SM 4500 H+ B)	**16.6**	**HF**	0.001	0.001	Degrees C			10/09/24 12:31	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-223901-6	001 LAB COMP	100	97	100	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-727049/6	Lab Control Sample	100	99	100	103
MB 480-727049/8	Method Blank	99	98	100	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-223901-5	TRIP BLANK	101	100	100	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-223901-6	001 LAB COMP	96	90	53	87	87	36

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)		
LCS 480-727123/2-A	Lab Control Sample	118	93	58	92	101	43		
LCSD 480-727123/3-A	Lab Control Sample Dup	120	92	58	92	103	42		
MB 480-727123/1-A	Method Blank	96	86	52	82	100	36		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-727049/8
Matrix: Water
Analysis Batch: 727049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/03/24 19:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/03/24 19:21	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/03/24 19:21	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/03/24 19:21	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/03/24 19:21	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/03/24 19:21	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/03/24 19:21	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/03/24 19:21	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/03/24 19:21	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/03/24 19:21	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/03/24 19:21	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/03/24 19:21	1
Acrolein	ND		100	17	ug/L			10/03/24 19:21	1
Acrylonitrile	ND		50	1.9	ug/L			10/03/24 19:21	1
Benzene	ND		5.0	0.60	ug/L			10/03/24 19:21	1
Bromoform	ND		5.0	0.47	ug/L			10/03/24 19:21	1
Bromomethane	ND		5.0	1.2	ug/L			10/03/24 19:21	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/03/24 19:21	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/03/24 19:21	1
Dibromochloromethane	ND		5.0	0.41	ug/L			10/03/24 19:21	1
Chloroethane	ND		5.0	0.87	ug/L			10/03/24 19:21	1
Chloroform	ND		5.0	0.54	ug/L			10/03/24 19:21	1
Chloromethane	ND		5.0	0.64	ug/L			10/03/24 19:21	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/03/24 19:21	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/03/24 19:21	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			10/03/24 19:21	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/03/24 19:21	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/03/24 19:21	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/03/24 19:21	1
Toluene	ND		5.0	0.45	ug/L			10/03/24 19:21	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/03/24 19:21	1
Trichloroethene	ND		5.0	0.60	ug/L			10/03/24 19:21	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			10/03/24 19:21	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/03/24 19:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*10/03/24 19:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*10/03/24 19:21*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*10/03/24 19:21*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*10/03/24 19:21*	*1*

Lab Sample ID: LCS 480-727049/6
Matrix: Water
Analysis Batch: 727049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	22.9		ug/L		115	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	20.7		ug/L		103	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-727049/6
Matrix: Water
Analysis Batch: 727049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	52 - 150
1,1-Dichloroethane	20.0	21.0		ug/L		105	59 - 155
1,1-Dichloroethene	20.0	21.4		ug/L		107	1 - 234
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	18 - 190
1,2-Dichloroethane	20.0	20.5		ug/L		103	49 - 155
1,2-Dichloropropane	20.0	20.5		ug/L		102	1 - 210
1,3-Dichlorobenzene	20.0	20.7		ug/L		103	59 - 156
1,4-Dichlorobenzene	20.0	20.7		ug/L		103	18 - 190
2-Chloroethyl vinyl ether	20.0	19.7	J	ug/L		99	1 - 305
Benzene	20.0	20.9		ug/L		104	37 - 151
Bromoform	20.0	24.2		ug/L		121	45 - 169
Bromomethane	20.0	23.3		ug/L		116	1 - 242
Carbon tetrachloride	20.0	23.4		ug/L		117	70 - 140
Chlorobenzene	20.0	20.5		ug/L		102	37 - 160
Dibromochloromethane	20.0	22.8		ug/L		114	53 - 149
Chloroethane	20.0	21.9		ug/L		110	14 - 230
Chloroform	20.0	20.8		ug/L		104	51 - 138
Chloromethane	20.0	22.9		ug/L		115	1 - 273
cis-1,3-Dichloropropene	20.0	21.1		ug/L		106	1 - 227
Bromodichloromethane	20.0	21.5		ug/L		107	35 - 155
Ethylbenzene	20.0	20.7		ug/L		103	37 - 162
Methylene Chloride	20.0	21.7		ug/L		108	1 - 221
Tetrachloroethene	20.0	20.9		ug/L		105	64 - 148
Toluene	20.0	20.7		ug/L		103	47 - 150
trans-1,3-Dichloropropene	20.0	21.3		ug/L		106	17 - 183
Trichloroethene	20.0	20.9		ug/L		104	71 - 157
Trichlorofluoromethane	20.0	25.0		ug/L		125	17 - 181
Vinyl chloride	20.0	24.1		ug/L		121	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-727123/1-A
Matrix: Water
Analysis Batch: 727293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 727123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		10/04/24 13:02	10/07/24 13:02	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		10/04/24 13:02	10/07/24 13:02	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		10/04/24 13:02	10/07/24 13:02	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		10/04/24 13:02	10/07/24 13:02	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		10/04/24 13:02	10/07/24 13:02	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		10/04/24 13:02	10/07/24 13:02	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		10/04/24 13:02	10/07/24 13:02	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-727123/1-A
Matrix: Water
Analysis Batch: 727293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 727123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		10/04/24 13:02	10/07/24 13:02	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		10/04/24 13:02	10/07/24 13:02	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		10/04/24 13:02	10/07/24 13:02	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		10/04/24 13:02	10/07/24 13:02	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		10/04/24 13:02	10/07/24 13:02	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		10/04/24 13:02	10/07/24 13:02	1
2-Chlorophenol	ND		5.0	0.17	ug/L		10/04/24 13:02	10/07/24 13:02	1
2-Nitrophenol	ND		5.0	0.18	ug/L		10/04/24 13:02	10/07/24 13:02	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		10/04/24 13:02	10/07/24 13:02	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		10/04/24 13:02	10/07/24 13:02	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		10/04/24 13:02	10/07/24 13:02	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		10/04/24 13:02	10/07/24 13:02	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		10/04/24 13:02	10/07/24 13:02	1
4-Nitrophenol	ND		15	0.49	ug/L		10/04/24 13:02	10/07/24 13:02	1
Acenaphthene	ND		5.0	0.20	ug/L		10/04/24 13:02	10/07/24 13:02	1
Acenaphthylene	ND		5.0	0.22	ug/L		10/04/24 13:02	10/07/24 13:02	1
Anthracene	ND		5.0	0.35	ug/L		10/04/24 13:02	10/07/24 13:02	1
Benzidine	ND		80	14	ug/L		10/04/24 13:02	10/07/24 13:02	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		10/04/24 13:02	10/07/24 13:02	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		10/04/24 13:02	10/07/24 13:02	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		10/04/24 13:02	10/07/24 13:02	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		10/04/24 13:02	10/07/24 13:02	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		10/04/24 13:02	10/07/24 13:02	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		10/04/24 13:02	10/07/24 13:02	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		10/04/24 13:02	10/07/24 13:02	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		10/04/24 13:02	10/07/24 13:02	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		10/04/24 13:02	10/07/24 13:02	1
Chrysene	ND		5.0	0.25	ug/L		10/04/24 13:02	10/07/24 13:02	1
Decane	ND		10	0.40	ug/L		10/04/24 13:02	10/07/24 13:02	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		10/04/24 13:02	10/07/24 13:02	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		10/04/24 13:02	10/07/24 13:02	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		10/04/24 13:02	10/07/24 13:02	1
Diethyl phthalate	ND		5.0	0.25	ug/L		10/04/24 13:02	10/07/24 13:02	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		10/04/24 13:02	10/07/24 13:02	1
Fluoranthene	ND		5.0	0.40	ug/L		10/04/24 13:02	10/07/24 13:02	1
Fluorene	ND		5.0	0.25	ug/L		10/04/24 13:02	10/07/24 13:02	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		10/04/24 13:02	10/07/24 13:02	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		10/04/24 13:02	10/07/24 13:02	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		10/04/24 13:02	10/07/24 13:02	1
Hexachloroethane	ND		5.0	0.15	ug/L		10/04/24 13:02	10/07/24 13:02	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		10/04/24 13:02	10/07/24 13:02	1
Isophorone	ND		5.0	0.19	ug/L		10/04/24 13:02	10/07/24 13:02	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		10/04/24 13:02	10/07/24 13:02	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		10/04/24 13:02	10/07/24 13:02	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		10/04/24 13:02	10/07/24 13:02	1
Naphthalene	ND		5.0	0.22	ug/L		10/04/24 13:02	10/07/24 13:02	1
Nitrobenzene	ND		5.0	0.20	ug/L		10/04/24 13:02	10/07/24 13:02	1
Pentachlorophenol	ND		10	0.79	ug/L		10/04/24 13:02	10/07/24 13:02	1
Phenanthrene	ND		5.0	0.30	ug/L		10/04/24 13:02	10/07/24 13:02	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-727123/1-A
Matrix: Water
Analysis Batch: 727293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 727123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		10/04/24 13:02	10/07/24 13:02	1
Pyrene	ND		5.0	0.35	ug/L		10/04/24 13:02	10/07/24 13:02	1
n-Octadecane	ND		10	0.30	ug/L		10/04/24 13:02	10/07/24 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*52 - 151*	*10/04/24 13:02*	*10/07/24 13:02*	*1*
2-Fluorobiphenyl	*86*		*44 - 120*	*10/04/24 13:02*	*10/07/24 13:02*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*10/04/24 13:02*	*10/07/24 13:02*	*1*
Nitrobenzene-d5 (Surr)	*82*		*15 - 314*	*10/04/24 13:02*	*10/07/24 13:02*	*1*
p-Terphenyl-d14 (Surr)	*100*		*22 - 125*	*10/04/24 13:02*	*10/07/24 13:02*	*1*
Phenol-d5 (Surr)	*36*		*8 - 424*	*10/04/24 13:02*	*10/07/24 13:02*	*1*

Lab Sample ID: LCS 480-727123/2-A
Matrix: Water
Analysis Batch: 727293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 727123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	31.2		ug/L		78	44 - 142
1,2-Dichlorobenzene	40.0	30.0		ug/L		75	32 - 129
1,3-Dichlorobenzene	40.0	28.1		ug/L		70	1 - 172
1,4-Dichlorobenzene	40.0	28.3		ug/L		71	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	33.1		ug/L		83	36 - 166
2,4,6-Trichlorophenol	40.0	41.6		ug/L		104	37 - 144
2,4-Dichlorophenol	40.0	40.0		ug/L		100	39 - 135
2,4-Dimethylphenol	40.0	39.3		ug/L		98	32 - 120
2,4-Dinitrophenol	80.0	111		ug/L		139	1 - 191
2,4-Dinitrotoluene	40.0	50.2		ug/L		126	39 - 139
2,6-Dinitrotoluene	40.0	43.3		ug/L		108	50 - 158
2-Chloronaphthalene	40.0	36.4		ug/L		91	60 - 120
2-Chlorophenol	40.0	36.5		ug/L		91	23 - 134
2-Nitrophenol	40.0	43.3		ug/L		108	29 - 182
3,3'-Dichlorobenzidine	40.0	48.5		ug/L		121	1 - 262
4,6-Dinitro-2-methylphenol	80.0	109		ug/L		136	1 - 181
4-Bromophenyl phenyl ether	40.0	41.8		ug/L		105	53 - 127
4-Chloro-3-methylphenol	40.0	39.9		ug/L		100	22 - 147
4-Chlorophenyl phenyl ether	40.0	39.4		ug/L		98	25 - 158
4-Nitrophenol	80.0	44.7		ug/L		56	1 - 132
Acenaphthene	40.0	37.4		ug/L		93	47 - 145
Acenaphthylene	40.0	39.5		ug/L		99	33 - 145
Anthracene	40.0	41.1		ug/L		103	27 - 133
Benzidine	40.0	ND		ug/L		32	1 - 120
Benzo[a]anthracene	40.0	41.5		ug/L		104	33 - 143
Benzo[a]pyrene	40.0	40.8		ug/L		102	17 - 163
Benzo[b]fluoranthene	40.0	41.3		ug/L		103	24 - 159
Benzo[g,h,i]perylene	40.0	42.9		ug/L		107	1 - 219
Benzo[k]fluoranthene	40.0	41.1		ug/L		103	11 - 162
Bis(2-chloroethoxy)methane	40.0	39.3		ug/L		98	33 - 184
Bis(2-chloroethyl)ether	40.0	36.6		ug/L		91	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-727123/2-A
Matrix: Water
Analysis Batch: 727293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 727123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	43.0		ug/L		107	8 - 158
Butyl benzyl phthalate	40.0	42.0		ug/L		105	1 - 152
Chrysene	40.0	42.0		ug/L		105	17 - 168
Di-n-butyl phthalate	40.0	42.4		ug/L		106	1 - 120
Di-n-octyl phthalate	40.0	44.9		ug/L		112	4 - 146
Dibenz(a,h)anthracene	40.0	41.1		ug/L		103	1 - 227
Diethyl phthalate	40.0	42.2		ug/L		105	1 - 120
Dimethyl phthalate	40.0	41.5		ug/L		104	1 - 120
Fluoranthene	40.0	41.5		ug/L		104	26 - 137
Fluorene	40.0	38.8		ug/L		97	59 - 121
Hexachlorobenzene	40.0	42.0		ug/L		105	1 - 152
Hexachlorocyclopentadiene	40.0	28.3		ug/L		71	5 - 120
Hexachloroethane	40.0	26.4		ug/L		66	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	42.1		ug/L		105	1 - 171
Isophorone	40.0	40.1		ug/L		100	21 - 196
N-Nitrosodi-n-propylamine	40.0	37.7		ug/L		94	1 - 230
N-Nitrosodiphenylamine	40.0	40.3		ug/L		101	54 - 125
Naphthalene	40.0	34.4		ug/L		86	21 - 133
Nitrobenzene	40.0	35.5		ug/L		89	35 - 180
Pentachlorophenol	80.0	86.1		ug/L		108	14 - 176
Phenanthrene	40.0	39.7		ug/L		99	54 - 120
Phenol	40.0	19.1		ug/L		48	5 - 120
Pyrene	40.0	40.2		ug/L		100	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*118*		*52 - 151*
2-Fluorobiphenyl	*93*		*44 - 120*
2-Fluorophenol (Surr)	*58*		*17 - 120*
Nitrobenzene-d5 (Surr)	*92*		*15 - 314*
p-Terphenyl-d14 (Surr)	*101*		*22 - 125*
Phenol-d5 (Surr)	*43*		*8 - 424*

Lab Sample ID: LCSD 480-727123/3-A
Matrix: Water
Analysis Batch: 727293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 727123

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	31.0		ug/L		78	44 - 142	1	34
1,2-Dichlorobenzene	40.0	29.9		ug/L		75	32 - 129	0	38
1,3-Dichlorobenzene	40.0	28.3		ug/L		71	1 - 172	1	37
1,4-Dichlorobenzene	40.0	28.0		ug/L		70	20 - 124	1	40
2,2'-Oxybis(1-chloropropane)	40.0	32.9		ug/L		82	36 - 166	1	36
2,4,6-Trichlorophenol	40.0	40.6		ug/L		101	37 - 144	3	20
2,4-Dichlorophenol	40.0	39.4		ug/L		98	39 - 135	1	23
2,4-Dimethylphenol	40.0	40.1		ug/L		100	32 - 120	2	18
2,4-Dinitrophenol	80.0	111		ug/L		139	1 - 191	0	29
2,4-Dinitrotoluene	40.0	49.9		ug/L		125	39 - 139	1	20
2,6-Dinitrotoluene	40.0	43.9		ug/L		110	50 - 158	1	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-727123/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 727293
Prep Batch: 727123

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			40.0	36.1		ug/L		90	60 - 120	1	30
2-Chlorophenol			40.0	36.4		ug/L		91	23 - 134	0	26
2-Nitrophenol			40.0	43.7		ug/L		109	29 - 182	1	28
3,3'-Dichlorobenzidine			40.0	49.0		ug/L		123	1 - 262	1	31
4,6-Dinitro-2-methylphenol			80.0	111		ug/L		139	1 - 181	2	30
4-Bromophenyl phenyl ether			40.0	41.2		ug/L		103	53 - 127	2	16
4-Chloro-3-methylphenol			40.0	40.1		ug/L		100	22 - 147	0	16
4-Chlorophenyl phenyl ether			40.0	39.9		ug/L		100	25 - 158	1	15
4-Nitrophenol			80.0	45.2		ug/L		56	1 - 132	1	24
Acenaphthene			40.0	37.4		ug/L		93	47 - 145	0	25
Acenaphthylene			40.0	39.0		ug/L		98	33 - 145	1	22
Anthracene			40.0	42.0		ug/L		105	27 - 133	2	15
Benzidine			40.0	20.4	J	ug/L		51	1 - 120	45	50
Benzo[a]anthracene			40.0	42.8		ug/L		107	33 - 143	3	15
Benzo[a]pyrene			40.0	40.8		ug/L		102	17 - 163	0	15
Benzo[b]fluoranthene			40.0	41.0		ug/L		103	24 - 159	1	17
Benzo[g,h,i]perylene			40.0	42.2		ug/L		106	1 - 219	2	19
Benzo[k]fluoranthene			40.0	39.9		ug/L		100	11 - 162	3	19
Bis(2-chloroethoxy)methane			40.0	39.0		ug/L		97	33 - 184	1	23
Bis(2-chloroethyl)ether			40.0	35.9		ug/L		90	12 - 158	2	33
Bis(2-ethylhexyl) phthalate			40.0	43.2		ug/L		108	8 - 158	1	15
Butyl benzyl phthalate			40.0	42.6		ug/L		106	1 - 152	2	15
Chrysene			40.0	42.5		ug/L		106	17 - 168	1	15
Di-n-butyl phthalate			40.0	42.8		ug/L		107	1 - 120	1	15
Di-n-octyl phthalate			40.0	45.0		ug/L		113	4 - 146	0	15
Dibenz(a,h)anthracene			40.0	41.1		ug/L		103	1 - 227	0	18
Diethyl phthalate			40.0	42.8		ug/L		107	1 - 120	1	15
Dimethyl phthalate			40.0	41.5		ug/L		104	1 - 120	0	15
Fluoranthene			40.0	42.5		ug/L		106	26 - 137	2	15
Fluorene			40.0	39.5		ug/L		99	59 - 121	2	18
Hexachlorobenzene			40.0	41.7		ug/L		104	1 - 152	1	15
Hexachlorocyclopentadiene			40.0	28.1		ug/L		70	5 - 120	1	50
Hexachloroethane			40.0	27.4		ug/L		69	40 - 120	4	43
Indeno[1,2,3-cd]pyrene			40.0	41.4		ug/L		104	1 - 171	2	17
Isophorone			40.0	40.6		ug/L		102	21 - 196	1	21
N-Nitrosodi-n-propylamine			40.0	38.0		ug/L		95	1 - 230	1	23
N-Nitrosodiphenylamine			40.0	41.9		ug/L		105	54 - 125	4	15
Naphthalene			40.0	34.3		ug/L		86	21 - 133	0	31
Nitrobenzene			40.0	35.7		ug/L		89	35 - 180	0	27
Pentachlorophenol			80.0	87.5		ug/L		109	14 - 176	2	21
Phenanthrene			40.0	41.3		ug/L		103	54 - 120	4	16
Phenol			40.0	18.8		ug/L		47	5 - 120	2	36
Pyrene			40.0	41.6		ug/L		104	52 - 120	3	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*120*		*52 - 151*
2-Fluorobiphenyl	*92*		*44 - 120*
2-Fluorophenol (Surr)	*58*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-727123/3-A
Matrix: Water
Analysis Batch: 727293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 727123

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*92*		*15 - 314*
p-Terphenyl-d14 (Surr)	*103*		*22 - 125*
Phenol-d5 (Surr)	*42*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-726898/1-A
Matrix: Water
Analysis Batch: 727046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 726898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		10/03/24 08:27	10/03/24 14:00	1

Lab Sample ID: LCS 480-726898/2-A
Matrix: Water
Analysis Batch: 727046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 726898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.533		mg/L		107	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-727245/1-A
Matrix: Water
Analysis Batch: 727368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 727245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		10/07/24 11:41	10/07/24 15:42	1

Lab Sample ID: LCS 480-727245/2-A
Matrix: Water
Analysis Batch: 727368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 727245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00720		mg/L		108	85 - 115

Lab Sample ID: 480-223901-6 MS
Matrix: Wastewater
Analysis Batch: 727368

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 727245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00669	0.00609		mg/L		91	70 - 130

Lab Sample ID: 480-223901-6 MSD
Matrix: Wastewater
Analysis Batch: 727368

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 727245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00669	0.00620		mg/L		93	70 - 130	2	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-726990/21
Matrix: Water
Analysis Batch: 726990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			10/03/24 10:03	1

Lab Sample ID: HLCS 480-726990/22
Matrix: Water
Analysis Batch: 726990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.416		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-726990/23
Matrix: Water
Analysis Batch: 726990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.251		mg/L		100	90 - 110		

Lab Sample ID: 480-223901-6 MS
Matrix: Wastewater
Analysis Batch: 726990

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.088	F1	0.100	0.178	F1	mg/L		89	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-727669/1
Matrix: Water
Analysis Batch: 727669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

GC/MS VOA

Analysis Batch: 727049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-5	TRIP BLANK	Total/NA	WQ	624.1	
480-223901-6	001 LAB COMP	Total/NA	Wastewater	624.1	
MB 480-727049/8	Method Blank	Total/NA	Water	624.1	
LCS 480-727049/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 727123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-727123/1-A	Method Blank	Total/NA	Water	625	
LCS 480-727123/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-727123/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 727293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	625.1	727123
MB 480-727123/1-A	Method Blank	Total/NA	Water	625.1	727123
LCS 480-727123/2-A	Lab Control Sample	Total/NA	Water	625.1	727123
LCSD 480-727123/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	727123

Metals

Prep Batch: 726898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	200.7	
MB 480-726898/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-726898/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 727046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	726898
MB 480-726898/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	726898
LCS 480-726898/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	726898

Prep Batch: 727245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 480-727245/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-727245/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-223901-6 MS	001 LAB COMP	Total/NA	Wastewater	245.1	
480-223901-6 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	

Analysis Batch: 727368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	245.1	727245
MB 480-727245/1-A	Method Blank	Total/NA	Water	245.1	727245
LCS 480-727245/2-A	Lab Control Sample	Total/NA	Water	245.1	727245
480-223901-6 MS	001 LAB COMP	Total/NA	Wastewater	245.1	727245
480-223901-6 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	727245

QC Association Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

General Chemistry

Analysis Batch: 726990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-726990/21	Method Blank	Total/NA	Water	335.4	
HLCS 480-726990/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-726990/23	Lab Control Sample	Total/NA	Water	335.4	
480-223901-6 MS	001 LAB COMP	Total/NA	Wastewater	335.4	

Analysis Batch: 727669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223901-6	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-727669/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-223901-5
Date Collected: 10/02/24 00:00
Matrix: WQ
Date Received: 10/02/24 14:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	727049	AXK	EET BUF	10/03/24 22:35

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-223901-6
Date Collected: 10/02/24 00:00
Matrix: Wastewater
Date Received: 10/02/24 14:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	727049	AXK	EET BUF	10/03/24 22:59
Total/NA	Prep	625			727123	LSC	EET BUF	10/04/24 13:02
Total/NA	Analysis	625.1		1	727293	JMM	EET BUF	10/07/24 15:07
Total/NA	Prep	200.7			726898	ET	EET BUF	10/03/24 08:27
Total/NA	Analysis	200.7 Rev 4.4		1	727046	BMB	EET BUF	10/03/24 14:25
Total/NA	Prep	245.1			727245	ESB	EET BUF	10/07/24 11:41
Total/NA	Analysis	245.1		1	727368	ESB	EET BUF	10/07/24 15:45
Total/NA	Analysis	335.4		1	726990	CLT	EET BUF	10/03/24 10:16
Total/NA	Analysis	SM 4500 H+ B		1	727669	KB	EET BUF	10/09/24 12:31

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Job ID: 480-223901-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-223901-5	TRIP BLANK	WQ	10/02/24 00:00	10/02/24 14:23
480-223901-6	001 LAB COMP	Wastewater	10/02/24 00:00	10/02/24 14:23

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193796-34075.1
Client Contact: Jason Gutkowski	Phone: 3154363605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested		Preservation Codes: N - None; D - HNO3; B - NaOH
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

480-223901 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	10/2/24	0558	G	Water			X	X	X	X	X	3	Lab To
001-2		0758		Water			X	X	X	X	X	3	Composite
001-3		0958					X	X	X	X	X	3	Samples
001-4		1158					X	X	X	X	X	3	
Trip Blank		—						X				2	
													Short Hold Time

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Dan Mobbs	Date/Time: 10/2/24 1218	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/2/24 1218	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.6 ICE

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-223901-1

Login Number: 223901
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 11/11/2024 5:50:47 PM

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.- Monthly
Monthly Testing

JOB NUMBER

480-225128-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

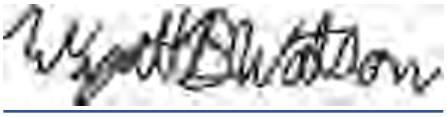
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
11/11/2024 5:50:47 PM

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 7
Client Sample Results 8
Surrogate Summary 12
QC Sample Results 14
QC Association Summary 22
Lab Chronicle 24
Certification Summary 25
Method Summary 26
Sample Summary 27
Chain of Custody 28
Receipt Checklists 29

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-225128-1 Eurofins Buffalo

Job Narrative
480-225128-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 11/5/2024 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C.

GC/MS VOA
Method 624.1_PREC: The continuing calibration verification (CCV) associated with batch 480-731238 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK (480-225128-5) and 001 LAB COMP (480-225128-6).

Method 624.1_PREC: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-731238 recovered outside control limits for the following analytes: Acrolein. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following associated samples are impacted: TRIP BLANK (480-225128-5) and 001 LAB COMP (480-225128-6).

Method 624.1_PREC: The following Volatile sample was composited by the laboratory on 11/05/2024 as requested by the client: 001 LAB COMP (480-225128-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-731397.

Method 625.1_PREC: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-731397 and analytical batch 480-731505 recovered outside control limits for the following analytes: Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.7: The absolute response for total Zinc was greater than the method reporting limit (RL) in the following sample: 001 LAB COMP (480-225128-6).
The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-225128-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Buffalo

Job Narrative
480-225128-1

Receipt
The samples were received on 11/5/2024 12:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 7.0º C.

GC/MS VOA
Method 624.1: The continuing calibration verification (CCV) associated with batch 480-731238 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK (480-225128-5) and 001 LAB COMP (480-225128-6).

Method 624.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-731238 recovered outside control limits for the following analytes: Acrolein. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following associated samples are impacted: TRIP BLANK (480-225128-5) and 001 LAB COMP (480-225128-6).

Method 624.1: The following Volatile sample was composited by the laboratory on 11/05/2024 as requested by the client: 001 LAB COMP (480-225128-6).
Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-731397 and analytical batch 480-731505 recovered outside control limits for the following analytes: Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 200.7 Rev 4.4: The absolute response for total Zinc was greater than the method reporting limit (RL) in the following sample: 001 LAB COMP (480-225128-6).
The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-225128-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-731397.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-225128-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-225128-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.6	J	5.0	0.81	ug/L	1		624.1	Total/NA
1,2,4-Trichlorobenzene	0.81	J B	9.8	0.20	ug/L	1		625.1	Total/NA
Cyanide, Total	0.12		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.4	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-225128-5

Date Collected: 11/05/24 00:00
Matrix: WQ
Date Received: 11/05/24 12:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/05/24 19:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/05/24 19:11	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/05/24 19:11	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/05/24 19:11	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/05/24 19:11	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/05/24 19:11	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/05/24 19:11	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/05/24 19:11	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/05/24 19:11	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/05/24 19:11	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/05/24 19:11	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/05/24 19:11	1
Acrolein	ND	*+	100	17	ug/L			11/05/24 19:11	1
Acrylonitrile	ND		50	1.9	ug/L			11/05/24 19:11	1
Benzene	ND		5.0	0.60	ug/L			11/05/24 19:11	1
Bromoform	ND		5.0	0.47	ug/L			11/05/24 19:11	1
Bromomethane	ND		5.0	1.2	ug/L			11/05/24 19:11	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/05/24 19:11	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/05/24 19:11	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/05/24 19:11	1
Chloroethane	ND		5.0	0.87	ug/L			11/05/24 19:11	1
Chloroform	ND		5.0	0.54	ug/L			11/05/24 19:11	1
Chloromethane	ND		5.0	0.64	ug/L			11/05/24 19:11	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/05/24 19:11	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/05/24 19:11	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/05/24 19:11	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/05/24 19:11	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/05/24 19:11	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/05/24 19:11	1
Toluene	ND		5.0	0.45	ug/L			11/05/24 19:11	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/05/24 19:11	1
Trichloroethene	ND		5.0	0.60	ug/L			11/05/24 19:11	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/05/24 19:11	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/05/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*11/05/24 19:11*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*11/05/24 19:11*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*11/05/24 19:11*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*11/05/24 19:11*	*1*

Client Sample ID: 001 LAB COMP
Date Collected: 11/05/24 00:00
Date Received: 11/05/24 12:20

Lab Sample ID: 480-225128-6
Matrix: Wastewater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/05/24 19:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/05/24 19:36	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/05/24 19:36	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/05/24 19:36	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/05/24 19:36	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/05/24 19:36	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/05/24 19:36	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/05/24 19:36	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/05/24 19:36	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/05/24 19:36	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/05/24 19:36	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/05/24 19:36	1
Acrolein	ND	*+	100	17	ug/L			11/05/24 19:36	1
Acrylonitrile	ND		50	1.9	ug/L			11/05/24 19:36	1
Benzene	ND		5.0	0.60	ug/L			11/05/24 19:36	1
Bromoform	ND		5.0	0.47	ug/L			11/05/24 19:36	1
Bromomethane	ND		5.0	1.2	ug/L			11/05/24 19:36	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/05/24 19:36	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/05/24 19:36	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/05/24 19:36	1
Chloroethane	ND		5.0	0.87	ug/L			11/05/24 19:36	1
Chloroform	ND		5.0	0.54	ug/L			11/05/24 19:36	1
Chloromethane	ND		5.0	0.64	ug/L			11/05/24 19:36	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/05/24 19:36	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/05/24 19:36	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/05/24 19:36	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/05/24 19:36	1
Methylene Chloride	**3.6**	**J**	5.0	0.81	ug/L			11/05/24 19:36	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/05/24 19:36	1
Toluene	ND		5.0	0.45	ug/L			11/05/24 19:36	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/05/24 19:36	1
Trichloroethene	ND		5.0	0.60	ug/L			11/05/24 19:36	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/05/24 19:36	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/05/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*		*11/05/24 19:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*11/05/24 19:36*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*11/05/24 19:36*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*11/05/24 19:36*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	**0.81**	**J B**	9.8	0.20	ug/L		11/06/24 14:03	11/07/24 16:19	1
1,2-Dichlorobenzene	ND		9.8	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1
1,2-Diphenylhydrazine	ND		9.8	0.19	ug/L		11/06/24 14:03	11/07/24 16:19	1
1,3-Dichlorobenzene	ND		9.8	0.17	ug/L		11/06/24 14:03	11/07/24 16:19	1
1,4-Dichlorobenzene	ND		9.8	0.20	ug/L		11/06/24 14:03	11/07/24 16:19	1
2,2'-Oxybis(1-chloropropane)	ND		4.9	0.21	ug/L		11/06/24 14:03	11/07/24 16:19	1
2,4,6-Trichlorophenol	ND		4.9	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-225128-6
Date Collected: 11/05/24 00:00
Matrix: Wastewater
Date Received: 11/05/24 12:20

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.9	0.19	ug/L		11/06/24 14:03	11/07/24 16:19	1
2,4-Dimethylphenol	ND		4.9	0.34	ug/L		11/06/24 14:03	11/07/24 16:19	1
2,4-Dinitrophenol	ND		9.8	1.2	ug/L		11/06/24 14:03	11/07/24 16:19	1
2,4-Dinitrotoluene	ND		9.8	0.39	ug/L		11/06/24 14:03	11/07/24 16:19	1
2,6-Dinitrotoluene	ND		4.9	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1
2-Chloronaphthalene	ND		4.9	0.22	ug/L		11/06/24 14:03	11/07/24 16:19	1
2-Chlorophenol	ND		4.9	0.16	ug/L		11/06/24 14:03	11/07/24 16:19	1
2-Nitrophenol	ND		4.9	0.17	ug/L		11/06/24 14:03	11/07/24 16:19	1
3,3'-Dichlorobenzidine	ND		4.9	0.39	ug/L		11/06/24 14:03	11/07/24 16:19	1
4,6-Dinitro-2-methylphenol	ND		9.8	0.44	ug/L		11/06/24 14:03	11/07/24 16:19	1
4-Bromophenyl phenyl ether	ND		4.9	0.34	ug/L		11/06/24 14:03	11/07/24 16:19	1
4-Chloro-3-methylphenol	ND		4.9	0.27	ug/L		11/06/24 14:03	11/07/24 16:19	1
4-Chlorophenyl phenyl ether	ND		4.9	0.32	ug/L		11/06/24 14:03	11/07/24 16:19	1
4-Nitrophenol	ND		15	0.48	ug/L		11/06/24 14:03	11/07/24 16:19	1
Acenaphthene	ND		4.9	0.20	ug/L		11/06/24 14:03	11/07/24 16:19	1
Acenaphthylene	ND		4.9	0.21	ug/L		11/06/24 14:03	11/07/24 16:19	1
Anthracene	ND		4.9	0.34	ug/L		11/06/24 14:03	11/07/24 16:19	1
Benzidine	ND	*1	78	13	ug/L		11/06/24 14:03	11/07/24 16:19	1
Benzo[a]anthracene	ND		4.9	0.27	ug/L		11/06/24 14:03	11/07/24 16:19	1
Benzo[a]pyrene	ND		4.9	0.32	ug/L		11/06/24 14:03	11/07/24 16:19	1
Benzo[b]fluoranthene	ND		4.9	0.29	ug/L		11/06/24 14:03	11/07/24 16:19	1
Benzo[g,h,i]perylene	ND		4.9	0.37	ug/L		11/06/24 14:03	11/07/24 16:19	1
Benzo[k]fluoranthene	ND		4.9	0.32	ug/L		11/06/24 14:03	11/07/24 16:19	1
Bis(2-chloroethoxy)methane	ND		4.9	0.18	ug/L		11/06/24 14:03	11/07/24 16:19	1
Bis(2-chloroethyl)ether	ND		4.9	0.23	ug/L		11/06/24 14:03	11/07/24 16:19	1
Bis(2-ethylhexyl) phthalate	ND		9.8	0.29	ug/L		11/06/24 14:03	11/07/24 16:19	1
Butyl benzyl phthalate	ND		4.9	0.27	ug/L		11/06/24 14:03	11/07/24 16:19	1
Chrysene	ND		4.9	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1
Decane	ND		9.8	0.39	ug/L		11/06/24 14:03	11/07/24 16:19	1
Di-n-butyl phthalate	ND		4.9	0.39	ug/L		11/06/24 14:03	11/07/24 16:19	1
Di-n-octyl phthalate	ND		4.9	0.29	ug/L		11/06/24 14:03	11/07/24 16:19	1
Dibenz(a,h)anthracene	ND		4.9	0.37	ug/L		11/06/24 14:03	11/07/24 16:19	1
Diethyl phthalate	ND		4.9	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1
Dimethyl phthalate	ND		4.9	0.22	ug/L		11/06/24 14:03	11/07/24 16:19	1
Fluoranthene	ND		4.9	0.39	ug/L		11/06/24 14:03	11/07/24 16:19	1
Fluorene	ND		4.9	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1
Hexachlorobenzene	ND		4.9	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1
Hexachlorobutadiene	ND		4.9	0.25	ug/L		11/06/24 14:03	11/07/24 16:19	1
Hexachlorocyclopentadiene	ND		9.8	0.52	ug/L		11/06/24 14:03	11/07/24 16:19	1
Hexachloroethane	ND		4.9	0.15	ug/L		11/06/24 14:03	11/07/24 16:19	1
Indeno[1,2,3-cd]pyrene	ND		4.9	0.37	ug/L		11/06/24 14:03	11/07/24 16:19	1
Isophorone	ND		4.9	0.18	ug/L		11/06/24 14:03	11/07/24 16:19	1
N-Nitrosodi-n-propylamine	ND		4.9	0.22	ug/L		11/06/24 14:03	11/07/24 16:19	1
N-Nitrosodimethylamine	ND		9.8	0.14	ug/L		11/06/24 14:03	11/07/24 16:19	1
N-Nitrosodiphenylamine	ND		4.9	0.20	ug/L		11/06/24 14:03	11/07/24 16:19	1
Naphthalene	ND		4.9	0.21	ug/L		11/06/24 14:03	11/07/24 16:19	1
Nitrobenzene	ND		4.9	0.20	ug/L		11/06/24 14:03	11/07/24 16:19	1
Pentachlorophenol	ND		9.8	0.77	ug/L		11/06/24 14:03	11/07/24 16:19	1
Phenanthrene	ND		4.9	0.29	ug/L		11/06/24 14:03	11/07/24 16:19	1

Client Sample ID: 001 LAB COMP

Lab Sample ID: 480-225128-6
Date Collected: 11/05/24 00:00
Matrix: Wastewater
Date Received: 11/05/24 12:20

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.9	0.086	ug/L		11/06/24 14:03	11/07/24 16:19	1
Pyrene	ND		4.9	0.34	ug/L		11/06/24 14:03	11/07/24 16:19	1
n-Octadecane	ND		9.8	0.29	ug/L		11/06/24 14:03	11/07/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*52 - 151*	*11/06/24 14:03*	*11/07/24 16:19*	*1*
2-Fluorobiphenyl	*83*		*44 - 120*	*11/06/24 14:03*	*11/07/24 16:19*	*1*
2-Fluorophenol (Surr)	*55*		*17 - 120*	*11/06/24 14:03*	*11/07/24 16:19*	*1*
Nitrobenzene-d5 (Surr)	*86*		*15 - 314*	*11/06/24 14:03*	*11/07/24 16:19*	*1*
p-Terphenyl-d14 (Surr)	*91*		*22 - 125*	*11/06/24 14:03*	*11/07/24 16:19*	*1*
Phenol-d5 (Surr)	*38*		*8 - 424*	*11/06/24 14:03*	*11/07/24 16:19*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND	L	0.010	0.0068	mg/L		11/07/24 09:41	11/07/24 16:59	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/07/24 09:23	11/07/24 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.12**		0.010	0.0041	mg/L			11/06/24 09:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.2**	**HF**	0.1	0.1	SU			11/08/24 15:44	1
Temperature (SM 4500 H+ B)	**16.4**	**HF**	0.001	0.001	Degrees C			11/08/24 15:44	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-225128-6	001 LAB COMP	93	99	100	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-731238/6	Lab Control Sample	93	99	97	103
MB 480-731238/8	Method Blank	94	99	97	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-225128-5	TRIP BLANK	96	100	99	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-225128-6	001 LAB COMP	96	83	55	86	91	38

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
LCS 480-731397/2-A	Lab Control Sample	97	94	60	93	97	43
LCSD 480-731397/3-A	Lab Control Sample Dup	105	95	60	97	101	44
MB 480-731397/1-A	Method Blank	87	89	55	90	98	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-731238/8
Matrix: Water
Analysis Batch: 731238

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/05/24 16:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/05/24 16:38	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/05/24 16:38	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/05/24 16:38	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/05/24 16:38	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/05/24 16:38	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/05/24 16:38	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/05/24 16:38	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/05/24 16:38	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/05/24 16:38	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/05/24 16:38	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/05/24 16:38	1
Acrolein	ND		100	17	ug/L			11/05/24 16:38	1
Acrylonitrile	ND		50	1.9	ug/L			11/05/24 16:38	1
Benzene	ND		5.0	0.60	ug/L			11/05/24 16:38	1
Bromoform	ND		5.0	0.47	ug/L			11/05/24 16:38	1
Bromomethane	ND		5.0	1.2	ug/L			11/05/24 16:38	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/05/24 16:38	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/05/24 16:38	1
Dibromochloromethane	ND		5.0	0.41	ug/L			11/05/24 16:38	1
Chloroethane	ND		5.0	0.87	ug/L			11/05/24 16:38	1
Chloroform	ND		5.0	0.54	ug/L			11/05/24 16:38	1
Chloromethane	ND		5.0	0.64	ug/L			11/05/24 16:38	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/05/24 16:38	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/05/24 16:38	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			11/05/24 16:38	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/05/24 16:38	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/05/24 16:38	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/05/24 16:38	1
Toluene	ND		5.0	0.45	ug/L			11/05/24 16:38	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/05/24 16:38	1
Trichloroethene	ND		5.0	0.60	ug/L			11/05/24 16:38	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			11/05/24 16:38	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/05/24 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*11/05/24 16:38*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*11/05/24 16:38*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*11/05/24 16:38*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/05/24 16:38*	*1*

Lab Sample ID: LCS 480-731238/6
Matrix: Water
Analysis Batch: 731238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	20.0		ug/L		100	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	19.2		ug/L		96	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-731238/6
Matrix: Water
Analysis Batch: 731238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	18.7		ug/L		93	52 - 150
1,1-Dichloroethane	20.0	16.9		ug/L		85	59 - 155
1,1-Dichloroethene	20.0	17.9		ug/L		90	1 - 234
1,2-Dichlorobenzene	20.0	19.1		ug/L		95	18 - 190
1,2-Dichloroethane	20.0	16.9		ug/L		85	49 - 155
1,2-Dichloropropane	20.0	17.6		ug/L		88	1 - 210
1,3-Dichlorobenzene	20.0	18.9		ug/L		94	59 - 156
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190
2-Chloroethyl vinyl ether	20.0	18.8	J	ug/L		94	1 - 305
Benzene	20.0	18.2		ug/L		91	37 - 151
Bromoform	20.0	23.1		ug/L		116	45 - 169
Bromomethane	20.0	16.6		ug/L		83	1 - 242
Carbon tetrachloride	20.0	21.8		ug/L		109	70 - 140
Chlorobenzene	20.0	18.9		ug/L		95	37 - 160
Dibromochloromethane	20.0	21.1		ug/L		106	53 - 149
Chloroethane	20.0	14.2		ug/L		71	14 - 230
Chloroform	20.0	18.3		ug/L		91	51 - 138
Chloromethane	20.0	18.1		ug/L		91	1 - 273
cis-1,3-Dichloropropene	20.0	19.6		ug/L		98	1 - 227
Bromodichloromethane	20.0	19.5		ug/L		97	35 - 155
Ethylbenzene	20.0	18.5		ug/L		92	37 - 162
Methylene Chloride	20.0	19.1		ug/L		96	1 - 221
Tetrachloroethene	20.0	19.1		ug/L		96	64 - 148
Toluene	20.0	18.2		ug/L		91	47 - 150
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	17 - 183
Trichloroethene	20.0	19.2		ug/L		96	71 - 157
Trichlorofluoromethane	20.0	22.7		ug/L		113	17 - 181
Vinyl chloride	20.0	18.3		ug/L		91	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*68 - 130*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*97*		*77 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-731397/1-A
Matrix: Water
Analysis Batch: 731505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.932	J	10	0.21	ug/L		11/06/24 14:03	11/07/24 14:13	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		11/06/24 14:03	11/07/24 14:13	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		11/06/24 14:03	11/07/24 14:13	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		11/06/24 14:03	11/07/24 14:13	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		11/06/24 14:03	11/07/24 14:13	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		11/06/24 14:03	11/07/24 14:13	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		11/06/24 14:03	11/07/24 14:13	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-731397/1-A
Matrix: Water
Analysis Batch: 731505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		11/06/24 14:03	11/07/24 14:13	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		11/06/24 14:03	11/07/24 14:13	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		11/06/24 14:03	11/07/24 14:13	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		11/06/24 14:03	11/07/24 14:13	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		11/06/24 14:03	11/07/24 14:13	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		11/06/24 14:03	11/07/24 14:13	1
2-Chlorophenol	ND		5.0	0.17	ug/L		11/06/24 14:03	11/07/24 14:13	1
2-Nitrophenol	ND		5.0	0.18	ug/L		11/06/24 14:03	11/07/24 14:13	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		11/06/24 14:03	11/07/24 14:13	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		11/06/24 14:03	11/07/24 14:13	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		11/06/24 14:03	11/07/24 14:13	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		11/06/24 14:03	11/07/24 14:13	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		11/06/24 14:03	11/07/24 14:13	1
4-Nitrophenol	ND		15	0.49	ug/L		11/06/24 14:03	11/07/24 14:13	1
Acenaphthene	ND		5.0	0.20	ug/L		11/06/24 14:03	11/07/24 14:13	1
Acenaphthylene	ND		5.0	0.22	ug/L		11/06/24 14:03	11/07/24 14:13	1
Anthracene	ND		5.0	0.35	ug/L		11/06/24 14:03	11/07/24 14:13	1
Benzidine	ND		80	14	ug/L		11/06/24 14:03	11/07/24 14:13	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		11/06/24 14:03	11/07/24 14:13	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		11/06/24 14:03	11/07/24 14:13	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		11/06/24 14:03	11/07/24 14:13	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		11/06/24 14:03	11/07/24 14:13	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		11/06/24 14:03	11/07/24 14:13	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		11/06/24 14:03	11/07/24 14:13	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		11/06/24 14:03	11/07/24 14:13	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		11/06/24 14:03	11/07/24 14:13	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		11/06/24 14:03	11/07/24 14:13	1
Chrysene	ND		5.0	0.25	ug/L		11/06/24 14:03	11/07/24 14:13	1
Decane	ND		10	0.40	ug/L		11/06/24 14:03	11/07/24 14:13	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		11/06/24 14:03	11/07/24 14:13	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		11/06/24 14:03	11/07/24 14:13	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		11/06/24 14:03	11/07/24 14:13	1
Diethyl phthalate	ND		5.0	0.25	ug/L		11/06/24 14:03	11/07/24 14:13	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		11/06/24 14:03	11/07/24 14:13	1
Fluoranthene	ND		5.0	0.40	ug/L		11/06/24 14:03	11/07/24 14:13	1
Fluorene	ND		5.0	0.25	ug/L		11/06/24 14:03	11/07/24 14:13	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		11/06/24 14:03	11/07/24 14:13	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		11/06/24 14:03	11/07/24 14:13	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		11/06/24 14:03	11/07/24 14:13	1
Hexachloroethane	ND		5.0	0.15	ug/L		11/06/24 14:03	11/07/24 14:13	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		11/06/24 14:03	11/07/24 14:13	1
Isophorone	ND		5.0	0.19	ug/L		11/06/24 14:03	11/07/24 14:13	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		11/06/24 14:03	11/07/24 14:13	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		11/06/24 14:03	11/07/24 14:13	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		11/06/24 14:03	11/07/24 14:13	1
Naphthalene	ND		5.0	0.22	ug/L		11/06/24 14:03	11/07/24 14:13	1
Nitrobenzene	ND		5.0	0.20	ug/L		11/06/24 14:03	11/07/24 14:13	1
Pentachlorophenol	ND		10	0.79	ug/L		11/06/24 14:03	11/07/24 14:13	1
Phenanthrene	ND		5.0	0.30	ug/L		11/06/24 14:03	11/07/24 14:13	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-731397/1-A
Matrix: Water
Analysis Batch: 731505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		11/06/24 14:03	11/07/24 14:13	1
Pyrene	ND		5.0	0.35	ug/L		11/06/24 14:03	11/07/24 14:13	1
n-Octadecane	ND		10	0.30	ug/L		11/06/24 14:03	11/07/24 14:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*52 - 151*	*11/06/24 14:03*	*11/07/24 14:13*	*1*
2-Fluorobiphenyl	*89*		*44 - 120*	*11/06/24 14:03*	*11/07/24 14:13*	*1*
2-Fluorophenol (Surr)	*55*		*17 - 120*	*11/06/24 14:03*	*11/07/24 14:13*	*1*
Nitrobenzene-d5 (Surr)	*90*		*15 - 314*	*11/06/24 14:03*	*11/07/24 14:13*	*1*
p-Terphenyl-d14 (Surr)	*98*		*22 - 125*	*11/06/24 14:03*	*11/07/24 14:13*	*1*
Phenol-d5 (Surr)	*37*		*8 - 424*	*11/06/24 14:03*	*11/07/24 14:13*	*1*

Lab Sample ID: LCS 480-731397/2-A
Matrix: Water
Analysis Batch: 731505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	29.3		ug/L		73	44 - 142
1,2-Dichlorobenzene	40.0	28.1		ug/L		70	32 - 129
1,3-Dichlorobenzene	40.0	25.4		ug/L		64	1 - 172
1,4-Dichlorobenzene	40.0	26.3		ug/L		66	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	37.5		ug/L		94	36 - 166
2,4,6-Trichlorophenol	40.0	40.0		ug/L		100	37 - 144
2,4-Dichlorophenol	40.0	38.5		ug/L		96	39 - 135
2,4-Dimethylphenol	40.0	38.9		ug/L		97	32 - 120
2,4-Dinitrophenol	80.0	87.7		ug/L		110	1 - 191
2,4-Dinitrotoluene	40.0	43.6		ug/L		109	39 - 139
2,6-Dinitrotoluene	40.0	43.8		ug/L		109	50 - 158
2-Chloronaphthalene	40.0	35.4		ug/L		88	60 - 120
2-Chlorophenol	40.0	34.9		ug/L		87	23 - 134
2-Nitrophenol	40.0	38.2		ug/L		95	29 - 182
3,3'-Dichlorobenzidine	40.0	32.5		ug/L		81	1 - 262
4,6-Dinitro-2-methylphenol	80.0	87.0		ug/L		109	1 - 181
4-Bromophenyl phenyl ether	40.0	41.1		ug/L		103	53 - 127
4-Chloro-3-methylphenol	40.0	39.7		ug/L		99	22 - 147
4-Chlorophenyl phenyl ether	40.0	40.0		ug/L		100	25 - 158
4-Nitrophenol	80.0	44.5		ug/L		56	1 - 132
Acenaphthene	40.0	37.4		ug/L		93	47 - 145
Acenaphthylene	40.0	40.9		ug/L		102	33 - 145
Anthracene	40.0	41.4		ug/L		104	27 - 133
Benzidine	40.0	17.2	J	ug/L		43	1 - 120
Benzo[a]anthracene	40.0	41.5		ug/L		104	33 - 143
Benzo[a]pyrene	40.0	43.3		ug/L		108	17 - 163
Benzo[b]fluoranthene	40.0	43.9		ug/L		110	24 - 159
Benzo[g,h,i]perylene	40.0	44.6		ug/L		111	1 - 219
Benzo[k]fluoranthene	40.0	39.9		ug/L		100	11 - 162
Bis(2-chloroethoxy)methane	40.0	40.6		ug/L		101	33 - 184
Bis(2-chloroethyl)ether	40.0	37.1		ug/L		93	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-731397/2-A
Matrix: Water
Analysis Batch: 731505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	43.6		ug/L		109	8 - 158
Butyl benzyl phthalate	40.0	44.4		ug/L		111	1 - 152
Chrysene	40.0	39.6		ug/L		99	17 - 168
Di-n-butyl phthalate	40.0	42.0		ug/L		105	1 - 120
Di-n-octyl phthalate	40.0	46.6		ug/L		117	4 - 146
Dibenz(a,h)anthracene	40.0	44.6		ug/L		112	1 - 227
Diethyl phthalate	40.0	44.4		ug/L		111	1 - 120
Dimethyl phthalate	40.0	43.7		ug/L		109	1 - 120
Fluoranthene	40.0	42.1		ug/L		105	26 - 137
Fluorene	40.0	40.9		ug/L		102	59 - 121
Hexachlorobenzene	40.0	41.0		ug/L		103	1 - 152
Hexachlorocyclopentadiene	40.0	25.7		ug/L		64	5 - 120
Hexachloroethane	40.0	23.8		ug/L		59	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	44.0		ug/L		110	1 - 171
Isophorone	40.0	41.8		ug/L		104	21 - 196
N-Nitrosodi-n-propylamine	40.0	39.4		ug/L		98	1 - 230
N-Nitrosodiphenylamine	40.0	40.8		ug/L		102	54 - 125
Naphthalene	40.0	33.4		ug/L		84	21 - 133
Nitrobenzene	40.0	38.5		ug/L		96	35 - 180
Pentachlorophenol	80.0	75.2		ug/L		94	14 - 176
Phenanthrene	40.0	41.0		ug/L		102	54 - 120
Phenol	40.0	17.3		ug/L		43	5 - 120
Pyrene	40.0	39.4		ug/L		99	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*52 - 151*
2-Fluorobiphenyl	*94*		*44 - 120*
2-Fluorophenol (Surr)	*60*		*17 - 120*
Nitrobenzene-d5 (Surr)	*93*		*15 - 314*
p-Terphenyl-d14 (Surr)	*97*		*22 - 125*
Phenol-d5 (Surr)	*43*		*8 - 424*

Lab Sample ID: LCSD 480-731397/3-A
Matrix: Water
Analysis Batch: 731505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731397

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	29.7		ug/L		74	44 - 142	1	34
1,2-Dichlorobenzene	40.0	28.7		ug/L		72	32 - 129	2	38
1,3-Dichlorobenzene	40.0	26.7		ug/L		67	1 - 172	5	37
1,4-Dichlorobenzene	40.0	27.6		ug/L		69	20 - 124	5	40
2,2'-Oxybis(1-chloropropane)	40.0	39.1		ug/L		98	36 - 166	4	36
2,4,6-Trichlorophenol	40.0	41.8		ug/L		104	37 - 144	4	20
2,4-Dichlorophenol	40.0	39.5		ug/L		99	39 - 135	3	23
2,4-Dimethylphenol	40.0	40.8		ug/L		102	32 - 120	5	18
2,4-Dinitrophenol	80.0	90.5		ug/L		113	1 - 191	3	29
2,4-Dinitrotoluene	40.0	44.7		ug/L		112	39 - 139	2	20
2,6-Dinitrotoluene	40.0	42.0		ug/L		105	50 - 158	4	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-731397/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 731505
Prep Batch: 731397

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			40.0	36.3		ug/L		91	60 - 120	3	30
2-Chlorophenol			40.0	37.9		ug/L		95	23 - 134	8	26
2-Nitrophenol			40.0	39.2		ug/L		98	29 - 182	3	28
3,3'-Dichlorobenzidine			40.0	34.3		ug/L		86	1 - 262	6	31
4,6-Dinitro-2-methylphenol			80.0	93.9		ug/L		117	1 - 181	8	30
4-Bromophenyl phenyl ether			40.0	42.7		ug/L		107	53 - 127	4	16
4-Chloro-3-methylphenol			40.0	41.3		ug/L		103	22 - 147	4	16
4-Chlorophenyl phenyl ether			40.0	40.3		ug/L		101	25 - 158	1	15
4-Nitrophenol			80.0	44.9		ug/L		56	1 - 132	1	24
Acenaphthene			40.0	38.4		ug/L		96	47 - 145	3	25
Acenaphthylene			40.0	40.9		ug/L		102	33 - 145	0	22
Anthracene			40.0	42.2		ug/L		106	27 - 133	2	15
Benzidine			40.0	ND	*1	ug/L		22	1 - 120	64	50
Benzo[a]anthracene			40.0	42.8		ug/L		107	33 - 143	3	15
Benzo[a]pyrene			40.0	43.9		ug/L		110	17 - 163	1	15
Benzo[b]fluoranthene			40.0	45.4		ug/L		114	24 - 159	3	17
Benzo[g,h,i]perylene			40.0	45.2		ug/L		113	1 - 219	1	19
Benzo[k]fluoranthene			40.0	41.1		ug/L		103	11 - 162	3	19
Bis(2-chloroethoxy)methane			40.0	42.2		ug/L		106	33 - 184	4	23
Bis(2-chloroethyl)ether			40.0	39.7		ug/L		99	12 - 158	7	33
Bis(2-ethylhexyl) phthalate			40.0	45.1		ug/L		113	8 - 158	4	15
Butyl benzyl phthalate			40.0	46.6		ug/L		116	1 - 152	5	15
Chrysene			40.0	41.5		ug/L		104	17 - 168	5	15
Di-n-butyl phthalate			40.0	46.9		ug/L		117	1 - 120	11	15
Di-n-octyl phthalate			40.0	49.0		ug/L		122	4 - 146	5	15
Dibenz(a,h)anthracene			40.0	45.5		ug/L		114	1 - 227	2	18
Diethyl phthalate			40.0	45.8		ug/L		115	1 - 120	3	15
Dimethyl phthalate			40.0	44.4		ug/L		111	1 - 120	2	15
Fluoranthene			40.0	45.8		ug/L		114	26 - 137	8	15
Fluorene			40.0	40.2		ug/L		101	59 - 121	2	18
Hexachlorobenzene			40.0	42.9		ug/L		107	1 - 152	5	15
Hexachlorocyclopentadiene			40.0	25.4		ug/L		63	5 - 120	1	50
Hexachloroethane			40.0	25.1		ug/L		63	40 - 120	5	43
Indeno[1,2,3-cd]pyrene			40.0	45.1		ug/L		113	1 - 171	3	17
Isophorone			40.0	43.3		ug/L		108	21 - 196	4	21
N-Nitrosodi-n-propylamine			40.0	40.7		ug/L		102	1 - 230	3	23
N-Nitrosodiphenylamine			40.0	44.1		ug/L		110	54 - 125	8	15
Naphthalene			40.0	34.6		ug/L		87	21 - 133	4	31
Nitrobenzene			40.0	40.3		ug/L		101	35 - 180	5	27
Pentachlorophenol			80.0	83.5		ug/L		104	14 - 176	10	21
Phenanthrene			40.0	41.7		ug/L		104	54 - 120	2	16
Phenol			40.0	18.7		ug/L		47	5 - 120	8	36
Pyrene			40.0	42.4		ug/L		106	52 - 120	7	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol (Surr)	*60*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-731397/3-A
Matrix: Water
Analysis Batch: 731505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 731397

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*97*		*15 - 314*
p-Terphenyl-d14 (Surr)	*101*		*22 - 125*
Phenol-d5 (Surr)	*44*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-731423/1-A
Matrix: Water
Analysis Batch: 731634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		11/07/24 09:41	11/07/24 16:56	1

Lab Sample ID: LCS 480-731423/2-A
Matrix: Water
Analysis Batch: 731634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.508		mg/L		102	85 - 115

Lab Sample ID: 480-225128-6 MS
Matrix: Wastewater
Analysis Batch: 731634

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 731423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	ND	L	0.500	0.482		mg/L		96	70 - 130

Lab Sample ID: 480-225128-6 MSD
Matrix: Wastewater
Analysis Batch: 731634

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 731423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	ND	L	0.500	0.472		mg/L		94	70 - 130	2	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-731472/1-A
Matrix: Water
Analysis Batch: 731563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 731472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		11/07/24 09:23	11/07/24 12:44	1

Lab Sample ID: LCS 480-731472/2-A
Matrix: Water
Analysis Batch: 731563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 731472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00663		mg/L		99	85 - 115

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-731360/21
Matrix: Water
Analysis Batch: 731360

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			11/06/24 08:34	1

Lab Sample ID: HLCS 480-731360/22
Matrix: Water
Analysis Batch: 731360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.368		mg/L		92	90 - 110		

Lab Sample ID: LCS 480-731360/23
Matrix: Water
Analysis Batch: 731360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.242		mg/L		97	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-731767/1
Matrix: Water
Analysis Batch: 731767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

GC/MS VOA

Analysis Batch: 731238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-5	TRIP BLANK	Total/NA	WQ	624.1	
480-225128-6	001 LAB COMP	Total/NA	Wastewater	624.1	
MB 480-731238/8	Method Blank	Total/NA	Water	624.1	
LCS 480-731238/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 731397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-731397/1-A	Method Blank	Total/NA	Water	625	
LCS 480-731397/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-731397/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 731505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	625.1	731397
MB 480-731397/1-A	Method Blank	Total/NA	Water	625.1	731397
LCS 480-731397/2-A	Lab Control Sample	Total/NA	Water	625.1	731397
LCSD 480-731397/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	731397

Metals

Prep Batch: 731423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	200.7	
MB 480-731423/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-731423/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-225128-6 MS	001 LAB COMP	Total/NA	Wastewater	200.7	
480-225128-6 MSD	001 LAB COMP	Total/NA	Wastewater	200.7	

Prep Batch: 731472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 480-731472/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-731472/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 731563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	245.1	731472
MB 480-731472/1-A	Method Blank	Total/NA	Water	245.1	731472
LCS 480-731472/2-A	Lab Control Sample	Total/NA	Water	245.1	731472

Analysis Batch: 731634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	731423
MB 480-731423/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	731423
LCS 480-731423/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	731423
480-225128-6 MS	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	731423
480-225128-6 MSD	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	731423

QC Association Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

General Chemistry

Analysis Batch: 731360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-731360/21	Method Blank	Total/NA	Water	335.4	
HLCS 480-731360/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-731360/23	Lab Control Sample	Total/NA	Water	335.4	

Analysis Batch: 731767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225128-6	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-731767/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-225128-5
Date Collected: 11/05/24 00:00
Matrix: WQ
Date Received: 11/05/24 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	731238	AXK	EET BUF	11/05/24 19:11

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-225128-6
Date Collected: 11/05/24 00:00
Matrix: Wastewater
Date Received: 11/05/24 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	731238	AXK	EET BUF	11/05/24 19:36
Total/NA	Prep	625			731397	LSC	EET BUF	11/06/24 14:03
Total/NA	Analysis	625.1		1	731505	JMM	EET BUF	11/07/24 16:19
Total/NA	Prep	200.7			731423	ET	EET BUF	11/07/24 09:41
Total/NA	Analysis	200.7 Rev 4.4		1	731634	BMB	EET BUF	11/07/24 16:59
Total/NA	Prep	245.1			731472	ESB	EET BUF	11/07/24 09:23
Total/NA	Analysis	245.1		1	731563	ESB	EET BUF	11/07/24 13:04
Total/NA	Analysis	335.4		1	731360	CLT	EET BUF	11/06/24 09:24
Total/NA	Analysis	SM 4500 H+ B		1	731767	KB	EET BUF	11/08/24 15:44

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225128-1
Project/Site: Iroquois Gas/Westwood Pharm.- Monthly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225128-5	TRIP BLANK	WQ	11/05/24 00:00	11/05/24 12:20
480-225128-6	001 LAB COMP	Wastewater	11/05/24 00:00	11/05/24 12:20

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Phone (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information
Client Contact: Jason Gutkowski
Company: Arcadis US Inc.
Address: One Lincoln Center 110 West Fayette St, Suite 300
City: Syracuse
State, Zip: NY, 13202
Phone: 3154363605
Email: jason.gutkowski@arcadis.com
Project Name: Iroquois Gas/Westwood Pharm. Monthly
Site: New York

Sampler: Jason Gutkowski
Phone: 3154363605
PWSID:
Due Date Requested:
TAT Requested (days): Standard Turn
Compliance Project: Δ Yes Δ No
PO #: Needed
WO #: 30003542-00001
Project #: 48011056
SSOW#:

Lab PM: Schove, John R
E-Mail: John.Schove@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-152835-15940.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
D - HNO3
B - NaOH
N - None
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7, 245.1	335.4 - Cyanide, Total	SM4500_H+ - pH	625.1_PREC - (MOD) Priority Pollutant List - SVOA - 6	624.1_PREC - (MOD) Priority Pollutant List - VOA - 62	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	B	N	N	N		
001-1	11/5/24	0610	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2		0810					X	X	X	X	X		
001-3		1010					X	X	X	X	X		
001-4		1210					X	X	X	X	X		
Trip Blank		—									X		Short Hold Time

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed)
☐ Return To Client ☐ Disposal B

480-225128 Chain of Custody

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Dan Mullen	11/5/24/1222	Arcadis			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-5-24 1220	Company TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 7.0 ICE IR # 51

Ver: 05/06/2024

11/11/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-225128-1

Login Number: 225128
List Number: 1
Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	7.0 ICE IR# SC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 12/13/2024 2:15:41 PM

JOB DESCRIPTION

Monthly Discharge Analysis
Monthly Testing

JOB NUMBER

480-225895-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
12/13/2024 2:15:41 PM

Authorized for release by
Gale Prinster, Project Mgmt. Assistant
gale.prinster@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 20
Lab Chronicle 22
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-225895-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-225895-1 Eurofins Buffalo

Job Narrative
480-225895-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/3/2024 10:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

GC/MS VOA
Method 624.1_PREC: The following Volatile sample was composited by the laboratory on 12/04/2024 as requested by the client: 001 LAB COMP (480-225895-6). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-734133.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.7: The following sample was diluted due to the nature of the sample matrix: 001 LAB COMP (480-225895-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-225895-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225895-1
Project/Site: Monthly Discharge Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-225895-5

No Detections.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-225895-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.12		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	23.0	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Date Collected: 12/03/24 00:00
Date Received: 12/03/24 10:58

Lab Sample ID: 480-225895-5

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			12/04/24 15:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			12/04/24 15:50	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/04/24 15:50	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			12/04/24 15:50	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			12/04/24 15:50	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			12/04/24 15:50	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/04/24 15:50	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/04/24 15:50	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			12/04/24 15:50	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			12/04/24 15:50	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			12/04/24 15:50	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			12/04/24 15:50	1
Acrolein	ND		100	17	ug/L			12/04/24 15:50	1
Acrylonitrile	ND		50	1.9	ug/L			12/04/24 15:50	1
Benzene	ND		5.0	0.60	ug/L			12/04/24 15:50	1
Bromoform	ND		5.0	0.47	ug/L			12/04/24 15:50	1
Bromomethane	ND		5.0	1.2	ug/L			12/04/24 15:50	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/04/24 15:50	1
Chlorobenzene	ND		5.0	0.48	ug/L			12/04/24 15:50	1
Dibromochloromethane	ND		5.0	0.41	ug/L			12/04/24 15:50	1
Chloroethane	ND		5.0	0.87	ug/L			12/04/24 15:50	1
Chloroform	ND		5.0	0.54	ug/L			12/04/24 15:50	1
Chloromethane	ND		5.0	0.64	ug/L			12/04/24 15:50	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			12/04/24 15:50	1
Bromodichloromethane	ND		5.0	0.54	ug/L			12/04/24 15:50	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			12/04/24 15:50	1
Ethylbenzene	ND		5.0	0.46	ug/L			12/04/24 15:50	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/04/24 15:50	1
Tetrachloroethene	ND		5.0	0.34	ug/L			12/04/24 15:50	1
Toluene	ND		5.0	0.45	ug/L			12/04/24 15:50	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			12/04/24 15:50	1
Trichloroethene	ND		5.0	0.60	ug/L			12/04/24 15:50	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			12/04/24 15:50	1
Vinyl chloride	ND		5.0	0.75	ug/L			12/04/24 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*68 - 130*		*12/04/24 15:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*12/04/24 15:50*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*12/04/24 15:50*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*12/04/24 15:50*	*1*

Client Sample ID: 001 LAB COMP

Date Collected: 12/03/24 10:42
Date Received: 12/03/24 10:58

Lab Sample ID: 480-225895-6

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			12/04/24 16:14	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			12/04/24 16:14	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/04/24 16:14	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			12/04/24 16:14	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			12/04/24 16:14	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			12/04/24 16:14	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/04/24 16:14	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/04/24 16:14	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			12/04/24 16:14	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			12/04/24 16:14	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			12/04/24 16:14	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			12/04/24 16:14	1
Acrolein	ND		100	17	ug/L			12/04/24 16:14	1
Acrylonitrile	ND		50	1.9	ug/L			12/04/24 16:14	1
Benzene	ND		5.0	0.60	ug/L			12/04/24 16:14	1
Bromoform	ND		5.0	0.47	ug/L			12/04/24 16:14	1
Bromomethane	ND		5.0	1.2	ug/L			12/04/24 16:14	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/04/24 16:14	1
Chlorobenzene	ND		5.0	0.48	ug/L			12/04/24 16:14	1
Dibromochloromethane	ND		5.0	0.41	ug/L			12/04/24 16:14	1
Chloroethane	ND		5.0	0.87	ug/L			12/04/24 16:14	1
Chloroform	ND		5.0	0.54	ug/L			12/04/24 16:14	1
Chloromethane	ND		5.0	0.64	ug/L			12/04/24 16:14	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			12/04/24 16:14	1
Bromodichloromethane	ND		5.0	0.54	ug/L			12/04/24 16:14	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			12/04/24 16:14	1
Ethylbenzene	ND		5.0	0.46	ug/L			12/04/24 16:14	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/04/24 16:14	1
Tetrachloroethene	ND		5.0	0.34	ug/L			12/04/24 16:14	1
Toluene	ND		5.0	0.45	ug/L			12/04/24 16:14	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			12/04/24 16:14	1
Trichloroethene	ND		5.0	0.60	ug/L			12/04/24 16:14	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			12/04/24 16:14	1
Vinyl chloride	ND		5.0	0.75	ug/L			12/04/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*12/04/24 16:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*12/04/24 16:14*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*12/04/24 16:14*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*12/04/24 16:14*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11	0.22	ug/L		12/03/24 14:23	12/04/24 13:57	1
1,2-Dichlorobenzene	ND		11	0.27	ug/L		12/03/24 14:23	12/04/24 13:57	1
1,2-Diphenylhydrazine	ND		11	0.21	ug/L		12/03/24 14:23	12/04/24 13:57	1
1,3-Dichlorobenzene	ND		11	0.18	ug/L		12/03/24 14:23	12/04/24 13:57	1
1,4-Dichlorobenzene	ND		11	0.22	ug/L		12/03/24 14:23	12/04/24 13:57	1
2,2'-Oxybis(1-chloropropane)	ND		5.3	0.22	ug/L		12/03/24 14:23	12/04/24 13:57	1
2,4,6-Trichlorophenol	ND		5.3	0.26	ug/L		12/03/24 14:23	12/04/24 13:57	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-225895-1

Client Sample ID: 001 LAB COMP
Date Collected: 12/03/24 10:42
Date Received: 12/03/24 10:58

Lab Sample ID: 480-225895-6
Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.3	0.20	ug/L		12/03/24 14:23	12/04/24 13:57	1
2,4-Dimethylphenol	ND		5.3	0.37	ug/L		12/03/24 14:23	12/04/24 13:57	1
2,4-Dinitrophenol	ND		11	1.3	ug/L		12/03/24 14:23	12/04/24 13:57	1
2,4-Dinitrotoluene	ND		11	0.42	ug/L		12/03/24 14:23	12/04/24 13:57	1
2,6-Dinitrotoluene	ND		5.3	0.26	ug/L		12/03/24 14:23	12/04/24 13:57	1
2-Chloronaphthalene	ND		5.3	0.24	ug/L		12/03/24 14:23	12/04/24 13:57	1
2-Chlorophenol	ND		5.3	0.17	ug/L		12/03/24 14:23	12/04/24 13:57	1
2-Nitrophenol	ND		5.3	0.18	ug/L		12/03/24 14:23	12/04/24 13:57	1
3,3'-Dichlorobenzidine	ND		5.3	0.42	ug/L		12/03/24 14:23	12/04/24 13:57	1
4,6-Dinitro-2-methylphenol	ND		11	0.47	ug/L		12/03/24 14:23	12/04/24 13:57	1
4-Bromophenyl phenyl ether	ND		5.3	0.37	ug/L		12/03/24 14:23	12/04/24 13:57	1
4-Chloro-3-methylphenol	ND		5.3	0.29	ug/L		12/03/24 14:23	12/04/24 13:57	1
4-Chlorophenyl phenyl ether	ND		5.3	0.34	ug/L		12/03/24 14:23	12/04/24 13:57	1
4-Nitrophenol	ND		16	0.51	ug/L		12/03/24 14:23	12/04/24 13:57	1
Acenaphthene	ND		5.3	0.21	ug/L		12/03/24 14:23	12/04/24 13:57	1
Acenaphthylene	ND		5.3	0.23	ug/L		12/03/24 14:23	12/04/24 13:57	1
Anthracene	ND		5.3	0.37	ug/L		12/03/24 14:23	12/04/24 13:57	1
Benzidine	ND		84	14	ug/L		12/03/24 14:23	12/04/24 13:57	1
Benzo[a]anthracene	ND		5.3	0.29	ug/L		12/03/24 14:23	12/04/24 13:57	1
Benzo[a]pyrene	ND		5.3	0.34	ug/L		12/03/24 14:23	12/04/24 13:57	1
Benzo[b]fluoranthene	ND		5.3	0.32	ug/L		12/03/24 14:23	12/04/24 13:57	1
Benzo[g,h,i]perylene	ND		5.3	0.39	ug/L		12/03/24 14:23	12/04/24 13:57	1
Benzo[k]fluoranthene	ND		5.3	0.34	ug/L		12/03/24 14:23	12/04/24 13:57	1
Bis(2-chloroethoxy)methane	ND		5.3	0.20	ug/L		12/03/24 14:23	12/04/24 13:57	1
Bis(2-chloroethyl)ether	ND		5.3	0.24	ug/L		12/03/24 14:23	12/04/24 13:57	1
Bis(2-ethylhexyl) phthalate	ND		11	0.32	ug/L		12/03/24 14:23	12/04/24 13:57	1
Butyl benzyl phthalate	ND		5.3	0.29	ug/L		12/03/24 14:23	12/04/24 13:57	1
Chrysene	ND		5.3	0.26	ug/L		12/03/24 14:23	12/04/24 13:57	1
Decane	ND		11	0.42	ug/L		12/03/24 14:23	12/04/24 13:57	1
Di-n-butyl phthalate	ND		5.3	0.42	ug/L		12/03/24 14:23	12/04/24 13:57	1
Di-n-octyl phthalate	ND		5.3	0.32	ug/L		12/03/24 14:23	12/04/24 13:57	1
Dibenz(a,h)anthracene	ND		5.3	0.39	ug/L		12/03/24 14:23	12/04/24 13:57	1
Diethyl phthalate	ND		5.3	0.26	ug/L		12/03/24 14:23	12/04/24 13:57	1
Dimethyl phthalate	ND		5.3	0.24	ug/L		12/03/24 14:23	12/04/24 13:57	1
Fluoranthene	ND		5.3	0.42	ug/L		12/03/24 14:23	12/04/24 13:57	1
Fluorene	ND		5.3	0.26	ug/L		12/03/24 14:23	12/04/24 13:57	1
Hexachlorobenzene	ND		5.3	0.26	ug/L		12/03/24 14:23	12/04/24 13:57	1
Hexachlorobutadiene	ND		5.3	0.26	ug/L		12/03/24 14:23	12/04/24 13:57	1
Hexachlorocyclopentadiene	ND		11	0.56	ug/L		12/03/24 14:23	12/04/24 13:57	1
Hexachloroethane	ND		5.3	0.16	ug/L		12/03/24 14:23	12/04/24 13:57	1
Indeno[1,2,3-cd]pyrene	ND		5.3	0.39	ug/L		12/03/24 14:23	12/04/24 13:57	1
Isophorone	ND		5.3	0.19	ug/L		12/03/24 14:23	12/04/24 13:57	1
N-Nitrosodi-n-propylamine	ND		5.3	0.23	ug/L		12/03/24 14:23	12/04/24 13:57	1
N-Nitrosodimethylamine	ND		11	0.15	ug/L		12/03/24 14:23	12/04/24 13:57	1
N-Nitrosodiphenylamine	ND		5.3	0.22	ug/L		12/03/24 14:23	12/04/24 13:57	1
Naphthalene	ND		5.3	0.23	ug/L		12/03/24 14:23	12/04/24 13:57	1
Nitrobenzene	ND		5.3	0.21	ug/L		12/03/24 14:23	12/04/24 13:57	1
Pentachlorophenol	ND		11	0.83	ug/L		12/03/24 14:23	12/04/24 13:57	1
Phenanthrene	ND		5.3	0.32	ug/L		12/03/24 14:23	12/04/24 13:57	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-225895-6

Date Collected: 12/03/24 10:42
Matrix: Water
Date Received: 12/03/24 10:58

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.3	0.092	ug/L		12/03/24 14:23	12/04/24 13:57	1
Pyrene	ND		5.3	0.37	ug/L		12/03/24 14:23	12/04/24 13:57	1
n-Octadecane	ND		11	0.32	ug/L		12/03/24 14:23	12/04/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*52 - 151*	*12/03/24 14:23*	*12/04/24 13:57*	*1*
2-Fluorobiphenyl	*93*		*44 - 120*	*12/03/24 14:23*	*12/04/24 13:57*	*1*
2-Fluorophenol (Surr)	*58*		*17 - 120*	*12/03/24 14:23*	*12/04/24 13:57*	*1*
Nitrobenzene-d5 (Surr)	*94*		*15 - 314*	*12/03/24 14:23*	*12/04/24 13:57*	*1*
p-Terphenyl-d14 (Surr)	*97*		*22 - 125*	*12/03/24 14:23*	*12/04/24 13:57*	*1*
Phenol-d5 (Surr)	*43*		*8 - 424*	*12/03/24 14:23*	*12/04/24 13:57*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.050	0.034	mg/L		12/04/24 08:58	12/05/24 11:29	5

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		12/05/24 10:58	12/05/24 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.12**		0.010	0.0041	mg/L			12/05/24 16:44	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.9**	**HF**	0.1	0.1	SU			12/13/24 10:33	1
Temperature (SM 4500 H+ B)	**23.0**	**HF**	0.001	0.001	Degrees C			12/13/24 10:33	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-225895-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-225895-6	001 LAB COMP	104	101	99	100
LCS 480-734237/6	Lab Control Sample	102	101	98	104
MB 480-734237/8	Method Blank	104	103	101	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-225895-5	TRIP BLANK	110	103	101	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-225895-6	001 LAB COMP	102	93	58	94	97	43
LCS 480-734133/2-A	Lab Control Sample	108	95	58	90	98	42
LCSD 480-734133/3-A	Lab Control Sample Dup	113	98	58	96	103	42
MB 480-734133/1-A	Method Blank	85	82	51	84	88	36

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-734237/8
Matrix: Water
Analysis Batch: 734237

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			12/04/24 13:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			12/04/24 13:11	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/04/24 13:11	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			12/04/24 13:11	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			12/04/24 13:11	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			12/04/24 13:11	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/04/24 13:11	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/04/24 13:11	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			12/04/24 13:11	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			12/04/24 13:11	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			12/04/24 13:11	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			12/04/24 13:11	1
Acrolein	ND		100	17	ug/L			12/04/24 13:11	1
Acrylonitrile	ND		50	1.9	ug/L			12/04/24 13:11	1
Benzene	ND		5.0	0.60	ug/L			12/04/24 13:11	1
Bromoform	ND		5.0	0.47	ug/L			12/04/24 13:11	1
Bromomethane	ND		5.0	1.2	ug/L			12/04/24 13:11	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/04/24 13:11	1
Chlorobenzene	ND		5.0	0.48	ug/L			12/04/24 13:11	1
Dibromochloromethane	ND		5.0	0.41	ug/L			12/04/24 13:11	1
Chloroethane	ND		5.0	0.87	ug/L			12/04/24 13:11	1
Chloroform	ND		5.0	0.54	ug/L			12/04/24 13:11	1
Chloromethane	ND		5.0	0.64	ug/L			12/04/24 13:11	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			12/04/24 13:11	1
Bromodichloromethane	ND		5.0	0.54	ug/L			12/04/24 13:11	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			12/04/24 13:11	1
Ethylbenzene	ND		5.0	0.46	ug/L			12/04/24 13:11	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/04/24 13:11	1
Tetrachloroethene	ND		5.0	0.34	ug/L			12/04/24 13:11	1
Toluene	ND		5.0	0.45	ug/L			12/04/24 13:11	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			12/04/24 13:11	1
Trichloroethene	ND		5.0	0.60	ug/L			12/04/24 13:11	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			12/04/24 13:11	1
Vinyl chloride	ND		5.0	0.75	ug/L			12/04/24 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*12/04/24 13:11*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*12/04/24 13:11*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*12/04/24 13:11*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*12/04/24 13:11*	*1*

Lab Sample ID: LCS 480-734237/6
Matrix: Water
Analysis Batch: 734237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	21.2		ug/L		106	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	19.3		ug/L		97	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-734237/6
Matrix: Water
Analysis Batch: 734237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	52 - 150
1,1-Dichloroethane	20.0	21.0		ug/L		105	59 - 155
1,1-Dichloroethene	20.0	21.4		ug/L		107	1 - 234
1,2-Dichlorobenzene	20.0	20.5		ug/L		102	18 - 190
1,2-Dichloroethane	20.0	21.1		ug/L		105	49 - 155
1,2-Dichloropropane	20.0	20.3		ug/L		102	1 - 210
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	59 - 156
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	18 - 190
2-Chloroethyl vinyl ether	20.0	20.9	J	ug/L		104	1 - 305
Benzene	20.0	21.3		ug/L		107	37 - 151
Bromoform	20.0	20.2		ug/L		101	45 - 169
Bromomethane	20.0	26.1		ug/L		131	1 - 242
Carbon tetrachloride	20.0	19.3		ug/L		96	70 - 140
Chlorobenzene	20.0	20.7		ug/L		103	37 - 160
Dibromochloromethane	20.0	20.3		ug/L		102	53 - 149
Chloroethane	20.0	23.3		ug/L		116	14 - 230
Chloroform	20.0	21.0		ug/L		105	51 - 138
Chloromethane	20.0	17.8		ug/L		89	1 - 273
cis-1,3-Dichloropropene	20.0	20.7		ug/L		104	1 - 227
Bromodichloromethane	20.0	21.2		ug/L		106	35 - 155
Ethylbenzene	20.0	20.6		ug/L		103	37 - 162
Methylene Chloride	20.0	22.6		ug/L		113	1 - 221
Tetrachloroethene	20.0	20.7		ug/L		104	64 - 148
Toluene	20.0	20.5		ug/L		103	47 - 150
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	17 - 183
Trichloroethene	20.0	21.5		ug/L		108	71 - 157
Trichlorofluoromethane	20.0	23.7		ug/L		118	17 - 181
Vinyl chloride	20.0	22.7		ug/L		114	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*98*		*77 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-734133/1-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		12/03/24 13:43	12/04/24 11:52	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		12/03/24 13:43	12/04/24 11:52	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		12/03/24 13:43	12/04/24 11:52	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		12/03/24 13:43	12/04/24 11:52	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		12/03/24 13:43	12/04/24 11:52	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		12/03/24 13:43	12/04/24 11:52	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		12/03/24 13:43	12/04/24 11:52	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-734133/1-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		12/03/24 13:43	12/04/24 11:52	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		12/03/24 13:43	12/04/24 11:52	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		12/03/24 13:43	12/04/24 11:52	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		12/03/24 13:43	12/04/24 11:52	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		12/03/24 13:43	12/04/24 11:52	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		12/03/24 13:43	12/04/24 11:52	1
2-Chlorophenol	ND		5.0	0.17	ug/L		12/03/24 13:43	12/04/24 11:52	1
2-Nitrophenol	ND		5.0	0.18	ug/L		12/03/24 13:43	12/04/24 11:52	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		12/03/24 13:43	12/04/24 11:52	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		12/03/24 13:43	12/04/24 11:52	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		12/03/24 13:43	12/04/24 11:52	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		12/03/24 13:43	12/04/24 11:52	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		12/03/24 13:43	12/04/24 11:52	1
4-Nitrophenol	ND		15	0.49	ug/L		12/03/24 13:43	12/04/24 11:52	1
Acenaphthene	ND		5.0	0.20	ug/L		12/03/24 13:43	12/04/24 11:52	1
Acenaphthylene	ND		5.0	0.22	ug/L		12/03/24 13:43	12/04/24 11:52	1
Anthracene	ND		5.0	0.35	ug/L		12/03/24 13:43	12/04/24 11:52	1
Benzidine	ND		80	14	ug/L		12/03/24 13:43	12/04/24 11:52	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		12/03/24 13:43	12/04/24 11:52	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		12/03/24 13:43	12/04/24 11:52	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		12/03/24 13:43	12/04/24 11:52	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		12/03/24 13:43	12/04/24 11:52	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		12/03/24 13:43	12/04/24 11:52	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		12/03/24 13:43	12/04/24 11:52	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		12/03/24 13:43	12/04/24 11:52	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		12/03/24 13:43	12/04/24 11:52	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		12/03/24 13:43	12/04/24 11:52	1
Chrysene	ND		5.0	0.25	ug/L		12/03/24 13:43	12/04/24 11:52	1
Decane	ND		10	0.40	ug/L		12/03/24 13:43	12/04/24 11:52	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		12/03/24 13:43	12/04/24 11:52	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		12/03/24 13:43	12/04/24 11:52	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		12/03/24 13:43	12/04/24 11:52	1
Diethyl phthalate	ND		5.0	0.25	ug/L		12/03/24 13:43	12/04/24 11:52	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		12/03/24 13:43	12/04/24 11:52	1
Fluoranthene	ND		5.0	0.40	ug/L		12/03/24 13:43	12/04/24 11:52	1
Fluorene	ND		5.0	0.25	ug/L		12/03/24 13:43	12/04/24 11:52	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		12/03/24 13:43	12/04/24 11:52	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		12/03/24 13:43	12/04/24 11:52	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		12/03/24 13:43	12/04/24 11:52	1
Hexachloroethane	ND		5.0	0.15	ug/L		12/03/24 13:43	12/04/24 11:52	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		12/03/24 13:43	12/04/24 11:52	1
Isophorone	ND		5.0	0.19	ug/L		12/03/24 13:43	12/04/24 11:52	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		12/03/24 13:43	12/04/24 11:52	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		12/03/24 13:43	12/04/24 11:52	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		12/03/24 13:43	12/04/24 11:52	1
Naphthalene	ND		5.0	0.22	ug/L		12/03/24 13:43	12/04/24 11:52	1
Nitrobenzene	ND		5.0	0.20	ug/L		12/03/24 13:43	12/04/24 11:52	1
Pentachlorophenol	ND		10	0.79	ug/L		12/03/24 13:43	12/04/24 11:52	1
Phenanthrene	ND		5.0	0.30	ug/L		12/03/24 13:43	12/04/24 11:52	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-734133/1-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		12/03/24 13:43	12/04/24 11:52	1
Pyrene	ND		5.0	0.35	ug/L		12/03/24 13:43	12/04/24 11:52	1
n-Octadecane	ND		10	0.30	ug/L		12/03/24 13:43	12/04/24 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*52 - 151*	*12/03/24 13:43*	*12/04/24 11:52*	*1*
2-Fluorobiphenyl	*82*		*44 - 120*	*12/03/24 13:43*	*12/04/24 11:52*	*1*
2-Fluorophenol (Surr)	*51*		*17 - 120*	*12/03/24 13:43*	*12/04/24 11:52*	*1*
Nitrobenzene-d5 (Surr)	*84*		*15 - 314*	*12/03/24 13:43*	*12/04/24 11:52*	*1*
p-Terphenyl-d14 (Surr)	*88*		*22 - 125*	*12/03/24 13:43*	*12/04/24 11:52*	*1*
Phenol-d5 (Surr)	*36*		*8 - 424*	*12/03/24 13:43*	*12/04/24 11:52*	*1*

Lab Sample ID: LCS 480-734133/2-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	29.9		ug/L		75	44 - 142
1,2-Dichlorobenzene	40.0	29.2		ug/L		73	32 - 129
1,3-Dichlorobenzene	40.0	25.6		ug/L		64	1 - 172
1,4-Dichlorobenzene	40.0	26.0		ug/L		65	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	36.8		ug/L		92	36 - 166
2,4,6-Trichlorophenol	40.0	42.9		ug/L		107	37 - 144
2,4-Dichlorophenol	40.0	40.1		ug/L		100	39 - 135
2,4-Dimethylphenol	40.0	40.3		ug/L		101	32 - 120
2,4-Dinitrophenol	80.0	98.9		ug/L		124	1 - 191
2,4-Dinitrotoluene	40.0	44.2		ug/L		111	39 - 139
2,6-Dinitrotoluene	40.0	43.7		ug/L		109	50 - 158
2-Chloronaphthalene	40.0	34.8		ug/L		87	60 - 120
2-Chlorophenol	40.0	35.5		ug/L		89	23 - 134
2-Nitrophenol	40.0	41.5		ug/L		104	29 - 182
3,3'-Dichlorobenzidine	40.0	32.4		ug/L		81	1 - 262
4,6-Dinitro-2-methylphenol	80.0	97.2		ug/L		122	1 - 181
4-Bromophenyl phenyl ether	40.0	39.4		ug/L		99	53 - 127
4-Chloro-3-methylphenol	40.0	40.5		ug/L		101	22 - 147
4-Chlorophenyl phenyl ether	40.0	40.4		ug/L		101	25 - 158
4-Nitrophenol	80.0	44.5		ug/L		56	1 - 132
Acenaphthene	40.0	37.3		ug/L		93	47 - 145
Acenaphthylene	40.0	40.0		ug/L		100	33 - 145
Anthracene	40.0	41.6		ug/L		104	27 - 133
Benzidine	40.0	ND		ug/L		23	1 - 120
Benzo[a]anthracene	40.0	43.5		ug/L		109	33 - 143
Benzo[a]pyrene	40.0	41.9		ug/L		105	17 - 163
Benzo[b]fluoranthene	40.0	41.9		ug/L		105	24 - 159
Benzo[g,h,i]perylene	40.0	45.7		ug/L		114	1 - 219
Benzo[k]fluoranthene	40.0	41.3		ug/L		103	11 - 162
Bis(2-chloroethoxy)methane	40.0	37.3		ug/L		93	33 - 184
Bis(2-chloroethyl)ether	40.0	35.0		ug/L		87	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-734133/2-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	42.1		ug/L		105	8 - 158
Butyl benzyl phthalate	40.0	42.4		ug/L		106	1 - 152
Chrysene	40.0	41.6		ug/L		104	17 - 168
Di-n-butyl phthalate	40.0	41.8		ug/L		104	1 - 120
Di-n-octyl phthalate	40.0	44.5		ug/L		111	4 - 146
Dibenz(a,h)anthracene	40.0	44.4		ug/L		111	1 - 227
Diethyl phthalate	40.0	42.9		ug/L		107	1 - 120
Dimethyl phthalate	40.0	43.5		ug/L		109	1 - 120
Fluoranthene	40.0	43.1		ug/L		108	26 - 137
Fluorene	40.0	40.6		ug/L		101	59 - 121
Hexachlorobenzene	40.0	40.6		ug/L		102	1 - 152
Hexachlorocyclopentadiene	40.0	27.3		ug/L		68	5 - 120
Hexachloroethane	40.0	24.5		ug/L		61	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	44.4		ug/L		111	1 - 171
Isophorone	40.0	42.1		ug/L		105	21 - 196
N-Nitrosodi-n-propylamine	40.0	40.0		ug/L		100	1 - 230
N-Nitrosodiphenylamine	40.0	40.7		ug/L		102	54 - 125
Naphthalene	40.0	33.3		ug/L		83	21 - 133
Nitrobenzene	40.0	37.5		ug/L		94	35 - 180
Pentachlorophenol	80.0	88.6		ug/L		111	14 - 176
Phenanthrene	40.0	39.7		ug/L		99	54 - 120
Phenol	40.0	18.5		ug/L		46	5 - 120
Pyrene	40.0	40.2		ug/L		100	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*108*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol (Surr)	*58*		*17 - 120*
Nitrobenzene-d5 (Surr)	*90*		*15 - 314*
p-Terphenyl-d14 (Surr)	*98*		*22 - 125*
Phenol-d5 (Surr)	*42*		*8 - 424*

Lab Sample ID: LCSD 480-734133/3-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 734133

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	32.1		ug/L		80	44 - 142	7	34
1,2-Dichlorobenzene	40.0	29.9		ug/L		75	32 - 129	3	38
1,3-Dichlorobenzene	40.0	26.7		ug/L		67	1 - 172	4	37
1,4-Dichlorobenzene	40.0	27.8		ug/L		69	20 - 124	6	40
2,2'-Oxybis(1-chloropropane)	40.0	36.6		ug/L		92	36 - 166	0	36
2,4,6-Trichlorophenol	40.0	43.4		ug/L		108	37 - 144	1	20
2,4-Dichlorophenol	40.0	41.2		ug/L		103	39 - 135	3	23
2,4-Dimethylphenol	40.0	42.4		ug/L		106	32 - 120	5	18
2,4-Dinitrophenol	80.0	111		ug/L		139	1 - 191	12	29
2,4-Dinitrotoluene	40.0	46.7		ug/L		117	39 - 139	6	20
2,6-Dinitrotoluene	40.0	46.4		ug/L		116	50 - 158	6	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-734133/3-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 734133

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			40.0	35.4		ug/L		89	60 - 120	2	30
2-Chlorophenol			40.0	36.7		ug/L		92	23 - 134	3	26
2-Nitrophenol			40.0	43.9		ug/L		110	29 - 182	6	28
3,3'-Dichlorobenzidine			40.0	35.0		ug/L		87	1 - 262	8	31
4,6-Dinitro-2-methylphenol			80.0	103		ug/L		128	1 - 181	6	30
4-Bromophenyl phenyl ether			40.0	42.0		ug/L		105	53 - 127	6	16
4-Chloro-3-methylphenol			40.0	43.9		ug/L		110	22 - 147	8	16
4-Chlorophenyl phenyl ether			40.0	41.2		ug/L		103	25 - 158	2	15
4-Nitrophenol			80.0	47.1		ug/L		59	1 - 132	6	24
Acenaphthene			40.0	38.9		ug/L		97	47 - 145	4	25
Acenaphthylene			40.0	41.3		ug/L		103	33 - 145	3	22
Anthracene			40.0	43.7		ug/L		109	27 - 133	5	15
Benzidine			40.0	ND		ug/L		24	1 - 120	1	50
Benzo[a]anthracene			40.0	45.2		ug/L		113	33 - 143	4	15
Benzo[a]pyrene			40.0	42.7		ug/L		107	17 - 163	2	15
Benzo[b]fluoranthene			40.0	43.8		ug/L		110	24 - 159	5	17
Benzo[g,h,i]perylene			40.0	47.6		ug/L		119	1 - 219	4	19
Benzo[k]fluoranthene			40.0	41.7		ug/L		104	11 - 162	1	19
Bis(2-chloroethoxy)methane			40.0	38.1		ug/L		95	33 - 184	2	23
Bis(2-chloroethyl)ether			40.0	35.6		ug/L		89	12 - 158	2	33
Bis(2-ethylhexyl) phthalate			40.0	45.0		ug/L		113	8 - 158	7	15
Butyl benzyl phthalate			40.0	45.3		ug/L		113	1 - 152	6	15
Chrysene			40.0	45.0		ug/L		113	17 - 168	8	15
Di-n-butyl phthalate			40.0	43.5		ug/L		109	1 - 120	4	15
Di-n-octyl phthalate			40.0	46.8		ug/L		117	4 - 146	5	15
Dibenz(a,h)anthracene			40.0	45.0		ug/L		112	1 - 227	1	18
Diethyl phthalate			40.0	44.3		ug/L		111	1 - 120	3	15
Dimethyl phthalate			40.0	44.5		ug/L		111	1 - 120	2	15
Fluoranthene			40.0	44.5		ug/L		111	26 - 137	3	15
Fluorene			40.0	41.1		ug/L		103	59 - 121	1	18
Hexachlorobenzene			40.0	43.1		ug/L		108	1 - 152	6	15
Hexachlorocyclopentadiene			40.0	29.3		ug/L		73	5 - 120	7	50
Hexachloroethane			40.0	25.5		ug/L		64	40 - 120	4	43
Indeno[1,2,3-cd]pyrene			40.0	45.8		ug/L		114	1 - 171	3	17
Isophorone			40.0	43.7		ug/L		109	21 - 196	4	21
N-Nitrosodi-n-propylamine			40.0	41.5		ug/L		104	1 - 230	4	23
N-Nitrosodiphenylamine			40.0	43.1		ug/L		108	54 - 125	6	15
Naphthalene			40.0	34.6		ug/L		86	21 - 133	4	31
Nitrobenzene			40.0	40.5		ug/L		101	35 - 180	8	27
Pentachlorophenol			80.0	98.1		ug/L		123	14 - 176	10	21
Phenanthrene			40.0	41.5		ug/L		104	54 - 120	4	16
Phenol			40.0	19.2		ug/L		48	5 - 120	4	36
Pyrene			40.0	42.8		ug/L		107	52 - 120	6	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*113*		*52 - 151*
2-Fluorobiphenyl	*98*		*44 - 120*
2-Fluorophenol (Surr)	*58*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-734133/3-A
Matrix: Water
Analysis Batch: 734217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 734133

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*96*		*15 - 314*
p-Terphenyl-d14 (Surr)	*103*		*22 - 125*
Phenol-d5 (Surr)	*42*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-734162/1-A
Matrix: Water
Analysis Batch: 734339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		12/04/24 08:58	12/04/24 15:19	1

Lab Sample ID: LCS 480-734162/2-A
Matrix: Water
Analysis Batch: 734339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.536		mg/L		107	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-734335/1-A
Matrix: Water
Analysis Batch: 734466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		12/05/24 10:58	12/05/24 15:33	1

Lab Sample ID: LCS 480-734335/2-A
Matrix: Water
Analysis Batch: 734466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00646		mg/L		97	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-734484/21
Matrix: Water
Analysis Batch: 734484

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			12/05/24 15:50	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: HLCS 480-734484/22
Matrix: Water
Analysis Batch: 734484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.400	0.362		mg/L		91	90 - 110

Lab Sample ID: LCS 480-734484/23
Matrix: Water
Analysis Batch: 734484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.250	0.230		mg/L		92	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: 480-225895-6 DU
Matrix: Water
Analysis Batch: 735259

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	8.0		SU		1	5
Temperature	23.0	HF	22.9		Degrees C		0.4	10

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-225895-1

GC/MS VOA

Analysis Batch: 734237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-5	TRIP BLANK	Total/NA	WQ	624.1	
480-225895-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-734237/8	Method Blank	Total/NA	Water	624.1	
LCS 480-734237/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 734133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	625	
MB 480-734133/1-A	Method Blank	Total/NA	Water	625	
LCS 480-734133/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-734133/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 734217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	625.1	734133
MB 480-734133/1-A	Method Blank	Total/NA	Water	625.1	734133
LCS 480-734133/2-A	Lab Control Sample	Total/NA	Water	625.1	734133
LCSD 480-734133/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	734133

Metals

Prep Batch: 734162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-734162/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-734162/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 734335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-734335/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-734335/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 734339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-734162/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	734162
LCS 480-734162/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	734162

Analysis Batch: 734413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	734162

Analysis Batch: 734466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	245.1	734335
MB 480-734335/1-A	Method Blank	Total/NA	Water	245.1	734335
LCS 480-734335/2-A	Lab Control Sample	Total/NA	Water	245.1	734335

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-225895-1

General Chemistry

Analysis Batch: 734484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	335.4	
MB 480-734484/21	Method Blank	Total/NA	Water	335.4	
HLCS 480-734484/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-734484/23	Lab Control Sample	Total/NA	Water	335.4	

Analysis Batch: 735259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-225895-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	
480-225895-6 DU	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-225895-1
Project/Site: Monthly Discharge Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-225895-5
Date Collected: 12/03/24 00:00
Matrix: WQ
Date Received: 12/03/24 10:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	734237	AXK	EET BUF	12/04/24 15:50

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-225895-6
Date Collected: 12/03/24 10:42
Matrix: Water
Date Received: 12/03/24 10:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	734237	AXK	EET BUF	12/04/24 16:14
Total/NA	Prep	625			734133	LSC	EET BUF	12/03/24 14:23
Total/NA	Analysis	625.1		1	734217	JMM	EET BUF	12/04/24 13:57
Total/NA	Prep	200.7			734162	TC	EET BUF	12/04/24 08:58
Total/NA	Analysis	200.7 Rev 4.4		5	734413	BMB	EET BUF	12/05/24 11:29
Total/NA	Prep	245.1			734335	ESB	EET BUF	12/05/24 10:58
Total/NA	Analysis	245.1		1	734466	ESB	EET BUF	12/05/24 15:56
Total/NA	Analysis	335.4		1	734484	CLT	EET BUF	12/05/24 16:44
Total/NA	Analysis	SM 4500 H+ B		1	735259	IMZ	EET BUF	12/13/24 10:33

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-225895-1
Project/Site: Monthly Discharge Analysis

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-225895-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-225895-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-225895-5	TRIP BLANK	WQ	12/03/24 00:00	12/03/24 10:58
480-225895-6	001 LAB COMP	Water	12/03/24 10:42	12/03/24 10:58

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193798-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis US Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3
B - NaOH

480-225895 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total I	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	12/3/24	0442	G	Water			X	X	X	X	X	3	Lab To
001-2		0642		Water			X	X	X	X	X	3	Composite
001-3		0842					X	X	X	X	X	3	Samples
001-4		1042					X	X	X	X	X	3	
Trip Blank		—						X				2	
													Short Hold Time

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	12/3/24/1058	Arcadis	[signature]	12-3-24 1058	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.6 I CF IR #5(

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-225895-1

Login Number: 225895
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Attachment E

Flowmeter Certificate of Calibration

Certificate of Calibration

PULSAFEEDER®



Install Date:
12/5/2024

Company Name: Grainger
Address:ACCOUNTS PAYABLE
DEPARTMENT
MW-H11
PALATINE, IL 60038

Part Number	Item Description	Serial Number
MTR304-G	N L MTR,1.0” NPT, 50GPM, 1.0GPC	24000057-NL



This is to affirm that the following electronic contacting Multi-Jet water meter was tested in accordance with American Water Works Association Specifications C708 and achieved accuracy results +/- 1 ½%. The meter calibration is good for 1 year from the date of install

PULSAFEEDER®

27101 Airport Road
Punta Gorda, FL 33982
Phone: 941-575-3800
www.pulsatron.com

Ms. Elizabeth Scheeler
Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, NY 14213-1799

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse, NY 13202
United States
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: March 31, 2025
Our Ref: 30185775
Subject: **Discharge Monitoring Report – First Quarter 2025**
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY 14213
BSA Discharge Permit # 21-07-BU174

Dear Ms. Scheeler,

On behalf of Bristol-Myers Squibb Company, Arcadis of New York, Inc. (Arcadis) is pleased to submit this first quarter 2025 Discharge Monitoring Report (DMR) for the above-referenced site, which covers January 1 to March 31, 2025. The monthly discharge sampling and DMR preparation were completed in accordance with the Buffalo Sewer Authority (BSA) Sampling Measurement and Analytical Guidelines Sheet. A total of 72,131 gallons of water were discharged during the reporting period (i.e., flow meter totalizer readings from 12/24/2024 to 3/26/2025). Laboratory analytical results indicate that the remedial system operated within BSA permit requirements during the first quarter of 2025.

The sampling protocol and calculated discharges are based on the following: (1) total flows are a daily average taken over approximately 7 days; and (2) monthly composite samples are collected over an 8-hour period, where grab samples are collected every 2 hours. A total of 4 grab samples are collected throughout the 8-hour period. The discharge sample point location, following carbon treatment, is labeled as “C001 Sample Location” on the Process Flow Diagram (**Attachment A**). The Sample Collection and Log Sheets for the January 3, February 5, and March 5, 2025 monthly sampling events are provided in **Attachment B**.

The monthly grab samples were submitted to Eurofins TestAmerica in Amherst, New York, where samples are composited and analyzed for pH via Method 4500 H+B, Total Mercury via United States Environmental Protection Agency (EPA) Method 245.1, Total Zinc via EPA Method 200.7, Total Cyanide via EPA Method 335.4, Volatile Organic Compounds via EPA Method 624.1, and Semi-Volatile Organic Compounds via EPA Method 625.1.

Laboratory analytical results and average daily flows are provided in the Quarterly Analytical Data Table (**Attachment C**). No exceedances of Daily Maximum or Maximum Allowable Instantaneous Discharge Limitations were observed during the reporting period. BSA Permit Specific Conditions require reporting of any compounds analyzed by EPA Methods 624 and 625 that are detected at a concentration above a threshold of 0.01 milligrams per liter (mg/L). In January, February, and March 2025, there were no detections above the reporting threshold. The laboratory analytical data packages are provided in **Attachment D**.

If you have any questions or would like to discuss further, please feel free to contact the undersigned.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.

Signed on behalf of Bristol-Myers Squibb Company and submitted by:

Vincent S. Maresco
Arcadis of New York, Inc.
Project Manager

Email: Vin.Maresco@arcadis.com
Direct Line: 315 671 9256

cc: Traserra Adams, BSA (electronic copy)
Richard Mator, BMS (electronic copy)
John Alonzo, de maximis, inc. (electronic copy)
Michael Hecker, Hodgson Russ LLP (electronic copy)

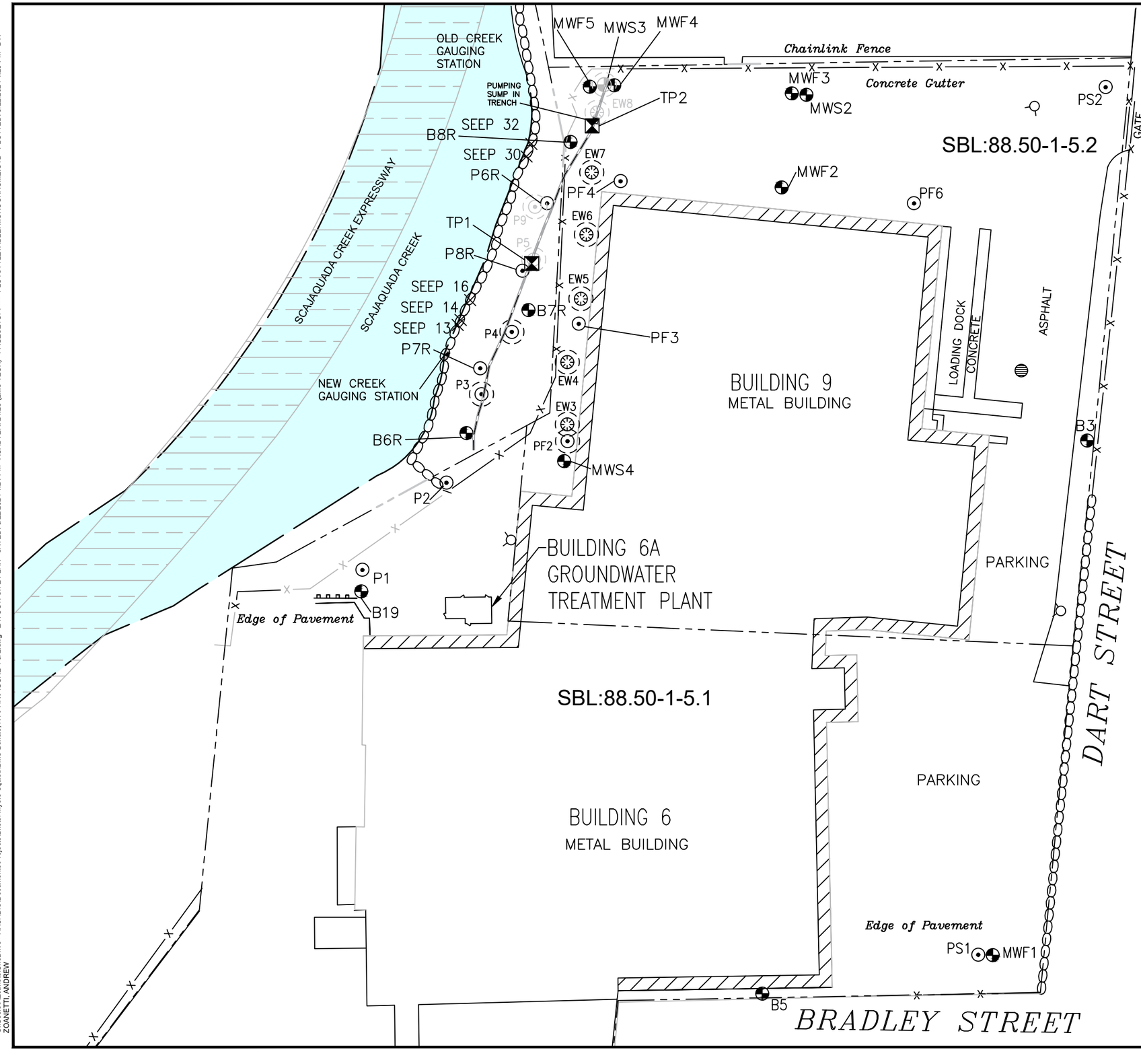
Attachments:

- A Site Plan and Process Flow Diagram
- B Sample Collection and Log Sheets for Monthly Sampling Events
- C Quarterly Analytical Data Table
- D Laboratory Analytical Data Packages

Attachment A

Site Plan and Process Flow Diagram

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV DB: L.POSENAUER PMTM: M.BENOIT LYR:(Opt)ON=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\FIGURE 1 & 2.dwg LAYOUT: SITE PLAN SAVED: 5/22/2024 1:21 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: MONOCHROME.CTB PLOTTED: 5/22/2024 1:25 PM BY:
ZOANETTI, ANDREW



LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP

NOTE:

1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

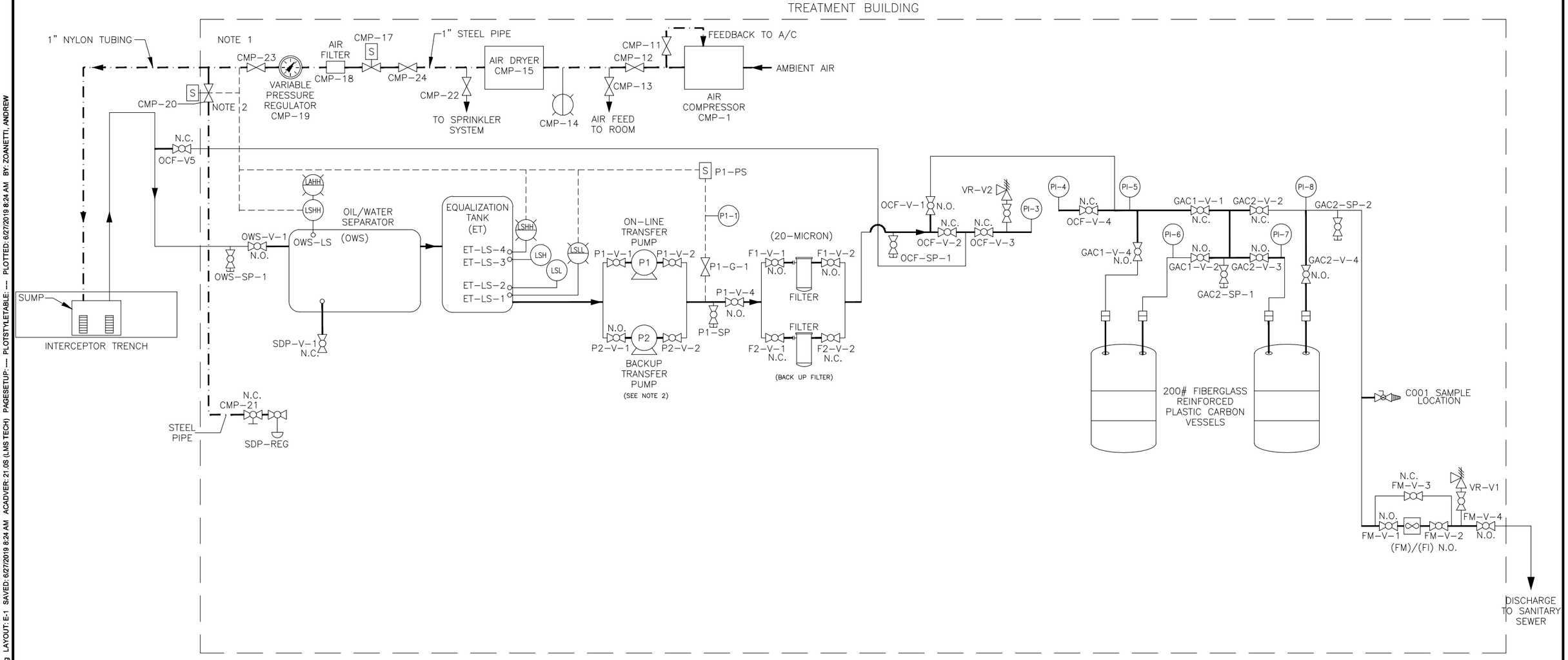
0 100' 200'

GRAPHIC SCALE

BRISTOL-MYERS SQUIBB COMPANY
IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE
CITY OF BUFFALO, ERIE COUNTY, NEW YORK

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets



NOTES:

1. SOLENOID VALVE IS ACTIVATED TO THE OFF-POSITION UNDER ANY OF THE FOLLOWING CONDITIONS:
   a) LSHH AT THE OIL-WATER SEPARATOR;
   b) LSHH AT THE EQUILIZATION TANK IS ACTIVATED;
   c) P1-PS HIGH PUMP DISCHARGE PRESSURE SWISWITCH IS ACTIVATED.

2. USE OF TRANSFER PUMPS IS ALTERED ON A QUARTERLY BASIS.

CITY: SYRACUSE, NY DIV/GROUP: DB: PM: TM: LYR:ON=*;OFF=*REF*
C:\Users\AZoianetti\Documents\Bristol-Myers Squibb\BMS Buffalo, NY\ATTACHMENT A.dwg LAYOUT: E-1 SAVED: 6/27/2019 8:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 6/27/2019 8:24 AM BY: ZOANETTI, ANDREW
XREFS:
TITLE

SCALE(S) AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Professional Engineer's Name

Professional Engineer's No.

State	Date Signed	Project Mgr.
Designed by	Drawn by	Checked by

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

IROQUOIS GAS/WESTWOOD PHARMACEUTICALS TERRESTRIAL SITE NO. 915141A
120 DART STREET AND 40 BRADLEY STREET, BUFFALO, NY

PROCESS FLOW DIAGRAM

ARCADIS Project No.
B0087370.0000.00001

Date
SEPTEMBER 2017

ARCADIS
ARCADIS OF NEW YORK, INC.
110 W. FAYETTE ST., STE 300
SYRACUSE, NY 13202
TEL. 315.446.9120

PFD

Attachment B

Sample Collection and Log Sheets for Monthly Sampling Events

Facility/Project site name	Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
Location	120 Dart Street and 40 Bradley Street, City of Buffalo,
County/State	Erie County, New York
Date	January 2, 2025
Time	13:56
Operator	Jason Gutkowski
Select Inspection List	Monthly Inspections List

Monthly Sample Collection

Sample Location	001
Sample Type	Monthly, Discharge
Parameters	pH, Total Mercury, Total Cyanide, EPA Test Procedure 625
Sampling Equipment	Manual
Sample Volume	One 1L amber unpreserved glass bottle, and two 40mL clear vials, every two hours

Sample collection details (4 Items)

Sample collection details - 1. 06:44, Clear, 7.54, Cloudy, 28

Sample Time	06:44
Sample Observations	Clear
Field pH Measurement	7.54
Weather	Cloudy
Air Temperature (°F)	28
Comments	None

Sample collection details - 2. 08:44, Clear, 7.38, Cloudy, 28

Sample Time	08:44
Sample Observations	Clear
Field pH Measurement	7.38
Weather	Cloudy
Air Temperature (°F)	28
Comments	None

Sample collection details - 3. 10:44, Clear, 7.47, Cloudy, 29

Sample Time	10:44
Sample Observations	Clear
Field pH Measurement	7.47
Weather	Cloudy
Air Temperature (°F)	29
Comments	None

Sample collection details - 4. 12:44, Clear, 7.45, Cloudy, 31

Sample Time	12:44
Sample Observations	Clear
Field pH Measurement	7.45
Weather	Cloudy
Air Temperature (°F)	31
Comments	None

Facility/Project site name	Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
Location	120 Dart Street and 40 Bradley Street, City of Buffalo,
County/State	Erie County, New York
Date	February 5, 2025
Time	13:00
Operator	Jason Gutkowski
Select Inspection List	Monthly Inspections List

Monthly Sample Collection

Sample Location	001
Sample Type	Monthly, Discharge
Parameters	pH, Total Mercury, Total Cyanide, EPA Test Procedure 625
Sampling Equipment	Manual
Sample Volume	One 1L amber unpreserved glass bottle, and two 40mL clear vials, every two hours

Sample collection details (4 Items)

Sample collection details - 1. 06:50, Clear, 7.29, Overcast, 15

Sample Time	06:50
Sample Observations	Clear
Field pH Measurement	7.29
Weather	Overcast
Air Temperature (°F)	15
Comments	None

Sample collection details - 2. 08:50, Clear, 7.4, Overcast, 17

Sample Time	08:50
Sample Observations	Clear
Field pH Measurement	7.4
Weather	Overcast
Air Temperature (°F)	17
Comments	None

Sample collection details - 3. 10:50, Clear, 7.33, Snow, 22

Sample Time	10:50
Sample Observations	Clear
Field pH Measurement	7.33
Weather	Snow
Air Temperature (°F)	22
Comments	None

Sample collection details - 4. 12:50, Clear, 7.38, Overcast, 28

Sample Time	12:50
Sample Observations	Clear
Field pH Measurement	7.38
Weather	Overcast
Air Temperature (°F)	28
Comments	None

Facility/Project site name	Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
Location	120 Dart Street and 40 Bradley Street, City of Buffalo,
County/State	Erie County, New York
Date	March 5, 2025
Time	13:21
Operator	Jason Gutkowski
Select Inspection List	Monthly Inspections List

Monthly Sample Collection

Sample Location	001
Sample Type	Monthly, Discharge
Parameters	pH, Total Mercury, Total Cyanide, EPA Test Procedure 625
Sampling Equipment	Manual
Sample Volume	One 1L amber unpreserved glass bottle, and two 40mL clear vials, every two hours

Sample collection details (4 Items)

Sample collection details - 1. 07:15, Clear, 7.41, Heavy Rain, 45

Sample Time	07:15
Sample Observations	Clear
Field pH Measurement	7.41
Weather	Heavy Rain
Air Temperature (°F)	45
Comments	None

Sample collection details - 2. 09:15, Clear, 7.3, Heavy Rain, 48

Sample Time	09:15
Sample Observations	Clear
Field pH Measurement	7.3
Weather	Heavy Rain
Air Temperature (°F)	48
Comments	None

Sample collection details - 3. 11:15, Clear, 7.38, Light Rain, 52

Sample Time	11:15
Sample Observations	Clear
Field pH Measurement	7.38
Weather	Light Rain
Air Temperature (°F)	52
Comments	None

Sample collection details - 4. 13:15, Clear, 7.35, Overcast, 55

Sample Time	13:15
Sample Observations	Clear
Field pH Measurement	7.35
Weather	Overcast
Air Temperature (°F)	55
Comments	None

Attachment C

Quarterly Analytical Data Table

Quarterly Analytical Data Table
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY

ARCADIS

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	12/24/2024	1/3/2025	1/8/2025	1/16/2025	1/22/2025	1/29/2025	2/5/2025
Totalizer	gal	NA	1,811,810	1,819,091	1,823,895	1,829,860	1,835,271	1,840,738	1,846,000
Total Mercury	lbs	0.00001**	NS	ND	NS	NS	NS	NS	ND
Total Zinc	lbs	3.0**	NS	ND L	NS	NS	NS	NS	1.88E-04
Total Cyanide	lbs	7.93**	NS	9.43E-04	NS	NS	NS	NS	7.51E-04
Total VOCs	mg/L	NA	NS	ND	NS	NS	NS	NS	ND
Total SVOCs	mg/L	NA	NS	ND	NS	NS	NS	NS	ND*-
pH	SU	5.0-12.0	NS	7.1 HF	NS	NS	NS	NS	7.3 HF
Total Daily Flow	gal	14,400	793	809	801	746	902	781	752

Sampling Parameter	Units	Daily Maximum Limit per BSA Permit	2/10/2025	2/18/2025	2/25/2025	3/5/2025	3/12/2025	3/18/2025	3/26/2025
Totalizer	gal	NA	1,849,920	1,855,772	1,861,552	1,868,080	1,873,463	1,877,901	1,883,941
Total Mercury	lbs	0.00001**	NS	NS	NS	ND	NS	NS	NS
Total Zinc	lbs	3.0**	NS	NS	NS	ND	NS	NS	NS
Total Cyanide	lbs	7.93**	NS	NS	NS	1.09E-03 B	NS	NS	NS
Total VOCs	mg/L	NA	NS	NS	NS	ND	NS	NS	NS
Total SVOCs	mg/L	NA	NS	NS	NS	ND F1 F2	NS	NS	NS
pH	SU	5.0-12.0	NS	NS	NS	7.2 HF	NS	NS	NS
Total Daily Flow	gal	14,400	784	732	826	816	769	740	755

Notes:

B = Compound was found in the blank and the sample.
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at clients request. Analytical performed as required and in compliance by BSA permit.
F1 = MS and/or MSD Recovery is outside acceptance limits.
F2 = MS/MSD RPD exceeds control limits.
*+ = LCS and/or LCSD is outside acceptance limits, high biased.
*- = LCS and/or LCSD is outside acceptance limits, low biased.
L = A negative instrument reading had an absolute value greater than the reporting limit.
NA = Not Applicable
ND = Not Detected at the reporting limit
NS = Not Sampled
gal = Gallons
lbs = Pounds
mg/L = Milligrams per liter
SU = Standard Units
** = Maximum Allowable Instantaneous Discharge limits are also included in the permit. All analytical data for this quarter in in compliance with the Maximum Allowable Instantaneous Discharge limits. Analytical results are not presented in this table, they can be found in the attached analytical reports.

The permittee must report any compound whose concentration is greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated 'by this test procedure, which may cause or contribute to a violation of water quality incorporated into the permit.

Start of quarter values

Attachment D

Laboratory Analytical Data Packages

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 1/8/2025 8:59:57 AM

JOB DESCRIPTION

Monthly Discharge Analysis
Monthly Testing

JOB NUMBER

480-226589-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
1/8/2025 8:59:57 AM

Authorized for release by
Gale Prinster, Project Mgmt. Assistant
gale.prinster@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 20
Lab Chronicle 22
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-226589-1 Eurofins Buffalo

Job Narrative
480-226589-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/3/2025 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C.

GC/MS VOA
Method 624.1_PREC: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: TRIP BLANK (480-226589-5) and 001 LAB COMP (480-226589-6).

Method 624.1_PREC: The following Volatile sample was composited by the laboratory on 01/03/2025 as requested by the client: 001 LAB COMP (480-226589-6). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-736510.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.7: The absolute response for total Zinc was greater than the method reporting limit (RL) in the following sample: 001 LAB COMP (480-226589-6). The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-226589-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-226589-5

No Detections.

Client Sample ID: 001 LAB COMP — Lab Sample ID: 480-226589-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.14		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	20.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

Client Sample ID: TRIP BLANK

Date Collected: 01/02/25 00:00
Date Received: 01/03/25 13:00

Lab Sample ID: 480-226589-5

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/03/25 16:18	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/03/25 16:18	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/03/25 16:18	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/03/25 16:18	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/03/25 16:18	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/03/25 16:18	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/03/25 16:18	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/03/25 16:18	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/03/25 16:18	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/03/25 16:18	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/03/25 16:18	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/03/25 16:18	1
Acrolein	ND		100	17	ug/L			01/03/25 16:18	1
Acrylonitrile	ND		50	1.9	ug/L			01/03/25 16:18	1
Benzene	ND		5.0	0.60	ug/L			01/03/25 16:18	1
Bromoform	ND		5.0	0.47	ug/L			01/03/25 16:18	1
Bromomethane	ND		5.0	1.2	ug/L			01/03/25 16:18	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/03/25 16:18	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/03/25 16:18	1
Dibromochloromethane	ND		5.0	0.41	ug/L			01/03/25 16:18	1
Chloroethane	ND		5.0	0.87	ug/L			01/03/25 16:18	1
Chloroform	ND		5.0	0.54	ug/L			01/03/25 16:18	1
Chloromethane	ND		5.0	0.64	ug/L			01/03/25 16:18	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/03/25 16:18	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/03/25 16:18	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			01/03/25 16:18	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/03/25 16:18	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/03/25 16:18	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/03/25 16:18	1
Toluene	ND		5.0	0.45	ug/L			01/03/25 16:18	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/03/25 16:18	1
Trichloroethene	ND		5.0	0.60	ug/L			01/03/25 16:18	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			01/03/25 16:18	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/03/25 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 130*		*01/03/25 16:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*01/03/25 16:18*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*01/03/25 16:18*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*01/03/25 16:18*	*1*

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-226589-6

Date Collected: 01/03/25 00:00
Matrix: Water
Date Received: 01/03/25 13:00

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/03/25 16:42	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/03/25 16:42	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/03/25 16:42	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/03/25 16:42	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/03/25 16:42	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/03/25 16:42	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/03/25 16:42	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/03/25 16:42	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/03/25 16:42	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/03/25 16:42	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/03/25 16:42	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/03/25 16:42	1
Acrolein	ND		100	17	ug/L			01/03/25 16:42	1
Acrylonitrile	ND		50	1.9	ug/L			01/03/25 16:42	1
Benzene	ND		5.0	0.60	ug/L			01/03/25 16:42	1
Bromoform	ND		5.0	0.47	ug/L			01/03/25 16:42	1
Bromomethane	ND		5.0	1.2	ug/L			01/03/25 16:42	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/03/25 16:42	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/03/25 16:42	1
Dibromochloromethane	ND		5.0	0.41	ug/L			01/03/25 16:42	1
Chloroethane	ND		5.0	0.87	ug/L			01/03/25 16:42	1
Chloroform	ND		5.0	0.54	ug/L			01/03/25 16:42	1
Chloromethane	ND		5.0	0.64	ug/L			01/03/25 16:42	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/03/25 16:42	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/03/25 16:42	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			01/03/25 16:42	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/03/25 16:42	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/03/25 16:42	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/03/25 16:42	1
Toluene	ND		5.0	0.45	ug/L			01/03/25 16:42	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/03/25 16:42	1
Trichloroethene	ND		5.0	0.60	ug/L			01/03/25 16:42	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			01/03/25 16:42	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/03/25 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 130*		*01/03/25 16:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*01/03/25 16:42*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*01/03/25 16:42*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*01/03/25 16:42*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11	0.23	ug/L		01/03/25 13:33	01/06/25 12:32	1
1,2-Dichlorobenzene	ND		11	0.29	ug/L		01/03/25 13:33	01/06/25 12:32	1
1,2-Diphenylhydrazine	ND		11	0.22	ug/L		01/03/25 13:33	01/06/25 12:32	1
1,3-Dichlorobenzene	ND		11	0.19	ug/L		01/03/25 13:33	01/06/25 12:32	1
1,4-Dichlorobenzene	ND		11	0.23	ug/L		01/03/25 13:33	01/06/25 12:32	1
2,2'-Oxybis(1-chloropropane)	ND		5.6	0.23	ug/L		01/03/25 13:33	01/06/25 12:32	1
2,4,6-Trichlorophenol	ND		5.6	0.28	ug/L		01/03/25 13:33	01/06/25 12:32	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

Client Sample ID: 001 LAB COMP
Date Collected: 01/03/25 00:00
Date Received: 01/03/25 13:00

Lab Sample ID: 480-226589-6
Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.6	0.21	ug/L		01/03/25 13:33	01/06/25 12:32	1
2,4-Dimethylphenol	ND		5.6	0.39	ug/L		01/03/25 13:33	01/06/25 12:32	1
2,4-Dinitrophenol	ND		11	1.4	ug/L		01/03/25 13:33	01/06/25 12:32	1
2,4-Dinitrotoluene	ND		11	0.45	ug/L		01/03/25 13:33	01/06/25 12:32	1
2,6-Dinitrotoluene	ND		5.6	0.28	ug/L		01/03/25 13:33	01/06/25 12:32	1
2-Chloronaphthalene	ND		5.6	0.25	ug/L		01/03/25 13:33	01/06/25 12:32	1
2-Chlorophenol	ND		5.6	0.18	ug/L		01/03/25 13:33	01/06/25 12:32	1
2-Nitrophenol	ND		5.6	0.19	ug/L		01/03/25 13:33	01/06/25 12:32	1
3,3'-Dichlorobenzidine	ND		5.6	0.44	ug/L		01/03/25 13:33	01/06/25 12:32	1
4,6-Dinitro-2-methylphenol	ND		11	0.50	ug/L		01/03/25 13:33	01/06/25 12:32	1
4-Bromophenyl phenyl ether	ND		5.6	0.39	ug/L		01/03/25 13:33	01/06/25 12:32	1
4-Chloro-3-methylphenol	ND		5.6	0.31	ug/L		01/03/25 13:33	01/06/25 12:32	1
4-Chlorophenyl phenyl ether	ND		5.6	0.36	ug/L		01/03/25 13:33	01/06/25 12:32	1
4-Nitrophenol	ND		17	0.54	ug/L		01/03/25 13:33	01/06/25 12:32	1
Acenaphthene	ND		5.6	0.23	ug/L		01/03/25 13:33	01/06/25 12:32	1
Acenaphthylene	ND		5.6	0.24	ug/L		01/03/25 13:33	01/06/25 12:32	1
Anthracene	ND		5.6	0.39	ug/L		01/03/25 13:33	01/06/25 12:32	1
Benzidine	ND		89	15	ug/L		01/03/25 13:33	01/06/25 12:32	1
Benzo[a]anthracene	ND		5.6	0.31	ug/L		01/03/25 13:33	01/06/25 12:32	1
Benzo[a]pyrene	ND		5.6	0.36	ug/L		01/03/25 13:33	01/06/25 12:32	1
Benzo[b]fluoranthene	ND		5.6	0.33	ug/L		01/03/25 13:33	01/06/25 12:32	1
Benzo[g,h,i]perylene	ND		5.6	0.42	ug/L		01/03/25 13:33	01/06/25 12:32	1
Benzo[k]fluoranthene	ND		5.6	0.36	ug/L		01/03/25 13:33	01/06/25 12:32	1
Bis(2-chloroethoxy)methane	ND		5.6	0.21	ug/L		01/03/25 13:33	01/06/25 12:32	1
Bis(2-chloroethyl)ether	ND		5.6	0.26	ug/L		01/03/25 13:33	01/06/25 12:32	1
Bis(2-ethylhexyl) phthalate	ND		11	0.33	ug/L		01/03/25 13:33	01/06/25 12:32	1
Butyl benzyl phthalate	ND		5.6	0.31	ug/L		01/03/25 13:33	01/06/25 12:32	1
Chrysene	ND		5.6	0.28	ug/L		01/03/25 13:33	01/06/25 12:32	1
Decane	ND		11	0.44	ug/L		01/03/25 13:33	01/06/25 12:32	1
Di-n-butyl phthalate	ND		5.6	0.44	ug/L		01/03/25 13:33	01/06/25 12:32	1
Di-n-octyl phthalate	ND		5.6	0.33	ug/L		01/03/25 13:33	01/06/25 12:32	1
Dibenz(a,h)anthracene	ND		5.6	0.42	ug/L		01/03/25 13:33	01/06/25 12:32	1
Diethyl phthalate	ND		5.6	0.28	ug/L		01/03/25 13:33	01/06/25 12:32	1
Dimethyl phthalate	ND		5.6	0.25	ug/L		01/03/25 13:33	01/06/25 12:32	1
Fluoranthene	ND		5.6	0.44	ug/L		01/03/25 13:33	01/06/25 12:32	1
Fluorene	ND		5.6	0.28	ug/L		01/03/25 13:33	01/06/25 12:32	1
Hexachlorobenzene	ND		5.6	0.28	ug/L		01/03/25 13:33	01/06/25 12:32	1
Hexachlorobutadiene	ND		5.6	0.28	ug/L		01/03/25 13:33	01/06/25 12:32	1
Hexachlorocyclopentadiene	ND		11	0.59	ug/L		01/03/25 13:33	01/06/25 12:32	1
Hexachloroethane	ND		5.6	0.17	ug/L		01/03/25 13:33	01/06/25 12:32	1
Indeno[1,2,3-cd]pyrene	ND		5.6	0.42	ug/L		01/03/25 13:33	01/06/25 12:32	1
Isophorone	ND		5.6	0.21	ug/L		01/03/25 13:33	01/06/25 12:32	1
N-Nitrosodi-n-propylamine	ND		5.6	0.25	ug/L		01/03/25 13:33	01/06/25 12:32	1
N-Nitrosodimethylamine	ND		11	0.16	ug/L		01/03/25 13:33	01/06/25 12:32	1
N-Nitrosodiphenylamine	ND		5.6	0.23	ug/L		01/03/25 13:33	01/06/25 12:32	1
Naphthalene	ND		5.6	0.24	ug/L		01/03/25 13:33	01/06/25 12:32	1
Nitrobenzene	ND		5.6	0.23	ug/L		01/03/25 13:33	01/06/25 12:32	1
Pentachlorophenol	ND		11	0.87	ug/L		01/03/25 13:33	01/06/25 12:32	1
Phenanthrene	ND		5.6	0.33	ug/L		01/03/25 13:33	01/06/25 12:32	1

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-226589-6

Date Collected: 01/03/25 00:00
Matrix: Water
Date Received: 01/03/25 13:00

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.6	0.097	ug/L		01/03/25 13:33	01/06/25 12:32	1
Pyrene	ND		5.6	0.39	ug/L		01/03/25 13:33	01/06/25 12:32	1
n-Octadecane	ND		11	0.33	ug/L		01/03/25 13:33	01/06/25 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*52 - 151*	*01/03/25 13:33*	*01/06/25 12:32*	*1*
2-Fluorobiphenyl	*96*		*44 - 120*	*01/03/25 13:33*	*01/06/25 12:32*	*1*
2-Fluorophenol (Surr)	*59*		*17 - 120*	*01/03/25 13:33*	*01/06/25 12:32*	*1*
Nitrobenzene-d5 (Surr)	*98*		*15 - 314*	*01/03/25 13:33*	*01/06/25 12:32*	*1*
p-Terphenyl-d14 (Surr)	*89*		*22 - 125*	*01/03/25 13:33*	*01/06/25 12:32*	*1*
Phenol-d5 (Surr)	*43*		*8 - 424*	*01/03/25 13:33*	*01/06/25 12:32*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND	L	0.010	0.0068	mg/L		01/06/25 08:01	01/06/25 14:30	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		01/07/25 08:52	01/07/25 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.14**		0.010	0.0041	mg/L			01/05/25 19:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1	0.1	SU			01/06/25 10:52	1
Temperature (SM 4500 H+ B)	**20.6**	**HF**	0.001	0.001	Degrees C			01/06/25 10:52	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-226589-6	001 LAB COMP	107	102	99	102
LCS 480-736491/6	Lab Control Sample	99	101	97	97
MB 480-736491/8	Method Blank	101	101	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-226589-5	TRIP BLANK	107	102	98	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-226589-6	001 LAB COMP	91	96	59	98	89	43
LCS 480-736510/2-A	Lab Control Sample	109	95	61	101	103	42
LCSD 480-736510/3-A	Lab Control Sample Dup	113	94	55	100	102	40
MB 480-736510/1-A	Method Blank	91	93	53	98	96	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-736491/8
Matrix: Water
Analysis Batch: 736491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/03/25 13:28	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/03/25 13:28	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/03/25 13:28	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/03/25 13:28	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/03/25 13:28	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/03/25 13:28	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/03/25 13:28	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/03/25 13:28	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/03/25 13:28	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/03/25 13:28	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/03/25 13:28	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/03/25 13:28	1
Acrolein	ND		100	17	ug/L			01/03/25 13:28	1
Acrylonitrile	ND		50	1.9	ug/L			01/03/25 13:28	1
Benzene	ND		5.0	0.60	ug/L			01/03/25 13:28	1
Bromoform	ND		5.0	0.47	ug/L			01/03/25 13:28	1
Bromomethane	ND		5.0	1.2	ug/L			01/03/25 13:28	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/03/25 13:28	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/03/25 13:28	1
Dibromochloromethane	ND		5.0	0.41	ug/L			01/03/25 13:28	1
Chloroethane	ND		5.0	0.87	ug/L			01/03/25 13:28	1
Chloroform	ND		5.0	0.54	ug/L			01/03/25 13:28	1
Chloromethane	ND		5.0	0.64	ug/L			01/03/25 13:28	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/03/25 13:28	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/03/25 13:28	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			01/03/25 13:28	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/03/25 13:28	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/03/25 13:28	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/03/25 13:28	1
Toluene	ND		5.0	0.45	ug/L			01/03/25 13:28	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/03/25 13:28	1
Trichloroethene	ND		5.0	0.60	ug/L			01/03/25 13:28	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			01/03/25 13:28	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/03/25 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*01/03/25 13:28*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*01/03/25 13:28*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*01/03/25 13:28*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*01/03/25 13:28*	*1*

Lab Sample ID: LCS 480-736491/6
Matrix: Water
Analysis Batch: 736491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	15.3		ug/L		76	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	16.7		ug/L		83	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-736491/6
Matrix: Water
Analysis Batch: 736491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	16.8		ug/L		84	52 - 150
1,1-Dichloroethane	20.0	15.5		ug/L		78	59 - 155
1,1-Dichloroethene	20.0	15.3		ug/L		76	1 - 234
1,2-Dichlorobenzene	20.0	16.7		ug/L		84	18 - 190
1,2-Dichloroethane	20.0	17.2		ug/L		86	49 - 155
1,2-Dichloropropane	20.0	16.6		ug/L		83	1 - 210
1,3-Dichlorobenzene	20.0	16.9		ug/L		84	59 - 156
1,4-Dichlorobenzene	20.0	17.1		ug/L		85	18 - 190
2-Chloroethyl vinyl ether	20.0	18.6	J	ug/L		93	1 - 305
Benzene	20.0	16.4		ug/L		82	37 - 151
Bromoform	20.0	17.9		ug/L		89	45 - 169
Bromomethane	20.0	23.4		ug/L		117	1 - 242
Carbon tetrachloride	20.0	14.9		ug/L		74	70 - 140
Chlorobenzene	20.0	16.8		ug/L		84	37 - 160
Dibromochloromethane	20.0	17.5		ug/L		88	53 - 149
Chloroethane	20.0	19.5		ug/L		97	14 - 230
Chloroform	20.0	17.1		ug/L		86	51 - 138
Chloromethane	20.0	23.1		ug/L		115	1 - 273
cis-1,3-Dichloropropene	20.0	17.0		ug/L		85	1 - 227
Bromodichloromethane	20.0	17.6		ug/L		88	35 - 155
Ethylbenzene	20.0	16.6		ug/L		83	37 - 162
Methylene Chloride	20.0	16.1		ug/L		81	1 - 221
Tetrachloroethene	20.0	16.6		ug/L		83	64 - 148
Toluene	20.0	16.4		ug/L		82	47 - 150
trans-1,3-Dichloropropene	20.0	16.3		ug/L		82	17 - 183
Trichloroethene	20.0	17.0		ug/L		85	71 - 157
Trichlorofluoromethane	20.0	21.7		ug/L		109	17 - 181
Vinyl chloride	20.0	20.4		ug/L		102	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*97*		*77 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-736510/1-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		01/03/25 13:33	01/06/25 10:55	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		01/03/25 13:33	01/06/25 10:55	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		01/03/25 13:33	01/06/25 10:55	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		01/03/25 13:33	01/06/25 10:55	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		01/03/25 13:33	01/06/25 10:55	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		01/03/25 13:33	01/06/25 10:55	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		01/03/25 13:33	01/06/25 10:55	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-736510/1-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		01/03/25 13:33	01/06/25 10:55	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		01/03/25 13:33	01/06/25 10:55	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		01/03/25 13:33	01/06/25 10:55	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		01/03/25 13:33	01/06/25 10:55	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		01/03/25 13:33	01/06/25 10:55	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		01/03/25 13:33	01/06/25 10:55	1
2-Chlorophenol	ND		5.0	0.17	ug/L		01/03/25 13:33	01/06/25 10:55	1
2-Nitrophenol	ND		5.0	0.18	ug/L		01/03/25 13:33	01/06/25 10:55	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		01/03/25 13:33	01/06/25 10:55	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		01/03/25 13:33	01/06/25 10:55	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		01/03/25 13:33	01/06/25 10:55	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		01/03/25 13:33	01/06/25 10:55	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		01/03/25 13:33	01/06/25 10:55	1
4-Nitrophenol	ND		15	0.49	ug/L		01/03/25 13:33	01/06/25 10:55	1
Acenaphthene	ND		5.0	0.20	ug/L		01/03/25 13:33	01/06/25 10:55	1
Acenaphthylene	ND		5.0	0.22	ug/L		01/03/25 13:33	01/06/25 10:55	1
Anthracene	ND		5.0	0.35	ug/L		01/03/25 13:33	01/06/25 10:55	1
Benzidine	ND		80	14	ug/L		01/03/25 13:33	01/06/25 10:55	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		01/03/25 13:33	01/06/25 10:55	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		01/03/25 13:33	01/06/25 10:55	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		01/03/25 13:33	01/06/25 10:55	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		01/03/25 13:33	01/06/25 10:55	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		01/03/25 13:33	01/06/25 10:55	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		01/03/25 13:33	01/06/25 10:55	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		01/03/25 13:33	01/06/25 10:55	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		01/03/25 13:33	01/06/25 10:55	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		01/03/25 13:33	01/06/25 10:55	1
Chrysene	ND		5.0	0.25	ug/L		01/03/25 13:33	01/06/25 10:55	1
Decane	ND		10	0.40	ug/L		01/03/25 13:33	01/06/25 10:55	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		01/03/25 13:33	01/06/25 10:55	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		01/03/25 13:33	01/06/25 10:55	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		01/03/25 13:33	01/06/25 10:55	1
Diethyl phthalate	ND		5.0	0.25	ug/L		01/03/25 13:33	01/06/25 10:55	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		01/03/25 13:33	01/06/25 10:55	1
Fluoranthene	ND		5.0	0.40	ug/L		01/03/25 13:33	01/06/25 10:55	1
Fluorene	ND		5.0	0.25	ug/L		01/03/25 13:33	01/06/25 10:55	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		01/03/25 13:33	01/06/25 10:55	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		01/03/25 13:33	01/06/25 10:55	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		01/03/25 13:33	01/06/25 10:55	1
Hexachloroethane	ND		5.0	0.15	ug/L		01/03/25 13:33	01/06/25 10:55	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		01/03/25 13:33	01/06/25 10:55	1
Isophorone	ND		5.0	0.19	ug/L		01/03/25 13:33	01/06/25 10:55	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		01/03/25 13:33	01/06/25 10:55	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		01/03/25 13:33	01/06/25 10:55	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		01/03/25 13:33	01/06/25 10:55	1
Naphthalene	ND		5.0	0.22	ug/L		01/03/25 13:33	01/06/25 10:55	1
Nitrobenzene	ND		5.0	0.20	ug/L		01/03/25 13:33	01/06/25 10:55	1
Pentachlorophenol	ND		10	0.79	ug/L		01/03/25 13:33	01/06/25 10:55	1
Phenanthrene	ND		5.0	0.30	ug/L		01/03/25 13:33	01/06/25 10:55	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-736510/1-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		01/03/25 13:33	01/06/25 10:55	1
Pyrene	ND		5.0	0.35	ug/L		01/03/25 13:33	01/06/25 10:55	1
n-Octadecane	ND		10	0.30	ug/L		01/03/25 13:33	01/06/25 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*52 - 151*	*01/03/25 13:33*	*01/06/25 10:55*	*1*
2-Fluorobiphenyl	*93*		*44 - 120*	*01/03/25 13:33*	*01/06/25 10:55*	*1*
2-Fluorophenol (Surr)	*53*		*17 - 120*	*01/03/25 13:33*	*01/06/25 10:55*	*1*
Nitrobenzene-d5 (Surr)	*98*		*15 - 314*	*01/03/25 13:33*	*01/06/25 10:55*	*1*
p-Terphenyl-d14 (Surr)	*96*		*22 - 125*	*01/03/25 13:33*	*01/06/25 10:55*	*1*
Phenol-d5 (Surr)	*37*		*8 - 424*	*01/03/25 13:33*	*01/06/25 10:55*	*1*

Lab Sample ID: LCS 480-736510/2-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	32.0		ug/L		80	44 - 142
1,2-Dichlorobenzene	40.0	29.6		ug/L		74	32 - 129
1,3-Dichlorobenzene	40.0	26.4		ug/L		66	1 - 172
1,4-Dichlorobenzene	40.0	27.7		ug/L		69	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	34.7		ug/L		87	36 - 166
2,4,6-Trichlorophenol	40.0	40.1		ug/L		100	37 - 144
2,4-Dichlorophenol	40.0	40.3		ug/L		101	39 - 135
2,4-Dimethylphenol	40.0	41.3		ug/L		103	32 - 120
2,4-Dinitrophenol	80.0	95.8		ug/L		120	1 - 191
2,4-Dinitrotoluene	40.0	43.7		ug/L		109	39 - 139
2,6-Dinitrotoluene	40.0	42.9		ug/L		107	50 - 158
2-Chloronaphthalene	40.0	34.5		ug/L		86	60 - 120
2-Chlorophenol	40.0	35.9		ug/L		90	23 - 134
2-Nitrophenol	40.0	42.2		ug/L		105	29 - 182
3,3'-Dichlorobenzidine	40.0	38.1		ug/L		95	1 - 262
4,6-Dinitro-2-methylphenol	80.0	97.1		ug/L		121	1 - 181
4-Bromophenyl phenyl ether	40.0	40.2		ug/L		100	53 - 127
4-Chloro-3-methylphenol	40.0	42.0		ug/L		105	22 - 147
4-Chlorophenyl phenyl ether	40.0	37.7		ug/L		94	25 - 158
4-Nitrophenol	80.0	46.7		ug/L		58	1 - 132
Acenaphthene	40.0	37.3		ug/L		93	47 - 145
Acenaphthylene	40.0	39.4		ug/L		98	33 - 145
Anthracene	40.0	39.5		ug/L		99	27 - 133
Benzidine	40.0	ND		ug/L		26	1 - 120
Benzo[a]anthracene	40.0	43.2		ug/L		108	33 - 143
Benzo[a]pyrene	40.0	43.3		ug/L		108	17 - 163
Benzo[b]fluoranthene	40.0	40.9		ug/L		102	24 - 159
Benzo[g,h,i]perylene	40.0	45.1		ug/L		113	1 - 219
Benzo[k]fluoranthene	40.0	41.9		ug/L		105	11 - 162
Bis(2-chloroethoxy)methane	40.0	37.8		ug/L		94	33 - 184
Bis(2-chloroethyl)ether	40.0	35.3		ug/L		88	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-736510/2-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	44.2		ug/L		110	8 - 158
Butyl benzyl phthalate	40.0	47.1		ug/L		118	1 - 152
Chrysene	40.0	41.0		ug/L		103	17 - 168
Di-n-butyl phthalate	40.0	41.3		ug/L		103	1 - 120
Di-n-octyl phthalate	40.0	46.3		ug/L		116	4 - 146
Dibenz(a,h)anthracene	40.0	43.6		ug/L		109	1 - 227
Diethyl phthalate	40.0	41.6		ug/L		104	1 - 120
Dimethyl phthalate	40.0	41.5		ug/L		104	1 - 120
Fluoranthene	40.0	40.4		ug/L		101	26 - 137
Fluorene	40.0	37.3		ug/L		93	59 - 121
Hexachlorobenzene	40.0	40.5		ug/L		101	1 - 152
Hexachlorocyclopentadiene	40.0	32.2		ug/L		80	5 - 120
Hexachloroethane	40.0	26.8		ug/L		67	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	43.9		ug/L		110	1 - 171
Isophorone	40.0	41.4		ug/L		103	21 - 196
N-Nitrosodi-n-propylamine	40.0	39.8		ug/L		100	1 - 230
N-Nitrosodiphenylamine	40.0	40.1		ug/L		100	54 - 125
Naphthalene	40.0	33.5		ug/L		84	21 - 133
Nitrobenzene	40.0	41.6		ug/L		104	35 - 180
Pentachlorophenol	80.0	81.3		ug/L		102	14 - 176
Phenanthrene	40.0	38.6		ug/L		97	54 - 120
Phenol	40.0	19.2		ug/L		48	5 - 120
Pyrene	40.0	42.2		ug/L		105	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*109*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol (Surr)	*61*		*17 - 120*
Nitrobenzene-d5 (Surr)	*101*		*15 - 314*
p-Terphenyl-d14 (Surr)	*103*		*22 - 125*
Phenol-d5 (Surr)	*42*		*8 - 424*

Lab Sample ID: LCSD 480-736510/3-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 736510

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	32.3		ug/L		81	44 - 142	1	34
1,2-Dichlorobenzene	40.0	27.7		ug/L		69	32 - 129	6	38
1,3-Dichlorobenzene	40.0	25.8		ug/L		64	1 - 172	3	37
1,4-Dichlorobenzene	40.0	26.6		ug/L		66	20 - 124	4	40
2,2'-Oxybis(1-chloropropane)	40.0	32.9		ug/L		82	36 - 166	5	36
2,4,6-Trichlorophenol	40.0	41.2		ug/L		103	37 - 144	3	20
2,4-Dichlorophenol	40.0	39.3		ug/L		98	39 - 135	2	23
2,4-Dimethylphenol	40.0	43.4		ug/L		109	32 - 120	5	18
2,4-Dinitrophenol	80.0	101		ug/L		126	1 - 191	5	29
2,4-Dinitrotoluene	40.0	45.3		ug/L		113	39 - 139	4	20
2,6-Dinitrotoluene	40.0	44.1		ug/L		110	50 - 158	3	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-736510/3-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 736510

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			40.0	35.8		ug/L		90	60 - 120	4	30
2-Chlorophenol			40.0	33.0		ug/L		82	23 - 134	9	26
2-Nitrophenol			40.0	42.9		ug/L		107	29 - 182	2	28
3,3'-Dichlorobenzidine			40.0	38.5		ug/L		96	1 - 262	1	31
4,6-Dinitro-2-methylphenol			80.0	99.5		ug/L		124	1 - 181	3	30
4-Bromophenyl phenyl ether			40.0	41.8		ug/L		104	53 - 127	4	16
4-Chloro-3-methylphenol			40.0	41.1		ug/L		103	22 - 147	2	16
4-Chlorophenyl phenyl ether			40.0	39.2		ug/L		98	25 - 158	4	15
4-Nitrophenol			80.0	49.5		ug/L		62	1 - 132	6	24
Acenaphthene			40.0	37.3		ug/L		93	47 - 145	0	25
Acenaphthylene			40.0	39.0		ug/L		97	33 - 145	1	22
Anthracene			40.0	41.3		ug/L		103	27 - 133	4	15
Benzidine			40.0	ND		ug/L		17	1 - 120	38	50
Benzo[a]anthracene			40.0	43.0		ug/L		108	33 - 143	0	15
Benzo[a]pyrene			40.0	42.3		ug/L		106	17 - 163	2	15
Benzo[b]fluoranthene			40.0	40.8		ug/L		102	24 - 159	0	17
Benzo[g,h,i]perylene			40.0	44.2		ug/L		110	1 - 219	2	19
Benzo[k]fluoranthene			40.0	44.0		ug/L		110	11 - 162	5	19
Bis(2-chloroethoxy)methane			40.0	37.4		ug/L		93	33 - 184	1	23
Bis(2-chloroethyl)ether			40.0	33.3		ug/L		83	12 - 158	6	33
Bis(2-ethylhexyl) phthalate			40.0	44.9		ug/L		112	8 - 158	2	15
Butyl benzyl phthalate			40.0	45.8		ug/L		115	1 - 152	3	15
Chrysene			40.0	41.6		ug/L		104	17 - 168	1	15
Di-n-butyl phthalate			40.0	43.7		ug/L		109	1 - 120	6	15
Di-n-octyl phthalate			40.0	47.7		ug/L		119	4 - 146	3	15
Dibenz(a,h)anthracene			40.0	43.0		ug/L		108	1 - 227	1	18
Diethyl phthalate			40.0	42.4		ug/L		106	1 - 120	2	15
Dimethyl phthalate			40.0	42.9		ug/L		107	1 - 120	3	15
Fluoranthene			40.0	43.0		ug/L		107	26 - 137	6	15
Fluorene			40.0	39.9		ug/L		100	59 - 121	7	18
Hexachlorobenzene			40.0	42.0		ug/L		105	1 - 152	3	15
Hexachlorocyclopentadiene			40.0	31.6		ug/L		79	5 - 120	2	50
Hexachloroethane			40.0	25.6		ug/L		64	40 - 120	5	43
Indeno[1,2,3-cd]pyrene			40.0	43.1		ug/L		108	1 - 171	2	17
Isophorone			40.0	43.1		ug/L		108	21 - 196	4	21
N-Nitrosodi-n-propylamine			40.0	38.9		ug/L		97	1 - 230	2	23
N-Nitrosodiphenylamine			40.0	41.9		ug/L		105	54 - 125	4	15
Naphthalene			40.0	32.6		ug/L		82	21 - 133	3	31
Nitrobenzene			40.0	41.2		ug/L		103	35 - 180	1	27
Pentachlorophenol			80.0	82.6		ug/L		103	14 - 176	2	21
Phenanthrene			40.0	39.7		ug/L		99	54 - 120	3	16
Phenol			40.0	17.9		ug/L		45	5 - 120	7	36
Pyrene			40.0	42.5		ug/L		106	52 - 120	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*113*		*52 - 151*
2-Fluorobiphenyl	*94*		*44 - 120*
2-Fluorophenol (Surr)	*55*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-736510/3-A
Matrix: Water
Analysis Batch: 736550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 736510

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*100*		*15 - 314*
p-Terphenyl-d14 (Surr)	*102*		*22 - 125*
Phenol-d5 (Surr)	*40*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-736519/1-A
Matrix: Water
Analysis Batch: 736598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		01/06/25 08:01	01/06/25 14:17	1

Lab Sample ID: LCS 480-736519/2-A
Matrix: Water
Analysis Batch: 736598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.544		mg/L		109	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-736613/1-A
Matrix: Water
Analysis Batch: 736659

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 736613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		01/07/25 08:52	01/07/25 11:39	1

Lab Sample ID: LCS 480-736613/2-A
Matrix: Water
Analysis Batch: 736659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 736613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00669	0.00668		mg/L		100	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-736537/21
Matrix: Water
Analysis Batch: 736537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			01/05/25 19:25	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: HLCS 480-736537/22
Matrix: Water
Analysis Batch: 736537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.416		mg/L		104	90 - 110		

Lab Sample ID: LCS 480-736537/23
Matrix: Water
Analysis Batch: 736537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.255		mg/L		102	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-736569/1
Matrix: Water
Analysis Batch: 736569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 480-226589-6 DU
Matrix: Water
Analysis Batch: 736569

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.1	HF		7.2		SU				0.6	5
Temperature	20.6	HF		20.8		Degrees C				1	10

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

GC/MS VOA

Analysis Batch: 736491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-5	TRIP BLANK	Total/NA	WQ	624.1	
480-226589-6	001 LAB COMP	Total/NA	Water	624.1	
MB 480-736491/8	Method Blank	Total/NA	Water	624.1	
LCS 480-736491/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 736510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	625	
MB 480-736510/1-A	Method Blank	Total/NA	Water	625	
LCS 480-736510/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-736510/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 736550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	625.1	736510
MB 480-736510/1-A	Method Blank	Total/NA	Water	625.1	736510
LCS 480-736510/2-A	Lab Control Sample	Total/NA	Water	625.1	736510
LCSD 480-736510/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	736510

Metals

Prep Batch: 736519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	200.7	
MB 480-736519/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-736519/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 736598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	200.7 Rev 4.4	736519
MB 480-736519/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	736519
LCS 480-736519/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	736519

Prep Batch: 736613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	245.1	
MB 480-736613/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-736613/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 736659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	245.1	736613
MB 480-736613/1-A	Method Blank	Total/NA	Water	245.1	736613
LCS 480-736613/2-A	Lab Control Sample	Total/NA	Water	245.1	736613

General Chemistry

Analysis Batch: 736537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	335.4	

General Chemistry (Continued)

Analysis Batch: 736537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-736537/21	Method Blank	Total/NA	Water	335.4	
HLCS 480-736537/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-736537/23	Lab Control Sample	Total/NA	Water	335.4	

Analysis Batch: 736569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-226589-6	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	
LCS 480-736569/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-226589-6 DU	001 LAB COMP	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-226589-1
Project/Site: Monthly Discharge Analysis

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-226589-5
Date Collected: 01/02/25 00:00
Matrix: WQ
Date Received: 01/03/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	736491	ZN	EET BUF	01/03/25 16:18

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-226589-6
Date Collected: 01/03/25 00:00
Matrix: Water
Date Received: 01/03/25 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	736491	ZN	EET BUF	01/03/25 16:42
Total/NA	Prep	625			736510	LSC	EET BUF	01/03/25 13:33
Total/NA	Analysis	625.1		1	736550	JMM	EET BUF	01/06/25 12:32
Total/NA	Prep	200.7			736519	ET	EET BUF	01/06/25 08:01
Total/NA	Analysis	200.7 Rev 4.4		1	736598	MP	EET BUF	01/06/25 14:30
Total/NA	Prep	245.1			736613	ESB	EET BUF	01/07/25 08:52
Total/NA	Analysis	245.1		1	736659	ESB	EET BUF	01/07/25 11:56
Total/NA	Analysis	335.4		1	736537	GW	EET BUF	01/05/25 19:45
Total/NA	Analysis	SM 4500 H+ B		1	736569	AB	EET BUF	01/06/25 10:52

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-226589-1
Project/Site: Monthly Discharge Analysis

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Water	1,2-Dichlorobenzene
625.1	625	Water	1,3-Dichlorobenzene
625.1	625	Water	1,4-Dichlorobenzene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Discharge Analysis

Job ID: 480-226589-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-226589-5	TRIP BLANK	WQ	01/02/25 00:00	01/03/25 13:00
480-226589-6	001 LAB COMP	Water	01/03/25 00:00	01/03/25 13:00

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193799-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis US Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 30240051.00001			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3
B - NaOH
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	1/2/25	0644	G	Water			X	X	X	X	X		Lab To
001-2		0844		Water			X	X	X	X	X		Composite
001-3		1044					X	X	X	X	X		Samples
001-4		1244					X	X	X	X	X		
Trip Blank		—						X					
													Short Hold Time

480-226589 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	1/2/25 / 1300	Arcadis	[signature]	01/02/25 1300	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.9 IR#CICE

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-226589-1

Login Number: 226589
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 2/18/2025 11:58:49 AM

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.
Monthly Testing

JOB NUMBER

480-227177-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

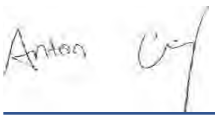
Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
2/18/2025 11:58:49 AM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 7
Client Sample Results 8
Surrogate Summary 13
QC Sample Results 15
QC Association Summary 27
Lab Chronicle 29
Certification Summary 30
Method Summary 31
Sample Summary 32
Chain of Custody 33
Receipt Checklists 34

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 480-227177-1
Project/Site: Iroquois Gas/Westwood Pharm.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-227177-1 Eurofins Buffalo

Job Narrative
480-227177-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/5/2025 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.7°C.

GC/MS VOA
Method 624.1_PREC: The following Volatile sample was composited by the laboratory on 02/06/2025 as requested by the client: 001 LAB COMP (480-227177-5). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

Method 624.1_PREC: The continuing calibration verification (CCV) associated with batch 480-738553 recovered outside acceptance criteria, low biased, for Acrolein. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The following associated samples are impacted: 001 LAB COMP (480-227177-5) and TRIP BLANK (480-227177-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-738608.

Method 625.1_PREC: The following sample was re-prepared outside of preparation holding time due to low LCS/LCSD recoveries: 001 LAB COMP (480-227177-5).

Method 625.1_PREC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-738935.

Method 625.1_PREC: The laboratory control sample (LCS) and duplicate (LCSD) for preparation batch 480-738608 and analytical batch 480-738678 recovered outside control limits for the following analytes: 2-Chloronaphthalene and Hexachloroethane. The associated sample(s) was re-prepared and/or re-analyzed outside holding time in preparation batch 480-738935 and analytical batch 480-739000.

Method 625.1_PREC: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-738935 and analytical batch 480-739000 recovered outside control limits for the following analytes: Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-227177-5).

Eurofins Buffalo

Job ID: 480-227177-1 (Continued) Eurofins Buffalo

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-227177-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: 001 LAB COMP — Lab Sample ID: 480-227177-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.030		0.010	0.0068	mg/L	1		200.7 Rev 4.4	Total/NA
Cyanide, Total	0.12		0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.6	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-227177-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-227177-5

Date Collected: 02/05/25 00:00
Matrix: Wastewater
Date Received: 02/05/25 13:30

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			02/07/25 03:36	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			02/07/25 03:36	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			02/07/25 03:36	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			02/07/25 03:36	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			02/07/25 03:36	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			02/07/25 03:36	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			02/07/25 03:36	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			02/07/25 03:36	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			02/07/25 03:36	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			02/07/25 03:36	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			02/07/25 03:36	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			02/07/25 03:36	1
Acrolein	ND		100	17	ug/L			02/07/25 03:36	1
Acrylonitrile	ND		50	1.9	ug/L			02/07/25 03:36	1
Benzene	ND		5.0	0.60	ug/L			02/07/25 03:36	1
Bromoform	ND		5.0	0.47	ug/L			02/07/25 03:36	1
Bromomethane	ND		5.0	1.2	ug/L			02/07/25 03:36	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			02/07/25 03:36	1
Chlorobenzene	ND		5.0	0.48	ug/L			02/07/25 03:36	1
Dibromochloromethane	ND		5.0	0.41	ug/L			02/07/25 03:36	1
Chloroethane	ND		5.0	0.87	ug/L			02/07/25 03:36	1
Chloroform	ND		5.0	0.54	ug/L			02/07/25 03:36	1
Chloromethane	ND		5.0	0.64	ug/L			02/07/25 03:36	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			02/07/25 03:36	1
Bromodichloromethane	ND		5.0	0.54	ug/L			02/07/25 03:36	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			02/07/25 03:36	1
Ethylbenzene	ND		5.0	0.46	ug/L			02/07/25 03:36	1
Methylene Chloride	ND		5.0	0.81	ug/L			02/07/25 03:36	1
Tetrachloroethene	ND		5.0	0.34	ug/L			02/07/25 03:36	1
Toluene	ND		5.0	0.45	ug/L			02/07/25 03:36	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			02/07/25 03:36	1
Trichloroethene	ND		5.0	0.60	ug/L			02/07/25 03:36	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			02/07/25 03:36	1
Vinyl chloride	ND		5.0	0.75	ug/L			02/07/25 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*68 - 130*		*02/07/25 03:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*02/07/25 03:36*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*02/07/25 03:36*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/07/25 03:36*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		02/07/25 14:12	02/10/25 21:57	1
1,2-Dichlorobenzene	ND		10	0.27	ug/L		02/07/25 14:12	02/10/25 21:57	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		02/07/25 14:12	02/10/25 21:57	1
1,3-Dichlorobenzene	ND		10	0.18	ug/L		02/07/25 14:12	02/10/25 21:57	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		02/07/25 14:12	02/10/25 21:57	1
2,2'-Oxybis(1-chloropropane)	ND		5.2	0.22	ug/L		02/07/25 14:12	02/10/25 21:57	1
2,4,6-Trichlorophenol	ND		5.2	0.26	ug/L		02/07/25 14:12	02/10/25 21:57	1

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-227177-1

Client Sample ID: 001 LAB COMP
Date Collected: 02/05/25 00:00
Date Received: 02/05/25 13:30

Lab Sample ID: 480-227177-5
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.2	0.20	ug/L		02/07/25 14:12	02/10/25 21:57	1
2,4-Dimethylphenol	ND		5.2	0.36	ug/L		02/07/25 14:12	02/10/25 21:57	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		02/07/25 14:12	02/10/25 21:57	1
2,4-Dinitrotoluene	ND		10	0.42	ug/L		02/07/25 14:12	02/10/25 21:57	1
2,6-Dinitrotoluene	ND		5.2	0.26	ug/L		02/07/25 14:12	02/10/25 21:57	1
2-Chloronaphthalene	ND	*-	5.2	0.24	ug/L		02/07/25 14:12	02/10/25 21:57	1
2-Chlorophenol	ND		5.2	0.17	ug/L		02/07/25 14:12	02/10/25 21:57	1
2-Nitrophenol	ND		5.2	0.18	ug/L		02/07/25 14:12	02/10/25 21:57	1
3,3'-Dichlorobenzidine	ND		5.2	0.41	ug/L		02/07/25 14:12	02/10/25 21:57	1
4,6-Dinitro-2-methylphenol	ND		10	0.47	ug/L		02/07/25 14:12	02/10/25 21:57	1
4-Bromophenyl phenyl ether	ND		5.2	0.36	ug/L		02/07/25 14:12	02/10/25 21:57	1
4-Chloro-3-methylphenol	ND		5.2	0.29	ug/L		02/07/25 14:12	02/10/25 21:57	1
4-Chlorophenyl phenyl ether	ND		5.2	0.34	ug/L		02/07/25 14:12	02/10/25 21:57	1
4-Nitrophenol	ND		16	0.51	ug/L		02/07/25 14:12	02/10/25 21:57	1
Acenaphthene	ND		5.2	0.21	ug/L		02/07/25 14:12	02/10/25 21:57	1
Acenaphthylene	ND		5.2	0.23	ug/L		02/07/25 14:12	02/10/25 21:57	1
Anthracene	ND		5.2	0.36	ug/L		02/07/25 14:12	02/10/25 21:57	1
Benzidine	ND		83	14	ug/L		02/07/25 14:12	02/10/25 21:57	1
Benzo[a]anthracene	ND		5.2	0.29	ug/L		02/07/25 14:12	02/10/25 21:57	1
Benzo[a]pyrene	ND		5.2	0.34	ug/L		02/07/25 14:12	02/10/25 21:57	1
Benzo[b]fluoranthene	ND		5.2	0.31	ug/L		02/07/25 14:12	02/10/25 21:57	1
Benzo[g,h,i]perylene	ND		5.2	0.39	ug/L		02/07/25 14:12	02/10/25 21:57	1
Benzo[k]fluoranthene	ND		5.2	0.34	ug/L		02/07/25 14:12	02/10/25 21:57	1
Bis(2-chloroethoxy)methane	ND		5.2	0.20	ug/L		02/07/25 14:12	02/10/25 21:57	1
Bis(2-chloroethyl)ether	ND		5.2	0.24	ug/L		02/07/25 14:12	02/10/25 21:57	1
Bis(2-ethylhexyl) phthalate	ND		10	0.31	ug/L		02/07/25 14:12	02/10/25 21:57	1
Butyl benzyl phthalate	ND		5.2	0.29	ug/L		02/07/25 14:12	02/10/25 21:57	1
Chrysene	ND		5.2	0.26	ug/L		02/07/25 14:12	02/10/25 21:57	1
Decane	ND		10	0.41	ug/L		02/07/25 14:12	02/10/25 21:57	1
Di-n-butyl phthalate	ND		5.2	0.42	ug/L		02/07/25 14:12	02/10/25 21:57	1
Di-n-octyl phthalate	ND		5.2	0.31	ug/L		02/07/25 14:12	02/10/25 21:57	1
Dibenz(a,h)anthracene	ND		5.2	0.39	ug/L		02/07/25 14:12	02/10/25 21:57	1
Diethyl phthalate	ND		5.2	0.26	ug/L		02/07/25 14:12	02/10/25 21:57	1
Dimethyl phthalate	ND		5.2	0.24	ug/L		02/07/25 14:12	02/10/25 21:57	1
Fluoranthene	ND		5.2	0.42	ug/L		02/07/25 14:12	02/10/25 21:57	1
Fluorene	ND		5.2	0.26	ug/L		02/07/25 14:12	02/10/25 21:57	1
Hexachlorobenzene	ND		5.2	0.26	ug/L		02/07/25 14:12	02/10/25 21:57	1
Hexachlorobutadiene	ND		5.2	0.26	ug/L		02/07/25 14:12	02/10/25 21:57	1
Hexachlorocyclopentadiene	ND		10	0.55	ug/L		02/07/25 14:12	02/10/25 21:57	1
Hexachloroethane	ND	*-	5.2	0.16	ug/L		02/07/25 14:12	02/10/25 21:57	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.39	ug/L		02/07/25 14:12	02/10/25 21:57	1
Isophorone	ND		5.2	0.19	ug/L		02/07/25 14:12	02/10/25 21:57	1
N-Nitrosodi-n-propylamine	ND		5.2	0.23	ug/L		02/07/25 14:12	02/10/25 21:57	1
N-Nitrosodimethylamine	ND		10	0.15	ug/L		02/07/25 14:12	02/10/25 21:57	1
N-Nitrosodiphenylamine	ND		5.2	0.21	ug/L		02/07/25 14:12	02/10/25 21:57	1
Naphthalene	ND		5.2	0.22	ug/L		02/07/25 14:12	02/10/25 21:57	1
Nitrobenzene	ND		5.2	0.21	ug/L		02/07/25 14:12	02/10/25 21:57	1
Pentachlorophenol	ND		10	0.82	ug/L		02/07/25 14:12	02/10/25 21:57	1
Phenanthrene	ND		5.2	0.31	ug/L		02/07/25 14:12	02/10/25 21:57	1

Client Sample ID: 001 LAB COMP
Date Collected: 02/05/25 00:00
Date Received: 02/05/25 13:30

Lab Sample ID: 480-227177-5
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.2	0.091	ug/L		02/07/25 14:12	02/10/25 21:57	1
Pyrene	ND		5.2	0.36	ug/L		02/07/25 14:12	02/10/25 21:57	1
n-Octadecane	ND		10	0.31	ug/L		02/07/25 14:12	02/10/25 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*52 - 151*	*02/07/25 14:12*	*02/10/25 21:57*	*1*
2-Fluorobiphenyl	*70*		*44 - 120*	*02/07/25 14:12*	*02/10/25 21:57*	*1*
2-Fluorophenol (Surr)	*47*		*17 - 120*	*02/07/25 14:12*	*02/10/25 21:57*	*1*
Nitrobenzene-d5 (Surr)	*69*		*15 - 314*	*02/07/25 14:12*	*02/10/25 21:57*	*1*
p-Terphenyl-d14 (Surr)	*93*		*22 - 125*	*02/07/25 14:12*	*02/10/25 21:57*	*1*
Phenol-d5 (Surr)	*35*		*8 - 424*	*02/07/25 14:12*	*02/10/25 21:57*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	9.5	0.20	ug/L		02/13/25 13:46	02/14/25 12:42	1
1,2-Dichlorobenzene	ND	H	9.5	0.25	ug/L		02/13/25 13:46	02/14/25 12:42	1
1,2-Diphenylhydrazine	ND	H	9.5	0.19	ug/L		02/13/25 13:46	02/14/25 12:42	1
1,3-Dichlorobenzene	ND	H	9.5	0.16	ug/L		02/13/25 13:46	02/14/25 12:42	1
1,4-Dichlorobenzene	ND	H	9.5	0.20	ug/L		02/13/25 13:46	02/14/25 12:42	1
2,2'-Oxybis(1-chloropropane)	ND	H	4.8	0.20	ug/L		02/13/25 13:46	02/14/25 12:42	1
2,4,6-Trichlorophenol	ND	H	4.8	0.24	ug/L		02/13/25 13:46	02/14/25 12:42	1
2,4-Dichlorophenol	ND	H	4.8	0.18	ug/L		02/13/25 13:46	02/14/25 12:42	1
2,4-Dimethylphenol	ND	H	4.8	0.33	ug/L		02/13/25 13:46	02/14/25 12:42	1
2,4-Dinitrophenol	ND	H	9.5	1.2	ug/L		02/13/25 13:46	02/14/25 12:42	1
2,4-Dinitrotoluene	ND	H	9.5	0.38	ug/L		02/13/25 13:46	02/14/25 12:42	1
2,6-Dinitrotoluene	ND	H	4.8	0.24	ug/L		02/13/25 13:46	02/14/25 12:42	1
2-Chloronaphthalene	ND	H	4.8	0.22	ug/L		02/13/25 13:46	02/14/25 12:42	1
2-Chlorophenol	ND	H	4.8	0.16	ug/L		02/13/25 13:46	02/14/25 12:42	1
2-Nitrophenol	ND	H	4.8	0.17	ug/L		02/13/25 13:46	02/14/25 12:42	1
3,3'-Dichlorobenzidine	ND	H	4.8	0.38	ug/L		02/13/25 13:46	02/14/25 12:42	1
4,6-Dinitro-2-methylphenol	ND	H	9.5	0.43	ug/L		02/13/25 13:46	02/14/25 12:42	1
4-Bromophenyl phenyl ether	ND	H	4.8	0.33	ug/L		02/13/25 13:46	02/14/25 12:42	1
4-Chloro-3-methylphenol	ND	H	4.8	0.26	ug/L		02/13/25 13:46	02/14/25 12:42	1
4-Chlorophenyl phenyl ether	ND	H	4.8	0.31	ug/L		02/13/25 13:46	02/14/25 12:42	1
4-Nitrophenol	ND	H	14	0.46	ug/L		02/13/25 13:46	02/14/25 12:42	1
Acenaphthene	ND	H	4.8	0.19	ug/L		02/13/25 13:46	02/14/25 12:42	1
Acenaphthylene	ND	H	4.8	0.21	ug/L		02/13/25 13:46	02/14/25 12:42	1
Anthracene	ND	H	4.8	0.33	ug/L		02/13/25 13:46	02/14/25 12:42	1
Benzidine	ND	H *1	76	13	ug/L		02/13/25 13:46	02/14/25 12:42	1
Benzo[a]anthracene	ND	H	4.8	0.26	ug/L		02/13/25 13:46	02/14/25 12:42	1
Benzo[a]pyrene	ND	H	4.8	0.31	ug/L		02/13/25 13:46	02/14/25 12:42	1
Benzo[b]fluoranthene	ND	H	4.8	0.29	ug/L		02/13/25 13:46	02/14/25 12:42	1
Benzo[g,h,i]perylene	ND	H	4.8	0.36	ug/L		02/13/25 13:46	02/14/25 12:42	1
Benzo[k]fluoranthene	ND	H	4.8	0.31	ug/L		02/13/25 13:46	02/14/25 12:42	1
Bis(2-chloroethoxy)methane	ND	H	4.8	0.18	ug/L		02/13/25 13:46	02/14/25 12:42	1
Bis(2-chloroethyl)ether	ND	H	4.8	0.22	ug/L		02/13/25 13:46	02/14/25 12:42	1
Bis(2-ethylhexyl) phthalate	ND	H	9.5	0.29	ug/L		02/13/25 13:46	02/14/25 12:42	1
Butyl benzyl phthalate	ND	H	4.8	0.26	ug/L		02/13/25 13:46	02/14/25 12:42	1
Chrysene	ND	H	4.8	0.24	ug/L		02/13/25 13:46	02/14/25 12:42	1
Decane	ND	H	9.5	0.38	ug/L		02/13/25 13:46	02/14/25 12:42	1

Client Sample ID: 001 LAB COMP
Date Collected: 02/05/25 00:00
Date Received: 02/05/25 13:30

Lab Sample ID: 480-227177-5
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND	H	4.8	0.38	ug/L		02/13/25 13:46	02/14/25 12:42	1
Di-n-octyl phthalate	ND	H	4.8	0.29	ug/L		02/13/25 13:46	02/14/25 12:42	1
Dibenz(a,h)anthracene	ND	H	4.8	0.36	ug/L		02/13/25 13:46	02/14/25 12:42	1
Diethyl phthalate	ND	H	4.8	0.24	ug/L		02/13/25 13:46	02/14/25 12:42	1
Dimethyl phthalate	ND	H	4.8	0.22	ug/L		02/13/25 13:46	02/14/25 12:42	1
Fluoranthene	ND	H	4.8	0.38	ug/L		02/13/25 13:46	02/14/25 12:42	1
Fluorene	ND	H	4.8	0.24	ug/L		02/13/25 13:46	02/14/25 12:42	1
Hexachlorobenzene	ND	H	4.8	0.24	ug/L		02/13/25 13:46	02/14/25 12:42	1
Hexachlorobutadiene	ND	H	4.8	0.24	ug/L		02/13/25 13:46	02/14/25 12:42	1
Hexachlorocyclopentadiene	ND	H	9.5	0.50	ug/L		02/13/25 13:46	02/14/25 12:42	1
Hexachloroethane	ND	H	4.8	0.14	ug/L		02/13/25 13:46	02/14/25 12:42	1
Indeno[1,2,3-cd]pyrene	ND	H	4.8	0.36	ug/L		02/13/25 13:46	02/14/25 12:42	1
Isophorone	ND	H	4.8	0.18	ug/L		02/13/25 13:46	02/14/25 12:42	1
N-Nitrosodi-n-propylamine	ND	H	4.8	0.21	ug/L		02/13/25 13:46	02/14/25 12:42	1
N-Nitrosodimethylamine	ND	H	9.5	0.14	ug/L		02/13/25 13:46	02/14/25 12:42	1
N-Nitrosodiphenylamine	ND	H	4.8	0.20	ug/L		02/13/25 13:46	02/14/25 12:42	1
Naphthalene	ND	H	4.8	0.20	ug/L		02/13/25 13:46	02/14/25 12:42	1
Nitrobenzene	ND	H	4.8	0.19	ug/L		02/13/25 13:46	02/14/25 12:42	1
Pentachlorophenol	ND	H	9.5	0.75	ug/L		02/13/25 13:46	02/14/25 12:42	1
Phenanthrene	ND	H	4.8	0.29	ug/L		02/13/25 13:46	02/14/25 12:42	1
Phenol	ND	H	4.8	0.083	ug/L		02/13/25 13:46	02/14/25 12:42	1
Pyrene	ND	H	4.8	0.33	ug/L		02/13/25 13:46	02/14/25 12:42	1
n-Octadecane	ND	H	9.5	0.29	ug/L		02/13/25 13:46	02/14/25 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*52 - 151*	*02/13/25 13:46*	*02/14/25 12:42*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*02/13/25 13:46*	*02/14/25 12:42*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*02/13/25 13:46*	*02/14/25 12:42*	*1*
Nitrobenzene-d5 (Surr)	*89*		*15 - 314*	*02/13/25 13:46*	*02/14/25 12:42*	*1*
p-Terphenyl-d14 (Surr)	*82*		*22 - 125*	*02/13/25 13:46*	*02/14/25 12:42*	*1*
Phenol-d5 (Surr)	*35*		*8 - 424*	*02/13/25 13:46*	*02/14/25 12:42*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**0.030**		0.010	0.0068	mg/L		02/06/25 12:00	02/10/25 14:56	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/11/25 08:13	02/11/25 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.12**		0.010	0.0041	mg/L			02/11/25 17:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			02/06/25 11:42	1
Temperature (SM 4500 H+ B)	**19.6**	**HF**	0.001	0.001	Degrees C			02/06/25 11:42	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-227177-6

Date Collected: 02/05/25 00:00
Matrix: WQ

Date Received: 02/05/25 13:30

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			02/07/25 04:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			02/07/25 04:00	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			02/07/25 04:00	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			02/07/25 04:00	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			02/07/25 04:00	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			02/07/25 04:00	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			02/07/25 04:00	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			02/07/25 04:00	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			02/07/25 04:00	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			02/07/25 04:00	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			02/07/25 04:00	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			02/07/25 04:00	1
Acrolein	ND		100	17	ug/L			02/07/25 04:00	1
Acrylonitrile	ND		50	1.9	ug/L			02/07/25 04:00	1
Benzene	ND		5.0	0.60	ug/L			02/07/25 04:00	1
Bromoform	ND		5.0	0.47	ug/L			02/07/25 04:00	1
Bromomethane	ND		5.0	1.2	ug/L			02/07/25 04:00	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			02/07/25 04:00	1
Chlorobenzene	ND		5.0	0.48	ug/L			02/07/25 04:00	1
Dibromochloromethane	ND		5.0	0.41	ug/L			02/07/25 04:00	1
Chloroethane	ND		5.0	0.87	ug/L			02/07/25 04:00	1
Chloroform	ND		5.0	0.54	ug/L			02/07/25 04:00	1
Chloromethane	ND		5.0	0.64	ug/L			02/07/25 04:00	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			02/07/25 04:00	1
Bromodichloromethane	ND		5.0	0.54	ug/L			02/07/25 04:00	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			02/07/25 04:00	1
Ethylbenzene	ND		5.0	0.46	ug/L			02/07/25 04:00	1
Methylene Chloride	ND		5.0	0.81	ug/L			02/07/25 04:00	1
Tetrachloroethene	ND		5.0	0.34	ug/L			02/07/25 04:00	1
Toluene	ND		5.0	0.45	ug/L			02/07/25 04:00	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			02/07/25 04:00	1
Trichloroethene	ND		5.0	0.60	ug/L			02/07/25 04:00	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			02/07/25 04:00	1
Vinyl chloride	ND		5.0	0.75	ug/L			02/07/25 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*68 - 130*		*02/07/25 04:00*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*02/07/25 04:00*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*02/07/25 04:00*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/07/25 04:00*	*1*

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-227177-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-227177-5	001 LAB COMP	111	101	100	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-738553/6	Lab Control Sample	107	101	101	103
MB 480-738553/8	Method Blank	112	100	100	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-227177-6	TRIP BLANK	114	101	100	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-227177-5	001 LAB COMP	79	70	47	69	93	35
480-227177-5 - RE	001 LAB COMP	88	90	52	89	82	35

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-227177-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)		
LCS 480-738608/2-A	Lab Control Sample	105	93	57	93	100	41		
LCS 480-738935/2-A	Lab Control Sample	109	96	58	93	96	39		
LCSD 480-738608/3-A	Lab Control Sample Dup	105	95	60	90	101	42		
LCSD 480-738935/3-A	Lab Control Sample Dup	98	90	59	88	91	40		
MB 480-738608/1-A	Method Blank	97	86	57	88	93	40		
MB 480-738935/1-A	Method Blank	86	89	52	86	93	38		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-227177-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-738553/8
Matrix: Water
Analysis Batch: 738553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			02/06/25 22:23	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			02/06/25 22:23	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			02/06/25 22:23	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			02/06/25 22:23	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			02/06/25 22:23	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			02/06/25 22:23	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			02/06/25 22:23	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			02/06/25 22:23	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			02/06/25 22:23	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			02/06/25 22:23	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			02/06/25 22:23	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			02/06/25 22:23	1
Acrolein	ND		100	17	ug/L			02/06/25 22:23	1
Acrylonitrile	ND		50	1.9	ug/L			02/06/25 22:23	1
Benzene	ND		5.0	0.60	ug/L			02/06/25 22:23	1
Bromoform	ND		5.0	0.47	ug/L			02/06/25 22:23	1
Bromomethane	ND		5.0	1.2	ug/L			02/06/25 22:23	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			02/06/25 22:23	1
Chlorobenzene	ND		5.0	0.48	ug/L			02/06/25 22:23	1
Dibromochloromethane	ND		5.0	0.41	ug/L			02/06/25 22:23	1
Chloroethane	ND		5.0	0.87	ug/L			02/06/25 22:23	1
Chloroform	ND		5.0	0.54	ug/L			02/06/25 22:23	1
Chloromethane	ND		5.0	0.64	ug/L			02/06/25 22:23	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			02/06/25 22:23	1
Bromodichloromethane	ND		5.0	0.54	ug/L			02/06/25 22:23	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			02/06/25 22:23	1
Ethylbenzene	ND		5.0	0.46	ug/L			02/06/25 22:23	1
Methylene Chloride	ND		5.0	0.81	ug/L			02/06/25 22:23	1
Tetrachloroethene	ND		5.0	0.34	ug/L			02/06/25 22:23	1
Toluene	ND		5.0	0.45	ug/L			02/06/25 22:23	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			02/06/25 22:23	1
Trichloroethene	ND		5.0	0.60	ug/L			02/06/25 22:23	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			02/06/25 22:23	1
Vinyl chloride	ND		5.0	0.75	ug/L			02/06/25 22:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*68 - 130*		*02/06/25 22:23*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*02/06/25 22:23*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*02/06/25 22:23*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/06/25 22:23*	*1*

Lab Sample ID: LCS 480-738553/6
Matrix: Water
Analysis Batch: 738553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	18.7		ug/L		94	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	19.4		ug/L		97	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-738553/6
Matrix: Water
Analysis Batch: 738553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	52 - 150
1,1-Dichloroethane	20.0	18.2		ug/L		91	59 - 155
1,1-Dichloroethene	20.0	18.0		ug/L		90	1 - 234
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	18 - 190
1,2-Dichloroethane	20.0	20.4		ug/L		102	49 - 155
1,2-Dichloropropane	20.0	19.1		ug/L		96	1 - 210
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	59 - 156
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	18 - 190
2-Chloroethyl vinyl ether	20.0	20.9	J	ug/L		104	1 - 305
Benzene	20.0	19.1		ug/L		95	37 - 151
Bromoform	20.0	21.0		ug/L		105	45 - 169
Bromomethane	20.0	23.1		ug/L		115	1 - 242
Carbon tetrachloride	20.0	18.3		ug/L		92	70 - 140
Chlorobenzene	20.0	19.1		ug/L		95	37 - 160
Dibromochloromethane	20.0	20.8		ug/L		104	53 - 149
Chloroethane	20.0	21.1		ug/L		106	14 - 230
Chloroform	20.0	19.5		ug/L		97	51 - 138
Chloromethane	20.0	23.1		ug/L		115	1 - 273
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	1 - 227
Bromodichloromethane	20.0	21.0		ug/L		105	35 - 155
Ethylbenzene	20.0	18.9		ug/L		94	37 - 162
Methylene Chloride	20.0	18.5		ug/L		93	1 - 221
Tetrachloroethene	20.0	18.8		ug/L		94	64 - 148
Toluene	20.0	18.7		ug/L		93	47 - 150
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	17 - 183
Trichloroethene	20.0	19.4		ug/L		97	71 - 157
Trichlorofluoromethane	20.0	23.4		ug/L		117	17 - 181
Vinyl chloride	20.0	20.3		ug/L		102	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 130*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-738608/1-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		02/07/25 14:12	02/10/25 18:41	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		02/07/25 14:12	02/10/25 18:41	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		02/07/25 14:12	02/10/25 18:41	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		02/07/25 14:12	02/10/25 18:41	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		02/07/25 14:12	02/10/25 18:41	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		02/07/25 14:12	02/10/25 18:41	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		02/07/25 14:12	02/10/25 18:41	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-738608/1-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		02/07/25 14:12	02/10/25 18:41	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		02/07/25 14:12	02/10/25 18:41	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		02/07/25 14:12	02/10/25 18:41	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		02/07/25 14:12	02/10/25 18:41	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		02/07/25 14:12	02/10/25 18:41	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		02/07/25 14:12	02/10/25 18:41	1
2-Chlorophenol	ND		5.0	0.17	ug/L		02/07/25 14:12	02/10/25 18:41	1
2-Nitrophenol	ND		5.0	0.18	ug/L		02/07/25 14:12	02/10/25 18:41	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/07/25 14:12	02/10/25 18:41	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		02/07/25 14:12	02/10/25 18:41	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		02/07/25 14:12	02/10/25 18:41	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		02/07/25 14:12	02/10/25 18:41	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		02/07/25 14:12	02/10/25 18:41	1
4-Nitrophenol	ND		15	0.49	ug/L		02/07/25 14:12	02/10/25 18:41	1
Acenaphthene	ND		5.0	0.20	ug/L		02/07/25 14:12	02/10/25 18:41	1
Acenaphthylene	ND		5.0	0.22	ug/L		02/07/25 14:12	02/10/25 18:41	1
Anthracene	ND		5.0	0.35	ug/L		02/07/25 14:12	02/10/25 18:41	1
Benzidine	ND		80	14	ug/L		02/07/25 14:12	02/10/25 18:41	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		02/07/25 14:12	02/10/25 18:41	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		02/07/25 14:12	02/10/25 18:41	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		02/07/25 14:12	02/10/25 18:41	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		02/07/25 14:12	02/10/25 18:41	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		02/07/25 14:12	02/10/25 18:41	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		02/07/25 14:12	02/10/25 18:41	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		02/07/25 14:12	02/10/25 18:41	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		02/07/25 14:12	02/10/25 18:41	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		02/07/25 14:12	02/10/25 18:41	1
Chrysene	ND		5.0	0.25	ug/L		02/07/25 14:12	02/10/25 18:41	1
Decane	ND		10	0.40	ug/L		02/07/25 14:12	02/10/25 18:41	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		02/07/25 14:12	02/10/25 18:41	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		02/07/25 14:12	02/10/25 18:41	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		02/07/25 14:12	02/10/25 18:41	1
Diethyl phthalate	ND		5.0	0.25	ug/L		02/07/25 14:12	02/10/25 18:41	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		02/07/25 14:12	02/10/25 18:41	1
Fluoranthene	ND		5.0	0.40	ug/L		02/07/25 14:12	02/10/25 18:41	1
Fluorene	ND		5.0	0.25	ug/L		02/07/25 14:12	02/10/25 18:41	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		02/07/25 14:12	02/10/25 18:41	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		02/07/25 14:12	02/10/25 18:41	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		02/07/25 14:12	02/10/25 18:41	1
Hexachloroethane	ND		5.0	0.15	ug/L		02/07/25 14:12	02/10/25 18:41	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		02/07/25 14:12	02/10/25 18:41	1
Isophorone	ND		5.0	0.19	ug/L		02/07/25 14:12	02/10/25 18:41	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		02/07/25 14:12	02/10/25 18:41	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		02/07/25 14:12	02/10/25 18:41	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		02/07/25 14:12	02/10/25 18:41	1
Naphthalene	ND		5.0	0.22	ug/L		02/07/25 14:12	02/10/25 18:41	1
Nitrobenzene	ND		5.0	0.20	ug/L		02/07/25 14:12	02/10/25 18:41	1
Pentachlorophenol	ND		10	0.79	ug/L		02/07/25 14:12	02/10/25 18:41	1
Phenanthrene	ND		5.0	0.30	ug/L		02/07/25 14:12	02/10/25 18:41	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-738608/1-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		02/07/25 14:12	02/10/25 18:41	1
Pyrene	ND		5.0	0.35	ug/L		02/07/25 14:12	02/10/25 18:41	1
n-Octadecane	ND		10	0.30	ug/L		02/07/25 14:12	02/10/25 18:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*52 - 151*	*02/07/25 14:12*	*02/10/25 18:41*	*1*
2-Fluorobiphenyl	*86*		*44 - 120*	*02/07/25 14:12*	*02/10/25 18:41*	*1*
2-Fluorophenol (Surr)	*57*		*17 - 120*	*02/07/25 14:12*	*02/10/25 18:41*	*1*
Nitrobenzene-d5 (Surr)	*88*		*15 - 314*	*02/07/25 14:12*	*02/10/25 18:41*	*1*
p-Terphenyl-d14 (Surr)	*93*		*22 - 125*	*02/07/25 14:12*	*02/10/25 18:41*	*1*
Phenol-d5 (Surr)	*40*		*8 - 424*	*02/07/25 14:12*	*02/10/25 18:41*	*1*

Lab Sample ID: LCS 480-738608/2-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	19.5		ug/L		49	44 - 142
1,2-Dichlorobenzene	40.0	20.6		ug/L		51	32 - 129
1,3-Dichlorobenzene	40.0	17.5		ug/L		44	1 - 172
1,4-Dichlorobenzene	40.0	18.1		ug/L		45	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	32.1		ug/L		80	36 - 166
2,4,6-Trichlorophenol	40.0	38.4		ug/L		96	37 - 144
2,4-Dichlorophenol	40.0	39.1		ug/L		98	39 - 135
2,4-Dimethylphenol	40.0	39.4		ug/L		98	32 - 120
2,4-Dinitrophenol	80.0	89.7		ug/L		112	1 - 191
2,4-Dinitrotoluene	40.0	42.7		ug/L		107	39 - 139
2,6-Dinitrotoluene	40.0	42.9		ug/L		107	50 - 158
2-Chloronaphthalene	40.0	23.6	*-	ug/L		59	60 - 120
2-Chlorophenol	40.0	34.1		ug/L		85	23 - 134
2-Nitrophenol	40.0	38.8		ug/L		97	29 - 182
3,3'-Dichlorobenzidine	40.0	32.7		ug/L		82	1 - 262
4,6-Dinitro-2-methylphenol	80.0	86.3		ug/L		108	1 - 181
4-Bromophenyl phenyl ether	40.0	38.6		ug/L		97	53 - 127
4-Chloro-3-methylphenol	40.0	41.3		ug/L		103	22 - 147
4-Chlorophenyl phenyl ether	40.0	32.0		ug/L		80	25 - 158
4-Nitrophenol	80.0	48.3		ug/L		60	1 - 132
Acenaphthene	40.0	27.6		ug/L		69	47 - 145
Acenaphthylene	40.0	31.5		ug/L		79	33 - 145
Anthracene	40.0	40.6		ug/L		101	27 - 133
Benzidine	40.0	ND		ug/L		23	1 - 120
Benzo[a]anthracene	40.0	42.5		ug/L		106	33 - 143
Benzo[a]pyrene	40.0	41.4		ug/L		104	17 - 163
Benzo[b]fluoranthene	40.0	41.8		ug/L		105	24 - 159
Benzo[g,h,i]perylene	40.0	44.5		ug/L		111	1 - 219
Benzo[k]fluoranthene	40.0	42.3		ug/L		106	11 - 162
Bis(2-chloroethoxy)methane	40.0	38.1		ug/L		95	33 - 184
Bis(2-chloroethyl)ether	40.0	34.6		ug/L		87	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-738608/2-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	43.8		ug/L		109	8 - 158
Butyl benzyl phthalate	40.0	43.8		ug/L		110	1 - 152
Chrysene	40.0	40.7		ug/L		102	17 - 168
Di-n-butyl phthalate	40.0	43.9		ug/L		110	1 - 120
Di-n-octyl phthalate	40.0	44.8		ug/L		112	4 - 146
Dibenz(a,h)anthracene	40.0	43.9		ug/L		110	1 - 227
Diethyl phthalate	40.0	44.2		ug/L		110	1 - 120
Dimethyl phthalate	40.0	42.9		ug/L		107	1 - 120
Fluoranthene	40.0	42.6		ug/L		106	26 - 137
Fluorene	40.0	35.2		ug/L		88	59 - 121
Hexachlorobenzene	40.0	40.8		ug/L		102	1 - 152
Hexachlorocyclopentadiene	40.0	14.5		ug/L		36	5 - 120
Hexachloroethane	40.0	14.9	*-	ug/L		37	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	43.6		ug/L		109	1 - 171
Isophorone	40.0	41.4		ug/L		104	21 - 196
N-Nitrosodi-n-propylamine	40.0	38.2		ug/L		95	1 - 230
N-Nitrosodiphenylamine	40.0	41.2		ug/L		103	54 - 125
Naphthalene	40.0	25.6		ug/L		64	21 - 133
Nitrobenzene	40.0	35.8		ug/L		89	35 - 180
Pentachlorophenol	80.0	80.5		ug/L		101	14 - 176
Phenanthrene	40.0	40.9		ug/L		102	54 - 120
Phenol	40.0	16.5		ug/L		41	5 - 120
Pyrene	40.0	41.1		ug/L		103	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*52 - 151*
2-Fluorobiphenyl	*93*		*44 - 120*
2-Fluorophenol (Surr)	*57*		*17 - 120*
Nitrobenzene-d5 (Surr)	*93*		*15 - 314*
p-Terphenyl-d14 (Surr)	*100*		*22 - 125*
Phenol-d5 (Surr)	*41*		*8 - 424*

Lab Sample ID: LCSD 480-738608/3-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 738608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	18.5		ug/L		46	44 - 142	5	34
1,2-Dichlorobenzene	40.0	20.4		ug/L		51	32 - 129	1	38
1,3-Dichlorobenzene	40.0	17.8		ug/L		45	1 - 172	2	37
1,4-Dichlorobenzene	40.0	18.6		ug/L		46	20 - 124	3	40
2,2'-Oxybis(1-chloropropane)	40.0	33.4		ug/L		83	36 - 166	4	36
2,4,6-Trichlorophenol	40.0	40.3		ug/L		101	37 - 144	5	20
2,4-Dichlorophenol	40.0	40.0		ug/L		100	39 - 135	2	23
2,4-Dimethylphenol	40.0	40.0		ug/L		100	32 - 120	2	18
2,4-Dinitrophenol	80.0	91.6		ug/L		115	1 - 191	2	29
2,4-Dinitrotoluene	40.0	44.4		ug/L		111	39 - 139	4	20
2,6-Dinitrotoluene	40.0	41.9		ug/L		105	50 - 158	2	17

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-738608/3-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 738608

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloronaphthalene			40.0	23.2	*-	ug/L		58	60 - 120	2	30
2-Chlorophenol			40.0	36.7		ug/L		92	23 - 134	7	26
2-Nitrophenol			40.0	39.7		ug/L		99	29 - 182	2	28
3,3'-Dichlorobenzidine			40.0	33.5		ug/L		84	1 - 262	3	31
4,6-Dinitro-2-methylphenol			80.0	87.6		ug/L		110	1 - 181	2	30
4-Bromophenyl phenyl ether			40.0	38.3		ug/L		96	53 - 127	1	16
4-Chloro-3-methylphenol			40.0	41.6		ug/L		104	22 - 147	1	16
4-Chlorophenyl phenyl ether			40.0	33.2		ug/L		83	25 - 158	4	15
4-Nitrophenol			80.0	48.5		ug/L		61	1 - 132	0	24
Acenaphthene			40.0	29.2		ug/L		73	47 - 145	6	25
Acenaphthylene			40.0	32.0		ug/L		80	33 - 145	2	22
Anthracene			40.0	41.7		ug/L		104	27 - 133	3	15
Benzidine			40.0	ND		ug/L		17	1 - 120	31	50
Benzo[a]anthracene			40.0	43.0		ug/L		108	33 - 143	1	15
Benzo[a]pyrene			40.0	41.2		ug/L		103	17 - 163	1	15
Benzo[b]fluoranthene			40.0	40.5		ug/L		101	24 - 159	3	17
Benzo[g,h,i]perylene			40.0	44.3		ug/L		111	1 - 219	0	19
Benzo[k]fluoranthene			40.0	43.3		ug/L		108	11 - 162	2	19
Bis(2-chloroethoxy)methane			40.0	37.8		ug/L		95	33 - 184	1	23
Bis(2-chloroethyl)ether			40.0	36.4		ug/L		91	12 - 158	5	33
Bis(2-ethylhexyl) phthalate			40.0	43.5		ug/L		109	8 - 158	1	15
Butyl benzyl phthalate			40.0	43.4		ug/L		108	1 - 152	1	15
Chrysene			40.0	41.0		ug/L		102	17 - 168	1	15
Di-n-butyl phthalate			40.0	45.5		ug/L		114	1 - 120	4	15
Di-n-octyl phthalate			40.0	44.3		ug/L		111	4 - 146	1	15
Dibenz(a,h)anthracene			40.0	44.7		ug/L		112	1 - 227	2	18
Diethyl phthalate			40.0	44.1		ug/L		110	1 - 120	0	15
Dimethyl phthalate			40.0	43.5		ug/L		109	1 - 120	1	15
Fluoranthene			40.0	43.3		ug/L		108	26 - 137	2	15
Fluorene			40.0	35.5		ug/L		89	59 - 121	1	18
Hexachlorobenzene			40.0	40.6		ug/L		102	1 - 152	0	15
Hexachlorocyclopentadiene			40.0	12.5		ug/L		31	5 - 120	15	50
Hexachloroethane			40.0	15.6	*-	ug/L		39	40 - 120	5	43
Indeno[1,2,3-cd]pyrene			40.0	43.6		ug/L		109	1 - 171	0	17
Isophorone			40.0	41.7		ug/L		104	21 - 196	1	21
N-Nitrosodi-n-propylamine			40.0	39.5		ug/L		99	1 - 230	3	23
N-Nitrosodiphenylamine			40.0	41.7		ug/L		104	54 - 125	1	15
Naphthalene			40.0	24.8		ug/L		62	21 - 133	3	31
Nitrobenzene			40.0	35.4		ug/L		88	35 - 180	1	27
Pentachlorophenol			80.0	87.0		ug/L		109	14 - 176	8	21
Phenanthrene			40.0	42.4		ug/L		106	54 - 120	4	16
Phenol			40.0	16.8		ug/L		42	5 - 120	2	36
Pyrene			40.0	41.3		ug/L		103	52 - 120	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*105*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol (Surr)	*60*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-738608/3-A
Matrix: Water
Analysis Batch: 738678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 738608

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*90*		*15 - 314*
p-Terphenyl-d14 (Surr)	*101*		*22 - 125*
Phenol-d5 (Surr)	*42*		*8 - 424*

Lab Sample ID: MB 480-738935/1-A
Matrix: Water
Analysis Batch: 739000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		02/13/25 13:46	02/14/25 11:29	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		02/13/25 13:46	02/14/25 11:29	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		02/13/25 13:46	02/14/25 11:29	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		02/13/25 13:46	02/14/25 11:29	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		02/13/25 13:46	02/14/25 11:29	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		02/13/25 13:46	02/14/25 11:29	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		02/13/25 13:46	02/14/25 11:29	1
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		02/13/25 13:46	02/14/25 11:29	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		02/13/25 13:46	02/14/25 11:29	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		02/13/25 13:46	02/14/25 11:29	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		02/13/25 13:46	02/14/25 11:29	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		02/13/25 13:46	02/14/25 11:29	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		02/13/25 13:46	02/14/25 11:29	1
2-Chlorophenol	ND		5.0	0.17	ug/L		02/13/25 13:46	02/14/25 11:29	1
2-Nitrophenol	ND		5.0	0.18	ug/L		02/13/25 13:46	02/14/25 11:29	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/13/25 13:46	02/14/25 11:29	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		02/13/25 13:46	02/14/25 11:29	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		02/13/25 13:46	02/14/25 11:29	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		02/13/25 13:46	02/14/25 11:29	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		02/13/25 13:46	02/14/25 11:29	1
4-Nitrophenol	ND		15	0.49	ug/L		02/13/25 13:46	02/14/25 11:29	1
Acenaphthene	ND		5.0	0.20	ug/L		02/13/25 13:46	02/14/25 11:29	1
Acenaphthylene	ND		5.0	0.22	ug/L		02/13/25 13:46	02/14/25 11:29	1
Anthracene	ND		5.0	0.35	ug/L		02/13/25 13:46	02/14/25 11:29	1
Benzidine	ND		80	14	ug/L		02/13/25 13:46	02/14/25 11:29	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		02/13/25 13:46	02/14/25 11:29	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		02/13/25 13:46	02/14/25 11:29	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		02/13/25 13:46	02/14/25 11:29	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		02/13/25 13:46	02/14/25 11:29	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		02/13/25 13:46	02/14/25 11:29	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		02/13/25 13:46	02/14/25 11:29	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		02/13/25 13:46	02/14/25 11:29	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		02/13/25 13:46	02/14/25 11:29	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		02/13/25 13:46	02/14/25 11:29	1
Chrysene	ND		5.0	0.25	ug/L		02/13/25 13:46	02/14/25 11:29	1
Decane	ND		10	0.40	ug/L		02/13/25 13:46	02/14/25 11:29	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		02/13/25 13:46	02/14/25 11:29	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		02/13/25 13:46	02/14/25 11:29	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		02/13/25 13:46	02/14/25 11:29	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-738935/1-A
Matrix: Water
Analysis Batch: 739000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		5.0	0.25	ug/L		02/13/25 13:46	02/14/25 11:29	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		02/13/25 13:46	02/14/25 11:29	1
Fluoranthene	ND		5.0	0.40	ug/L		02/13/25 13:46	02/14/25 11:29	1
Fluorene	ND		5.0	0.25	ug/L		02/13/25 13:46	02/14/25 11:29	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		02/13/25 13:46	02/14/25 11:29	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		02/13/25 13:46	02/14/25 11:29	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		02/13/25 13:46	02/14/25 11:29	1
Hexachloroethane	ND		5.0	0.15	ug/L		02/13/25 13:46	02/14/25 11:29	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		02/13/25 13:46	02/14/25 11:29	1
Isophorone	ND		5.0	0.19	ug/L		02/13/25 13:46	02/14/25 11:29	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		02/13/25 13:46	02/14/25 11:29	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		02/13/25 13:46	02/14/25 11:29	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		02/13/25 13:46	02/14/25 11:29	1
Naphthalene	ND		5.0	0.22	ug/L		02/13/25 13:46	02/14/25 11:29	1
Nitrobenzene	ND		5.0	0.20	ug/L		02/13/25 13:46	02/14/25 11:29	1
Pentachlorophenol	ND		10	0.79	ug/L		02/13/25 13:46	02/14/25 11:29	1
Phenanthrene	ND		5.0	0.30	ug/L		02/13/25 13:46	02/14/25 11:29	1
Phenol	ND		5.0	0.088	ug/L		02/13/25 13:46	02/14/25 11:29	1
Pyrene	ND		5.0	0.35	ug/L		02/13/25 13:46	02/14/25 11:29	1
n-Octadecane	ND		10	0.30	ug/L		02/13/25 13:46	02/14/25 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*52 - 151*	*02/13/25 13:46*	*02/14/25 11:29*	*1*
2-Fluorobiphenyl	*89*		*44 - 120*	*02/13/25 13:46*	*02/14/25 11:29*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*02/13/25 13:46*	*02/14/25 11:29*	*1*
Nitrobenzene-d5 (Surr)	*86*		*15 - 314*	*02/13/25 13:46*	*02/14/25 11:29*	*1*
p-Terphenyl-d14 (Surr)	*93*		*22 - 125*	*02/13/25 13:46*	*02/14/25 11:29*	*1*
Phenol-d5 (Surr)	*38*		*8 - 424*	*02/13/25 13:46*	*02/14/25 11:29*	*1*

Lab Sample ID: LCS 480-738935/2-A
Matrix: Water
Analysis Batch: 739000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	29.1		ug/L		73	44 - 142
1,2-Dichlorobenzene	40.0	27.8		ug/L		70	32 - 129
1,3-Dichlorobenzene	40.0	24.6		ug/L		62	1 - 172
1,4-Dichlorobenzene	40.0	26.2		ug/L		65	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	33.0		ug/L		82	36 - 166
2,4,6-Trichlorophenol	40.0	39.0		ug/L		98	37 - 144
2,4-Dichlorophenol	40.0	42.4		ug/L		106	39 - 135
2,4-Dimethylphenol	40.0	40.3		ug/L		101	32 - 120
2,4-Dinitrophenol	80.0	82.2		ug/L		103	1 - 191
2,4-Dinitrotoluene	40.0	43.0		ug/L		107	39 - 139
2,6-Dinitrotoluene	40.0	40.2		ug/L		100	50 - 158
2-Chloronaphthalene	40.0	34.2		ug/L		86	60 - 120
2-Chlorophenol	40.0	35.6		ug/L		89	23 - 134
2-Nitrophenol	40.0	40.6		ug/L		101	29 - 182

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-738935/2-A
Matrix: Water
Analysis Batch: 739000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	40.0	34.4		ug/L		86	1 - 262
4,6-Dinitro-2-methylphenol	80.0	90.9		ug/L		114	1 - 181
4-Bromophenyl phenyl ether	40.0	42.2		ug/L		106	53 - 127
4-Chloro-3-methylphenol	40.0	42.4		ug/L		106	22 - 147
4-Chlorophenyl phenyl ether	40.0	40.4		ug/L		101	25 - 158
4-Nitrophenol	80.0	44.0		ug/L		55	1 - 132
Acenaphthene	40.0	37.0		ug/L		93	47 - 145
Acenaphthylene	40.0	40.0		ug/L		100	33 - 145
Anthracene	40.0	42.6		ug/L		107	27 - 133
Benzidine	40.0	ND		ug/L		32	1 - 120
Benzo[a]anthracene	40.0	42.1		ug/L		105	33 - 143
Benzo[a]pyrene	40.0	42.6		ug/L		107	17 - 163
Benzo[b]fluoranthene	40.0	40.0		ug/L		100	24 - 159
Benzo[g,h,i]perylene	40.0	44.7		ug/L		112	1 - 219
Benzo[k]fluoranthene	40.0	44.4		ug/L		111	11 - 162
Bis(2-chloroethoxy)methane	40.0	38.3		ug/L		96	33 - 184
Bis(2-chloroethyl)ether	40.0	36.0		ug/L		90	12 - 158
Bis(2-ethylhexyl) phthalate	40.0	42.8		ug/L		107	8 - 158
Butyl benzyl phthalate	40.0	43.0		ug/L		107	1 - 152
Chrysene	40.0	42.0		ug/L		105	17 - 168
Di-n-butyl phthalate	40.0	45.0		ug/L		113	1 - 120
Di-n-octyl phthalate	40.0	43.7		ug/L		109	4 - 146
Dibenz(a,h)anthracene	40.0	44.8		ug/L		112	1 - 227
Diethyl phthalate	40.0	43.6		ug/L		109	1 - 120
Dimethyl phthalate	40.0	43.0		ug/L		108	1 - 120
Fluoranthene	40.0	43.8		ug/L		109	26 - 137
Fluorene	40.0	39.8		ug/L		99	59 - 121
Hexachlorobenzene	40.0	44.7		ug/L		112	1 - 152
Hexachlorocyclopentadiene	40.0	25.5		ug/L		64	5 - 120
Hexachloroethane	40.0	25.1		ug/L		63	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	45.5		ug/L		114	1 - 171
Isophorone	40.0	42.3		ug/L		106	21 - 196
N-Nitrosodi-n-propylamine	40.0	39.2		ug/L		98	1 - 230
N-Nitrosodiphenylamine	40.0	40.5		ug/L		101	54 - 125
Naphthalene	40.0	34.5		ug/L		86	21 - 133
Nitrobenzene	40.0	37.5		ug/L		94	35 - 180
Pentachlorophenol	80.0	82.3		ug/L		103	14 - 176
Phenanthrene	40.0	43.0		ug/L		107	54 - 120
Phenol	40.0	15.8		ug/L		40	5 - 120
Pyrene	40.0	40.5		ug/L		101	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*109*		*52 - 151*
2-Fluorobiphenyl	*96*		*44 - 120*
2-Fluorophenol (Surr)	*58*		*17 - 120*
Nitrobenzene-d5 (Surr)	*93*		*15 - 314*
p-Terphenyl-d14 (Surr)	*96*		*22 - 125*
Phenol-d5 (Surr)	*39*		*8 - 424*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-738935/3-A
Matrix: Water
Analysis Batch: 739000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 738935

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	40.0	28.8		ug/L		72	44 - 142	1	34
1,2-Dichlorobenzene	40.0	28.4		ug/L		71	32 - 129	2	38
1,3-Dichlorobenzene	40.0	25.8		ug/L		65	1 - 172	5	37
1,4-Dichlorobenzene	40.0	26.7		ug/L		67	20 - 124	2	40
2,2'-Oxybis(1-chloropropane)	40.0	32.7		ug/L		82	36 - 166	1	36
2,4,6-Trichlorophenol	40.0	39.4		ug/L		98	37 - 144	1	20
2,4-Dichlorophenol	40.0	38.8		ug/L		97	39 - 135	9	23
2,4-Dimethylphenol	40.0	38.6		ug/L		97	32 - 120	4	18
2,4-Dinitrophenol	80.0	85.9		ug/L		107	1 - 191	4	29
2,4-Dinitrotoluene	40.0	40.9		ug/L		102	39 - 139	5	20
2,6-Dinitrotoluene	40.0	40.5		ug/L		101	50 - 158	1	17
2-Chloronaphthalene	40.0	34.4		ug/L		86	60 - 120	0	30
2-Chlorophenol	40.0	34.6		ug/L		87	23 - 134	3	26
2-Nitrophenol	40.0	36.5		ug/L		91	29 - 182	11	28
3,3'-Dichlorobenzidine	40.0	33.9		ug/L		85	1 - 262	1	31
4,6-Dinitro-2-methylphenol	80.0	81.1		ug/L		101	1 - 181	11	30
4-Bromophenyl phenyl ether	40.0	39.3		ug/L		98	53 - 127	7	16
4-Chloro-3-methylphenol	40.0	40.4		ug/L		101	22 - 147	5	16
4-Chlorophenyl phenyl ether	40.0	38.4		ug/L		96	25 - 158	5	15
4-Nitrophenol	80.0	46.5		ug/L		58	1 - 132	5	24
Acenaphthene	40.0	35.4		ug/L		88	47 - 145	4	25
Acenaphthylene	40.0	37.9		ug/L		95	33 - 145	5	22
Anthracene	40.0	39.2		ug/L		98	27 - 133	8	15
Benzidine	40.0	ND	*1	ug/L		15	1 - 120	72	50
Benzo[a]anthracene	40.0	40.1		ug/L		100	33 - 143	5	15
Benzo[a]pyrene	40.0	39.4		ug/L		99	17 - 163	8	15
Benzo[b]fluoranthene	40.0	37.7		ug/L		94	24 - 159	6	17
Benzo[g,h,i]perylene	40.0	41.6		ug/L		104	1 - 219	7	19
Benzo[k]fluoranthene	40.0	39.9		ug/L		100	11 - 162	11	19
Bis(2-chloroethoxy)methane	40.0	36.6		ug/L		91	33 - 184	5	23
Bis(2-chloroethyl)ether	40.0	34.5		ug/L		86	12 - 158	4	33
Bis(2-ethylhexyl) phthalate	40.0	40.9		ug/L		102	8 - 158	5	15
Butyl benzyl phthalate	40.0	40.8		ug/L		102	1 - 152	5	15
Chrysene	40.0	39.0		ug/L		97	17 - 168	8	15
Di-n-butyl phthalate	40.0	42.2		ug/L		106	1 - 120	6	15
Di-n-octyl phthalate	40.0	41.3		ug/L		103	4 - 146	6	15
Dibenz(a,h)anthracene	40.0	41.7		ug/L		104	1 - 227	7	18
Diethyl phthalate	40.0	42.1		ug/L		105	1 - 120	4	15
Dimethyl phthalate	40.0	41.8		ug/L		105	1 - 120	3	15
Fluoranthene	40.0	40.0		ug/L		100	26 - 137	9	15
Fluorene	40.0	39.3		ug/L		98	59 - 121	1	18
Hexachlorobenzene	40.0	40.1		ug/L		100	1 - 152	11	15
Hexachlorocyclopentadiene	40.0	26.8		ug/L		67	5 - 120	5	50
Hexachloroethane	40.0	24.4		ug/L		61	40 - 120	3	43
Indeno[1,2,3-cd]pyrene	40.0	41.5		ug/L		104	1 - 171	9	17
Isophorone	40.0	39.2		ug/L		98	21 - 196	7	21
N-Nitrosodi-n-propylamine	40.0	37.3		ug/L		93	1 - 230	5	23
N-Nitrosodiphenylamine	40.0	37.3		ug/L		93	54 - 125	8	15

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-738935/3-A
Matrix: Water
Analysis Batch: 739000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 738935

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			40.0	32.5		ug/L		81	21 - 133	6	31
Nitrobenzene			40.0	35.8		ug/L		89	35 - 180	5	27
Pentachlorophenol			80.0	73.5		ug/L		92	14 - 176	11	21
Phenanthrene			40.0	39.6		ug/L		99	54 - 120	8	16
Phenol			40.0	15.6		ug/L		39	5 - 120	1	36
Pyrene			40.0	37.9		ug/L		95	52 - 120	7	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*52 - 151*
2-Fluorobiphenyl	*90*		*44 - 120*
2-Fluorophenol (Surr)	*59*		*17 - 120*
Nitrobenzene-d5 (Surr)	*88*		*15 - 314*
p-Terphenyl-d14 (Surr)	*91*		*22 - 125*
Phenol-d5 (Surr)	*40*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-738511/1-A
Matrix: Water
Analysis Batch: 738811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738511

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		02/06/25 12:00	02/10/25 14:18	1

Lab Sample ID: LCS 480-738511/2-A
Matrix: Water
Analysis Batch: 738811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738511

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Zinc			0.500	0.545		mg/L		109	85 - 115		

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-738702/1-A
Matrix: Water
Analysis Batch: 738755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 738702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		02/11/25 08:12	02/11/25 13:11	1

Lab Sample ID: LCS 480-738702/2-A
Matrix: Water
Analysis Batch: 738755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 738702

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00669	0.00644		mg/L		96	85 - 115		

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-738767/21
Matrix: Water
Analysis Batch: 738767

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			02/11/25 15:30	1

Lab Sample ID: MB 480-738767/47
Matrix: Water
Analysis Batch: 738767

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0041	mg/L			02/11/25 16:57	1

Lab Sample ID: HLCS 480-738767/22
Matrix: Water
Analysis Batch: 738767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.393		mg/L		98	90 - 110		

Lab Sample ID: LCS 480-738767/23
Matrix: Water
Analysis Batch: 738767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.248		mg/L		99	90 - 110		

Lab Sample ID: LCS 480-738767/48
Matrix: Water
Analysis Batch: 738767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.244		mg/L		97	90 - 110		

Lab Sample ID: 480-227177-5 MS
Matrix: Wastewater
Analysis Batch: 738767

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.12		0.100	0.222		mg/L		98	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-738520/1
Matrix: Water
Analysis Batch: 738520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-227177-1

GC/MS VOA

Analysis Batch: 738553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	624.1	
480-227177-6	TRIP BLANK	Total/NA	WQ	624.1	
MB 480-738553/8	Method Blank	Total/NA	Water	624.1	
LCS 480-738553/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 738608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-738608/1-A	Method Blank	Total/NA	Water	625	
LCS 480-738608/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-738608/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 738678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	625.1	738608
MB 480-738608/1-A	Method Blank	Total/NA	Water	625.1	738608
LCS 480-738608/2-A	Lab Control Sample	Total/NA	Water	625.1	738608
LCSD 480-738608/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	738608

Prep Batch: 738935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5 - RE	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-738935/1-A	Method Blank	Total/NA	Water	625	
LCS 480-738935/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-738935/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 739000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5 - RE	001 LAB COMP	Total/NA	Wastewater	625.1	738935
MB 480-738935/1-A	Method Blank	Total/NA	Water	625.1	738935
LCS 480-738935/2-A	Lab Control Sample	Total/NA	Water	625.1	738935
LCSD 480-738935/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	738935

Metals

Prep Batch: 738511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	200.7	
MB 480-738511/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-738511/2-A	Lab Control Sample	Total/NA	Water	200.7	

Prep Batch: 738702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 480-738702/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-738702/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 738755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	245.1	738702

Metals (Continued)

Analysis Batch: 738755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-738702/1-A	Method Blank	Total/NA	Water	245.1	738702
LCS 480-738702/2-A	Lab Control Sample	Total/NA	Water	245.1	738702

Analysis Batch: 738811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	738511
MB 480-738511/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	738511
LCS 480-738511/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	738511

General Chemistry

Analysis Batch: 738520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-738520/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 738767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227177-5	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-738767/21	Method Blank	Total/NA	Water	335.4	
MB 480-738767/47	Method Blank	Total/NA	Water	335.4	
HLCS 480-738767/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-738767/23	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-738767/48	Lab Control Sample	Total/NA	Water	335.4	
480-227177-5 MS	001 LAB COMP	Total/NA	Wastewater	335.4	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-227177-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: 001 LAB COMP
Lab Sample ID: 480-227177-5
Date Collected: 02/05/25 00:00
Matrix: Wastewater
Date Received: 02/05/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	738553	AXK	EET BUF	02/07/25 03:36
Total/NA	Prep	625			738608	LSC	EET BUF	02/07/25 14:12
Total/NA	Analysis	625.1		1	738678	AF	EET BUF	02/10/25 21:57
Total/NA	Prep	625	RE		738935	LSC	EET BUF	02/13/25 13:46
Total/NA	Analysis	625.1	RE	1	739000	JMM	EET BUF	02/14/25 12:42
Total/NA	Prep	200.7			738511	ET	EET BUF	02/06/25 12:00
Total/NA	Analysis	200.7 Rev 4.4		1	738811	BMB	EET BUF	02/10/25 14:56
Total/NA	Prep	245.1			738702	ESB	EET BUF	02/11/25 08:13
Total/NA	Analysis	245.1		1	738755	ESB	EET BUF	02/11/25 13:38
Total/NA	Analysis	335.4		1	738767	GW	EET BUF	02/11/25 17:03
Total/NA	Analysis	SM 4500 H+ B		1	738520	AB	EET BUF	02/06/25 11:42

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-227177-6
Date Collected: 02/05/25 00:00
Matrix: WQ
Date Received: 02/05/25 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	738553	AXK	EET BUF	02/07/25 04:00

Laboratory References:
EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-227177-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Job ID: 480-227177-1
Project/Site: Iroquois Gas/Westwood Pharm.

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Job ID: 480-227177-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227177-5	001 LAB COMP	Wastewater	02/05/25 00:00	02/05/25 13:30
480-227177-6	TRIP BLANK	WQ	02/05/25 00:00	02/05/25 13:30

Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193800-34075.1
Client Contact: Jason Gutkowski	Phone: 315 436 3605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis US Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard Turn			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 30240051			
Email: jason.gutkowski@arcadis.com	WO #: 30003542-00001			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	Project #: 48011056			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes: N - None; D - HNO3; B - NaOH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	2/5/25	0650	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2	2/5/25	0850		Water			X	X	X	X	X		
001-3	2/5/25	1050					X	X	X	X	X		
001-4	2/5/25	1250					X	X	X	X	X		
Trip Blank	2/5/25	—						X					Short Hold Time

480-227177 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time:

Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	2/5/25 1313	Arcadis	[signature]	2/5/25 1330	TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.7 IR#5c ICE

Ver: 10/10/2024

2/18/2025

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-227177-1

Login Number: 227177
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 3/13/2025 4:43:27 PM

JOB DESCRIPTION

Monthly Testing
Monthly Testing

JOB NUMBER

480-227683-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

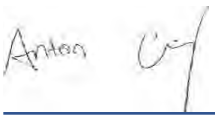
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
3/13/2025 4:43:27 PM

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 13
QC Association Summary 22
Lab Chronicle 24
Certification Summary 25
Method Summary 26
Sample Summary 27
Chain of Custody 28
Receipt Checklists 29

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-227683-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/5/2025 1:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

GC/MS VOA
Method 624.1_PREC: The following Volatile sample was composited by the laboratory on 03/05/2025 as requested by the client: 001 LAB COMP (480-227683-5). Regulatory defined guidance for in-laboratory compositing of samples, is currently not available. Laboratory sample compositing was performed using established project specifications and/or laboratory standard operating procedures.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-740387 and analytical batch 480-740496 were below the method detection limit (MDL) for Benzidine; therefore, percent recovery and RPD could not be calculated. The associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 335.4_NP: The continuing calibration verification (CCV) associated with batch 480-740685 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 001 LAB COMP (480-227683-5).

Method SM4500_H+: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 001 LAB COMP (480-227683-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Client Sample ID: 001 LAB COMP — Lab Sample ID: 480-227683-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyanide, Total	0.16	B	0.010	0.0041	mg/L	1		335.4	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	19.7	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-227683-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 001 LAB COMP

Date Collected: 03/05/25 00:00
Date Received: 03/05/25 13:35

Lab Sample ID: 480-227683-5

Matrix: Wastewater

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/05/25 21:47	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/05/25 21:47	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/05/25 21:47	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/05/25 21:47	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/05/25 21:47	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/05/25 21:47	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/05/25 21:47	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/05/25 21:47	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/05/25 21:47	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/05/25 21:47	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/05/25 21:47	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/05/25 21:47	1
Acrolein	ND		100	17	ug/L			03/05/25 21:47	1
Acrylonitrile	ND		50	1.9	ug/L			03/05/25 21:47	1
Benzene	ND		5.0	0.60	ug/L			03/05/25 21:47	1
Bromoform	ND		5.0	0.47	ug/L			03/05/25 21:47	1
Bromomethane	ND		5.0	1.2	ug/L			03/05/25 21:47	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/05/25 21:47	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/05/25 21:47	1
Dibromochloromethane	ND		5.0	0.41	ug/L			03/05/25 21:47	1
Chloroethane	ND		5.0	0.87	ug/L			03/05/25 21:47	1
Chloroform	ND		5.0	0.54	ug/L			03/05/25 21:47	1
Chloromethane	ND		5.0	0.64	ug/L			03/05/25 21:47	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/05/25 21:47	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/05/25 21:47	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			03/05/25 21:47	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/05/25 21:47	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/05/25 21:47	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/05/25 21:47	1
Toluene	ND		5.0	0.45	ug/L			03/05/25 21:47	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/05/25 21:47	1
Trichloroethene	ND		5.0	0.60	ug/L			03/05/25 21:47	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			03/05/25 21:47	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/05/25 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*68 - 130*		*03/05/25 21:47*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 123*		*03/05/25 21:47*	*1*
Toluene-d8 (Surr)	*105*		*77 - 120*		*03/05/25 21:47*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*03/05/25 21:47*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.5	0.20	ug/L		03/10/25 09:58	03/11/25 12:55	1
1,2-Dichlorobenzene	ND		9.5	0.25	ug/L		03/10/25 09:58	03/11/25 12:55	1
1,2-Diphenylhydrazine	ND		9.5	0.19	ug/L		03/10/25 09:58	03/11/25 12:55	1
1,3-Dichlorobenzene	ND		9.5	0.16	ug/L		03/10/25 09:58	03/11/25 12:55	1
1,4-Dichlorobenzene	ND		9.5	0.20	ug/L		03/10/25 09:58	03/11/25 12:55	1
2,2'-Oxybis(1-chloropropane)	ND		4.8	0.20	ug/L		03/10/25 09:58	03/11/25 12:55	1
2,4,6-Trichlorophenol	ND		4.8	0.24	ug/L		03/10/25 09:58	03/11/25 12:55	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Client Sample ID: 001 LAB COMP
Date Collected: 03/05/25 00:00
Date Received: 03/05/25 13:35

Lab Sample ID: 480-227683-5
Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		4.8	0.18	ug/L		03/10/25 09:58	03/11/25 12:55	1
2,4-Dimethylphenol	ND		4.8	0.33	ug/L		03/10/25 09:58	03/11/25 12:55	1
2,4-Dinitrophenol	ND		9.5	1.2	ug/L		03/10/25 09:58	03/11/25 12:55	1
2,4-Dinitrotoluene	ND		9.5	0.38	ug/L		03/10/25 09:58	03/11/25 12:55	1
2,6-Dinitrotoluene	ND		4.8	0.24	ug/L		03/10/25 09:58	03/11/25 12:55	1
2-Chloronaphthalene	ND		4.8	0.22	ug/L		03/10/25 09:58	03/11/25 12:55	1
2-Chlorophenol	ND		4.8	0.16	ug/L		03/10/25 09:58	03/11/25 12:55	1
2-Nitrophenol	ND		4.8	0.17	ug/L		03/10/25 09:58	03/11/25 12:55	1
3,3'-Dichlorobenzidine	ND		4.8	0.38	ug/L		03/10/25 09:58	03/11/25 12:55	1
4,6-Dinitro-2-methylphenol	ND		9.5	0.43	ug/L		03/10/25 09:58	03/11/25 12:55	1
4-Bromophenyl phenyl ether	ND		4.8	0.33	ug/L		03/10/25 09:58	03/11/25 12:55	1
4-Chloro-3-methylphenol	ND		4.8	0.26	ug/L		03/10/25 09:58	03/11/25 12:55	1
4-Chlorophenyl phenyl ether	ND		4.8	0.31	ug/L		03/10/25 09:58	03/11/25 12:55	1
4-Nitrophenol	ND		14	0.46	ug/L		03/10/25 09:58	03/11/25 12:55	1
Acenaphthene	ND		4.8	0.19	ug/L		03/10/25 09:58	03/11/25 12:55	1
Acenaphthylene	ND		4.8	0.21	ug/L		03/10/25 09:58	03/11/25 12:55	1
Anthracene	ND		4.8	0.33	ug/L		03/10/25 09:58	03/11/25 12:55	1
Benzidine	ND	F1	76	13	ug/L		03/10/25 09:58	03/11/25 12:55	1
Benzo[a]anthracene	ND		4.8	0.26	ug/L		03/10/25 09:58	03/11/25 12:55	1
Benzo[a]pyrene	ND		4.8	0.31	ug/L		03/10/25 09:58	03/11/25 12:55	1
Benzo[b]fluoranthene	ND		4.8	0.29	ug/L		03/10/25 09:58	03/11/25 12:55	1
Benzo[g,h,i]perylene	ND		4.8	0.36	ug/L		03/10/25 09:58	03/11/25 12:55	1
Benzo[k]fluoranthene	ND		4.8	0.31	ug/L		03/10/25 09:58	03/11/25 12:55	1
Bis(2-chloroethoxy)methane	ND		4.8	0.18	ug/L		03/10/25 09:58	03/11/25 12:55	1
Bis(2-chloroethyl)ether	ND		4.8	0.22	ug/L		03/10/25 09:58	03/11/25 12:55	1
Bis(2-ethylhexyl) phthalate	ND		9.5	0.29	ug/L		03/10/25 09:58	03/11/25 12:55	1
Butyl benzyl phthalate	ND		4.8	0.26	ug/L		03/10/25 09:58	03/11/25 12:55	1
Chrysene	ND		4.8	0.24	ug/L		03/10/25 09:58	03/11/25 12:55	1
Decane	ND		9.5	0.38	ug/L		03/10/25 09:58	03/11/25 12:55	1
Di-n-butyl phthalate	ND		4.8	0.38	ug/L		03/10/25 09:58	03/11/25 12:55	1
Di-n-octyl phthalate	ND		4.8	0.29	ug/L		03/10/25 09:58	03/11/25 12:55	1
Dibenz(a,h)anthracene	ND		4.8	0.36	ug/L		03/10/25 09:58	03/11/25 12:55	1
Diethyl phthalate	ND		4.8	0.24	ug/L		03/10/25 09:58	03/11/25 12:55	1
Dimethyl phthalate	ND		4.8	0.22	ug/L		03/10/25 09:58	03/11/25 12:55	1
Fluoranthene	ND		4.8	0.38	ug/L		03/10/25 09:58	03/11/25 12:55	1
Fluorene	ND		4.8	0.24	ug/L		03/10/25 09:58	03/11/25 12:55	1
Hexachlorobenzene	ND		4.8	0.24	ug/L		03/10/25 09:58	03/11/25 12:55	1
Hexachlorobutadiene	ND		4.8	0.24	ug/L		03/10/25 09:58	03/11/25 12:55	1
Hexachlorocyclopentadiene	ND		9.5	0.50	ug/L		03/10/25 09:58	03/11/25 12:55	1
Hexachloroethane	ND		4.8	0.14	ug/L		03/10/25 09:58	03/11/25 12:55	1
Indeno[1,2,3-cd]pyrene	ND		4.8	0.36	ug/L		03/10/25 09:58	03/11/25 12:55	1
Isophorone	ND		4.8	0.18	ug/L		03/10/25 09:58	03/11/25 12:55	1
N-Nitrosodi-n-propylamine	ND		4.8	0.21	ug/L		03/10/25 09:58	03/11/25 12:55	1
N-Nitrosodimethylamine	ND	F2	9.5	0.14	ug/L		03/10/25 09:58	03/11/25 12:55	1
N-Nitrosodiphenylamine	ND		4.8	0.20	ug/L		03/10/25 09:58	03/11/25 12:55	1
Naphthalene	ND		4.8	0.20	ug/L		03/10/25 09:58	03/11/25 12:55	1
Nitrobenzene	ND		4.8	0.19	ug/L		03/10/25 09:58	03/11/25 12:55	1
Pentachlorophenol	ND		9.5	0.75	ug/L		03/10/25 09:58	03/11/25 12:55	1
Phenanthrene	ND		4.8	0.29	ug/L		03/10/25 09:58	03/11/25 12:55	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Client Sample ID: 001 LAB COMP

Date Collected: 03/05/25 00:00
Date Received: 03/05/25 13:35

Lab Sample ID: 480-227683-5

Matrix: Wastewater

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		4.8	0.083	ug/L		03/10/25 09:58	03/11/25 12:55	1
Pyrene	ND		4.8	0.33	ug/L		03/10/25 09:58	03/11/25 12:55	1
n-Octadecane	ND		9.5	0.29	ug/L		03/10/25 09:58	03/11/25 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*52 - 151*	*03/10/25 09:58*	*03/11/25 12:55*	*1*
2-Fluorobiphenyl	*91*		*44 - 120*	*03/10/25 09:58*	*03/11/25 12:55*	*1*
2-Fluorophenol (Surr)	*51*		*17 - 120*	*03/10/25 09:58*	*03/11/25 12:55*	*1*
Nitrobenzene-d5 (Surr)	*89*		*15 - 314*	*03/10/25 09:58*	*03/11/25 12:55*	*1*
p-Terphenyl-d14 (Surr)	*88*		*22 - 125*	*03/10/25 09:58*	*03/11/25 12:55*	*1*
Phenol-d5 (Surr)	*35*		*8 - 424*	*03/10/25 09:58*	*03/11/25 12:55*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		03/07/25 08:23	03/10/25 13:45	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/12/25 11:59	03/13/25 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	**0.16**	**B**	0.010	0.0041	mg/L			03/12/25 17:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.2**	**HF**	0.1	0.1	SU			03/10/25 14:25	1
Temperature (SM 4500 H+ B)	**19.7**	**HF**	0.001	0.001	Degrees C			03/10/25 14:25	1

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Client Sample ID: TRIP BLANK

Date Collected: 03/05/25 00:00
Date Received: 03/05/25 13:35

Lab Sample ID: 480-227683-6

Matrix: WQ

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/05/25 22:11	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/05/25 22:11	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/05/25 22:11	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/05/25 22:11	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/05/25 22:11	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/05/25 22:11	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/05/25 22:11	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/05/25 22:11	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/05/25 22:11	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/05/25 22:11	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/05/25 22:11	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/05/25 22:11	1
Acrolein	ND		100	17	ug/L			03/05/25 22:11	1
Acrylonitrile	ND		50	1.9	ug/L			03/05/25 22:11	1
Benzene	ND		5.0	0.60	ug/L			03/05/25 22:11	1
Bromoform	ND		5.0	0.47	ug/L			03/05/25 22:11	1
Bromomethane	ND		5.0	1.2	ug/L			03/05/25 22:11	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/05/25 22:11	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/05/25 22:11	1
Dibromochloromethane	ND		5.0	0.41	ug/L			03/05/25 22:11	1
Chloroethane	ND		5.0	0.87	ug/L			03/05/25 22:11	1
Chloroform	ND		5.0	0.54	ug/L			03/05/25 22:11	1
Chloromethane	ND		5.0	0.64	ug/L			03/05/25 22:11	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/05/25 22:11	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/05/25 22:11	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			03/05/25 22:11	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/05/25 22:11	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/05/25 22:11	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/05/25 22:11	1
Toluene	ND		5.0	0.45	ug/L			03/05/25 22:11	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/05/25 22:11	1
Trichloroethene	ND		5.0	0.60	ug/L			03/05/25 22:11	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			03/05/25 22:11	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/05/25 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*68 - 130*		*03/05/25 22:11*	*1*
4-Bromofluorobenzene (Surr)	*108*		*76 - 123*		*03/05/25 22:11*	*1*
Toluene-d8 (Surr)	*106*		*77 - 120*		*03/05/25 22:11*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/05/25 22:11*	*1*

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-227683-5	001 LAB COMP	113	107	105	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
LCS 480-740121/6	Lab Control Sample	101	105	105	103
MB 480-740121/8	Method Blank	109	107	103	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	(75-123)
480-227683-6	TRIP BLANK	112	108	106	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)
480-227683-5	001 LAB COMP	85	91	51	89	88	35
480-227683-5 MS	001 LAB COMP	103	95	49	93	91	35
480-227683-5 MSD	001 LAB COMP	104	104	55	97	87	36

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

PHL = Phenol-d5 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	TPHd14	PHL		
Lab Sample ID	Client Sample ID	(52-151)	(44-120)	(17-120)	(15-314)	(22-125)	(8-424)		
LCS 480-740387/2-A	Lab Control Sample	95	93	50	86	93	38		
MB 480-740387/1-A	Method Blank	82	84	50	79	94	36		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-740121/8
Matrix: Water
Analysis Batch: 740121

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/05/25 14:32	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/05/25 14:32	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/05/25 14:32	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/05/25 14:32	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/05/25 14:32	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/05/25 14:32	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/05/25 14:32	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/05/25 14:32	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/05/25 14:32	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/05/25 14:32	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/05/25 14:32	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/05/25 14:32	1
Acrolein	ND		100	17	ug/L			03/05/25 14:32	1
Acrylonitrile	ND		50	1.9	ug/L			03/05/25 14:32	1
Benzene	ND		5.0	0.60	ug/L			03/05/25 14:32	1
Bromoform	ND		5.0	0.47	ug/L			03/05/25 14:32	1
Bromomethane	ND		5.0	1.2	ug/L			03/05/25 14:32	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/05/25 14:32	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/05/25 14:32	1
Dibromochloromethane	ND		5.0	0.41	ug/L			03/05/25 14:32	1
Chloroethane	ND		5.0	0.87	ug/L			03/05/25 14:32	1
Chloroform	ND		5.0	0.54	ug/L			03/05/25 14:32	1
Chloromethane	ND		5.0	0.64	ug/L			03/05/25 14:32	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/05/25 14:32	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/05/25 14:32	1
Ethyl methacrylate	ND		5.0	0.61	ug/L			03/05/25 14:32	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/05/25 14:32	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/05/25 14:32	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/05/25 14:32	1
Toluene	ND		5.0	0.45	ug/L			03/05/25 14:32	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/05/25 14:32	1
Trichloroethene	ND		5.0	0.60	ug/L			03/05/25 14:32	1
Trichlorofluoromethane	ND		5.0	0.45	ug/L			03/05/25 14:32	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/05/25 14:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*68 - 130*		*03/05/25 14:32*	*1*
4-Bromofluorobenzene (Surr)	*107*		*76 - 123*		*03/05/25 14:32*	*1*
Toluene-d8 (Surr)	*103*		*77 - 120*		*03/05/25 14:32*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*03/05/25 14:32*	*1*

Lab Sample ID: LCS 480-740121/6
Matrix: Water
Analysis Batch: 740121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			20.0	18.4		ug/L		92	52 - 162		
1,1,2,2-Tetrachloroethane			20.0	18.5		ug/L		92	46 - 157		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-740121/6
Matrix: Water
Analysis Batch: 740121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	52 - 150
1,1-Dichloroethane	20.0	18.2		ug/L		91	59 - 155
1,1-Dichloroethene	20.0	17.9		ug/L		90	1 - 234
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	18 - 190
1,2-Dichloroethane	20.0	19.7		ug/L		98	49 - 155
1,2-Dichloropropane	20.0	19.3		ug/L		96	1 - 210
1,3-Dichlorobenzene	20.0	19.5		ug/L		98	59 - 156
1,4-Dichlorobenzene	20.0	19.7		ug/L		99	18 - 190
2-Chloroethyl vinyl ether	20.0	19.7	J	ug/L		98	1 - 305
Benzene	20.0	18.4		ug/L		92	37 - 151
Bromoform	20.0	21.1		ug/L		106	45 - 169
Bromomethane	20.0	23.0		ug/L		115	1 - 242
Carbon tetrachloride	20.0	17.5		ug/L		87	70 - 140
Chlorobenzene	20.0	19.4		ug/L		97	37 - 160
Dibromochloromethane	20.0	20.8		ug/L		104	53 - 149
Chloroethane	20.0	20.6		ug/L		103	14 - 230
Chloroform	20.0	18.6		ug/L		93	51 - 138
Chloromethane	20.0	22.9		ug/L		115	1 - 273
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	1 - 227
Bromodichloromethane	20.0	20.2		ug/L		101	35 - 155
Ethylbenzene	20.0	19.1		ug/L		96	37 - 162
Methylene Chloride	20.0	18.7		ug/L		93	1 - 221
Tetrachloroethene	20.0	18.9		ug/L		95	64 - 148
Toluene	20.0	18.6		ug/L		93	47 - 150
trans-1,3-Dichloropropene	20.0	19.3		ug/L		97	17 - 183
Trichloroethene	20.0	18.8		ug/L		94	71 - 157
Trichlorofluoromethane	20.0	21.8		ug/L		109	17 - 181
Vinyl chloride	20.0	21.2		ug/L		106	1 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*
4-Bromofluorobenzene (Surr)	*105*		*76 - 123*
Toluene-d8 (Surr)	*105*		*77 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-740387/1-A
Matrix: Water
Analysis Batch: 740496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.21	ug/L		03/10/25 09:58	03/11/25 10:57	1
1,2-Dichlorobenzene	ND		10	0.26	ug/L		03/10/25 09:58	03/11/25 10:57	1
1,2-Diphenylhydrazine	ND		10	0.20	ug/L		03/10/25 09:58	03/11/25 10:57	1
1,3-Dichlorobenzene	ND		10	0.17	ug/L		03/10/25 09:58	03/11/25 10:57	1
1,4-Dichlorobenzene	ND		10	0.21	ug/L		03/10/25 09:58	03/11/25 10:57	1
2,2'-Oxybis(1-chloropropane)	ND		5.0	0.21	ug/L		03/10/25 09:58	03/11/25 10:57	1
2,4,6-Trichlorophenol	ND		5.0	0.25	ug/L		03/10/25 09:58	03/11/25 10:57	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-740387/1-A
Matrix: Water
Analysis Batch: 740496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.19	ug/L		03/10/25 09:58	03/11/25 10:57	1
2,4-Dimethylphenol	ND		5.0	0.35	ug/L		03/10/25 09:58	03/11/25 10:57	1
2,4-Dinitrophenol	ND		10	1.3	ug/L		03/10/25 09:58	03/11/25 10:57	1
2,4-Dinitrotoluene	ND		10	0.40	ug/L		03/10/25 09:58	03/11/25 10:57	1
2,6-Dinitrotoluene	ND		5.0	0.25	ug/L		03/10/25 09:58	03/11/25 10:57	1
2-Chloronaphthalene	ND		5.0	0.23	ug/L		03/10/25 09:58	03/11/25 10:57	1
2-Chlorophenol	ND		5.0	0.17	ug/L		03/10/25 09:58	03/11/25 10:57	1
2-Nitrophenol	ND		5.0	0.18	ug/L		03/10/25 09:58	03/11/25 10:57	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		03/10/25 09:58	03/11/25 10:57	1
4,6-Dinitro-2-methylphenol	ND		10	0.45	ug/L		03/10/25 09:58	03/11/25 10:57	1
4-Bromophenyl phenyl ether	ND		5.0	0.35	ug/L		03/10/25 09:58	03/11/25 10:57	1
4-Chloro-3-methylphenol	ND		5.0	0.28	ug/L		03/10/25 09:58	03/11/25 10:57	1
4-Chlorophenyl phenyl ether	ND		5.0	0.33	ug/L		03/10/25 09:58	03/11/25 10:57	1
4-Nitrophenol	ND		15	0.49	ug/L		03/10/25 09:58	03/11/25 10:57	1
Acenaphthene	ND		5.0	0.20	ug/L		03/10/25 09:58	03/11/25 10:57	1
Acenaphthylene	ND		5.0	0.22	ug/L		03/10/25 09:58	03/11/25 10:57	1
Anthracene	ND		5.0	0.35	ug/L		03/10/25 09:58	03/11/25 10:57	1
Benzidine	ND		80	14	ug/L		03/10/25 09:58	03/11/25 10:57	1
Benzo[a]anthracene	ND		5.0	0.28	ug/L		03/10/25 09:58	03/11/25 10:57	1
Benzo[a]pyrene	ND		5.0	0.33	ug/L		03/10/25 09:58	03/11/25 10:57	1
Benzo[b]fluoranthene	ND		5.0	0.30	ug/L		03/10/25 09:58	03/11/25 10:57	1
Benzo[g,h,i]perylene	ND		5.0	0.38	ug/L		03/10/25 09:58	03/11/25 10:57	1
Benzo[k]fluoranthene	ND		5.0	0.33	ug/L		03/10/25 09:58	03/11/25 10:57	1
Bis(2-chloroethoxy)methane	ND		5.0	0.19	ug/L		03/10/25 09:58	03/11/25 10:57	1
Bis(2-chloroethyl)ether	ND		5.0	0.23	ug/L		03/10/25 09:58	03/11/25 10:57	1
Bis(2-ethylhexyl) phthalate	ND		10	0.30	ug/L		03/10/25 09:58	03/11/25 10:57	1
Butyl benzyl phthalate	ND		5.0	0.28	ug/L		03/10/25 09:58	03/11/25 10:57	1
Chrysene	ND		5.0	0.25	ug/L		03/10/25 09:58	03/11/25 10:57	1
Decane	ND		10	0.40	ug/L		03/10/25 09:58	03/11/25 10:57	1
Di-n-butyl phthalate	ND		5.0	0.40	ug/L		03/10/25 09:58	03/11/25 10:57	1
Di-n-octyl phthalate	ND		5.0	0.30	ug/L		03/10/25 09:58	03/11/25 10:57	1
Dibenz(a,h)anthracene	ND		5.0	0.38	ug/L		03/10/25 09:58	03/11/25 10:57	1
Diethyl phthalate	ND		5.0	0.25	ug/L		03/10/25 09:58	03/11/25 10:57	1
Dimethyl phthalate	ND		5.0	0.23	ug/L		03/10/25 09:58	03/11/25 10:57	1
Fluoranthene	ND		5.0	0.40	ug/L		03/10/25 09:58	03/11/25 10:57	1
Fluorene	ND		5.0	0.25	ug/L		03/10/25 09:58	03/11/25 10:57	1
Hexachlorobenzene	ND		5.0	0.25	ug/L		03/10/25 09:58	03/11/25 10:57	1
Hexachlorobutadiene	ND		5.0	0.25	ug/L		03/10/25 09:58	03/11/25 10:57	1
Hexachlorocyclopentadiene	ND		10	0.53	ug/L		03/10/25 09:58	03/11/25 10:57	1
Hexachloroethane	ND		5.0	0.15	ug/L		03/10/25 09:58	03/11/25 10:57	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.38	ug/L		03/10/25 09:58	03/11/25 10:57	1
Isophorone	ND		5.0	0.19	ug/L		03/10/25 09:58	03/11/25 10:57	1
N-Nitrosodi-n-propylamine	ND		5.0	0.22	ug/L		03/10/25 09:58	03/11/25 10:57	1
N-Nitrosodimethylamine	ND		10	0.14	ug/L		03/10/25 09:58	03/11/25 10:57	1
N-Nitrosodiphenylamine	ND		5.0	0.21	ug/L		03/10/25 09:58	03/11/25 10:57	1
Naphthalene	ND		5.0	0.22	ug/L		03/10/25 09:58	03/11/25 10:57	1
Nitrobenzene	ND		5.0	0.20	ug/L		03/10/25 09:58	03/11/25 10:57	1
Pentachlorophenol	ND		10	0.79	ug/L		03/10/25 09:58	03/11/25 10:57	1
Phenanthrene	ND		5.0	0.30	ug/L		03/10/25 09:58	03/11/25 10:57	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-740387/1-A
Matrix: Water
Analysis Batch: 740496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740387

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		5.0	0.088	ug/L		03/10/25 09:58	03/11/25 10:57	1
Pyrene	ND		5.0	0.35	ug/L		03/10/25 09:58	03/11/25 10:57	1
n-Octadecane	ND		10	0.30	ug/L		03/10/25 09:58	03/11/25 10:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*52 - 151*	*03/10/25 09:58*	*03/11/25 10:57*	*1*
2-Fluorobiphenyl	*84*		*44 - 120*	*03/10/25 09:58*	*03/11/25 10:57*	*1*
2-Fluorophenol (Surr)	*50*		*17 - 120*	*03/10/25 09:58*	*03/11/25 10:57*	*1*
Nitrobenzene-d5 (Surr)	*79*		*15 - 314*	*03/10/25 09:58*	*03/11/25 10:57*	*1*
p-Terphenyl-d14 (Surr)	*94*		*22 - 125*	*03/10/25 09:58*	*03/11/25 10:57*	*1*
Phenol-d5 (Surr)	*36*		*8 - 424*	*03/10/25 09:58*	*03/11/25 10:57*	*1*

Lab Sample ID: LCS 480-740387/2-A
Matrix: Water
Analysis Batch: 740496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 740387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	40.0	24.7		ug/L		62	44 - 142
1,2-Dichlorobenzene	40.0	23.7		ug/L		59	32 - 129
1,3-Dichlorobenzene	40.0	22.5		ug/L		56	1 - 172
1,4-Dichlorobenzene	40.0	22.5		ug/L		56	20 - 124
2,2'-Oxybis(1-chloropropane)	40.0	32.5		ug/L		81	36 - 166
2,4,6-Trichlorophenol	40.0	36.6		ug/L		92	37 - 144
2,4-Dichlorophenol	40.0	37.2		ug/L		93	39 - 135
2,4-Dimethylphenol	40.0	37.1		ug/L		93	32 - 120
2,4-Dinitrophenol	80.0	79.7		ug/L		100	1 - 191
2,4-Dinitrotoluene	40.0	38.2		ug/L		95	39 - 139
2,6-Dinitrotoluene	40.0	38.9		ug/L		97	50 - 158
2-Chloronaphthalene	40.0	31.7		ug/L		79	60 - 120
2-Chlorophenol	40.0	31.0		ug/L		78	23 - 134
2-Nitrophenol	40.0	34.6		ug/L		87	29 - 182
3,3'-Dichlorobenzidine	40.0	33.7		ug/L		84	1 - 262
4,6-Dinitro-2-methylphenol	80.0	77.5		ug/L		97	1 - 181
4-Bromophenyl phenyl ether	40.0	37.7		ug/L		94	53 - 127
4-Chloro-3-methylphenol	40.0	38.3		ug/L		96	22 - 147
4-Chlorophenyl phenyl ether	40.0	37.8		ug/L		94	25 - 158
4-Nitrophenol	80.0	44.5		ug/L		56	1 - 132
Acenaphthene	40.0	34.4		ug/L		86	47 - 145
Acenaphthylene	40.0	35.4		ug/L		89	33 - 145
Anthracene	40.0	38.2		ug/L		96	27 - 133
Benzidine	40.0	ND		ug/L		29	1 - 120
Benzo[a]anthracene	40.0	39.6		ug/L		99	33 - 143
Benzo[a]pyrene	40.0	41.2		ug/L		103	17 - 163
Benzo[b]fluoranthene	40.0	38.7		ug/L		97	24 - 159
Benzo[g,h,i]perylene	40.0	42.2		ug/L		106	1 - 219
Benzo[k]fluoranthene	40.0	41.5		ug/L		104	11 - 162
Bis(2-chloroethoxy)methane	40.0	35.4		ug/L		88	33 - 184
Bis(2-chloroethyl)ether	40.0	33.0		ug/L		83	12 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-740387/2-A
Matrix: Water
Analysis Batch: 740496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 740387

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	38.5		ug/L		96	8 - 158
Butyl benzyl phthalate	40.0	39.7		ug/L		99	1 - 152
Chrysene	40.0	38.7		ug/L		97	17 - 168
Di-n-butyl phthalate	40.0	39.3		ug/L		98	1 - 120
Di-n-octyl phthalate	40.0	38.0		ug/L		95	4 - 146
Dibenz(a,h)anthracene	40.0	43.4		ug/L		108	1 - 227
Diethyl phthalate	40.0	40.1		ug/L		100	1 - 120
Dimethyl phthalate	40.0	40.3		ug/L		101	1 - 120
Fluoranthene	40.0	37.9		ug/L		95	26 - 137
Fluorene	40.0	37.4		ug/L		93	59 - 121
Hexachlorobenzene	40.0	38.6		ug/L		96	1 - 152
Hexachlorocyclopentadiene	40.0	23.5		ug/L		59	5 - 120
Hexachloroethane	40.0	20.9		ug/L		52	40 - 120
Indeno[1,2,3-cd]pyrene	40.0	43.2		ug/L		108	1 - 171
Isophorone	40.0	37.5		ug/L		94	21 - 196
N-Nitrosodi-n-propylamine	40.0	35.9		ug/L		90	1 - 230
N-Nitrosodiphenylamine	40.0	37.4		ug/L		93	54 - 125
Naphthalene	40.0	29.7		ug/L		74	21 - 133
Nitrobenzene	40.0	32.9		ug/L		82	35 - 180
Pentachlorophenol	80.0	68.8		ug/L		86	14 - 176
Phenanthrene	40.0	37.9		ug/L		95	54 - 120
Phenol	40.0	14.9		ug/L		37	5 - 120
Pyrene	40.0	39.5		ug/L		99	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*52 - 151*
2-Fluorobiphenyl	*93*		*44 - 120*
2-Fluorophenol (Surr)	*50*		*17 - 120*
Nitrobenzene-d5 (Surr)	*86*		*15 - 314*
p-Terphenyl-d14 (Surr)	*93*		*22 - 125*
Phenol-d5 (Surr)	*38*		*8 - 424*

Lab Sample ID: 480-227683-5 MS
Matrix: Wastewater
Analysis Batch: 740496

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 740387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	ND		38.1	30.7		ug/L		81	44 - 142
1,2-Dichlorobenzene	ND		38.1	27.4		ug/L		72	32 - 129
1,3-Dichlorobenzene	ND		38.1	25.3		ug/L		66	1 - 172
1,4-Dichlorobenzene	ND		38.1	26.0		ug/L		68	20 - 124
2,2'-Oxybis(1-chloropropane)	ND		38.1	32.7		ug/L		86	36 - 166
2,4,6-Trichlorophenol	ND		38.1	36.2		ug/L		95	37 - 144
2,4-Dichlorophenol	ND		38.1	36.9		ug/L		97	39 - 135
2,4-Dimethylphenol	ND		38.1	36.3		ug/L		95	32 - 120
2,4-Dinitrophenol	ND		76.2	75.1		ug/L		99	1 - 191
2,4-Dinitrotoluene	ND		38.1	36.5		ug/L		96	39 - 139
2,6-Dinitrotoluene	ND		38.1	36.5		ug/L		96	50 - 158

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227683-5 MS
Matrix: Wastewater
Analysis Batch: 740496

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 740387

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	ND		38.1	33.9		ug/L		89	60 - 120
2-Chlorophenol	ND		38.1	29.8		ug/L		78	23 - 134
2-Nitrophenol	ND		38.1	36.6		ug/L		96	29 - 182
3,3'-Dichlorobenzidine	ND		38.1	31.9		ug/L		84	1 - 262
4,6-Dinitro-2-methylphenol	ND		76.2	75.9		ug/L		100	1 - 181
4-Bromophenyl phenyl ether	ND		38.1	39.0		ug/L		102	53 - 127
4-Chloro-3-methylphenol	ND		38.1	34.5		ug/L		91	22 - 147
4-Chlorophenyl phenyl ether	ND		38.1	36.1		ug/L		95	25 - 158
4-Nitrophenol	ND		76.2	38.4		ug/L		50	1 - 132
Acenaphthene	ND		38.1	33.7		ug/L		88	47 - 145
Acenaphthylene	ND		38.1	34.4		ug/L		90	33 - 145
Anthracene	ND		38.1	38.1		ug/L		100	27 - 133
Benzidine	ND	F1	38.1	ND	F1	ug/L		0	1 - 120
Benzo[a]anthracene	ND		38.1	39.2		ug/L		103	33 - 143
Benzo[a]pyrene	ND		38.1	40.1		ug/L		105	17 - 163
Benzo[b]fluoranthene	ND		38.1	38.9		ug/L		102	24 - 159
Benzo[g,h,i]perylene	ND		38.1	40.2		ug/L		106	1 - 219
Benzo[k]fluoranthene	ND		38.1	43.4		ug/L		114	11 - 162
Bis(2-chloroethoxy)methane	ND		38.1	34.7		ug/L		91	33 - 184
Bis(2-chloroethyl)ether	ND		38.1	32.3		ug/L		85	12 - 158
Bis(2-ethylhexyl) phthalate	ND		38.1	39.1		ug/L		103	8 - 158
Butyl benzyl phthalate	ND		38.1	41.1		ug/L		108	1 - 152
Chrysene	ND		38.1	38.5		ug/L		101	17 - 168
Di-n-butyl phthalate	ND		38.1	41.0		ug/L		108	1 - 120
Di-n-octyl phthalate	ND		38.1	37.1		ug/L		97	4 - 146
Dibenz(a,h)anthracene	ND		38.1	41.0		ug/L		108	1 - 227
Diethyl phthalate	ND		38.1	36.9		ug/L		97	1 - 120
Dimethyl phthalate	ND		38.1	36.6		ug/L		96	1 - 120
Fluoranthene	ND		38.1	40.4		ug/L		106	26 - 137
Fluorene	ND		38.1	35.1		ug/L		92	59 - 121
Hexachlorobenzene	ND		38.1	38.6		ug/L		101	1 - 152
Hexachlorocyclopentadiene	ND		38.1	29.9		ug/L		78	5 - 120
Hexachloroethane	ND		38.1	25.0		ug/L		66	40 - 120
Indeno[1,2,3-cd]pyrene	ND		38.1	40.5		ug/L		106	1 - 171
Isophorone	ND		38.1	36.1		ug/L		95	21 - 196
N-Nitrosodi-n-propylamine	ND		38.1	34.0		ug/L		89	1 - 230
N-Nitrosodiphenylamine	ND		38.1	37.1		ug/L		97	54 - 125
Naphthalene	ND		38.1	31.5		ug/L		83	21 - 133
Nitrobenzene	ND		38.1	35.3		ug/L		93	35 - 180
Pentachlorophenol	ND		76.2	73.2		ug/L		96	14 - 176
Phenanthrene	ND		38.1	38.7		ug/L		102	54 - 120
Phenol	ND		38.1	12.4		ug/L		32	5 - 120
Pyrene	ND		38.1	40.3		ug/L		106	52 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*52 - 151*
2-Fluorobiphenyl	*95*		*44 - 120*
2-Fluorophenol (Surr)	*49*		*17 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227683-5 MS
Matrix: Wastewater
Analysis Batch: 740496

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 740387

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*93*		*15 - 314*
p-Terphenyl-d14 (Surr)	*91*		*22 - 125*
Phenol-d5 (Surr)	*35*		*8 - 424*

Lab Sample ID: 480-227683-5 MSD
Matrix: Wastewater
Analysis Batch: 740496

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 740387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		38.1	30.9		ug/L		81	44 - 142	0	50
1,2-Dichlorobenzene	ND		38.1	27.4		ug/L		72	32 - 129	0	38
1,3-Dichlorobenzene	ND		38.1	25.7		ug/L		67	1 - 172	1	37
1,4-Dichlorobenzene	ND		38.1	26.6		ug/L		70	20 - 124	2	40
2,2'-Oxybis(1-chloropropane)	ND		38.1	32.7		ug/L		86	36 - 166	0	76
2,4,6-Trichlorophenol	ND		38.1	38.6		ug/L		101	37 - 144	7	58
2,4-Dichlorophenol	ND		38.1	36.3		ug/L		95	39 - 135	1	50
2,4-Dimethylphenol	ND		38.1	35.9		ug/L		94	32 - 120	1	58
2,4-Dinitrophenol	ND		76.2	72.9		ug/L		96	1 - 191	3	132
2,4-Dinitrotoluene	ND		38.1	35.8		ug/L		94	39 - 139	2	42
2,6-Dinitrotoluene	ND		38.1	36.7		ug/L		96	50 - 158	1	48
2-Chloronaphthalene	ND		38.1	35.8		ug/L		94	60 - 120	5	24
2-Chlorophenol	ND		38.1	30.2		ug/L		79	23 - 134	1	61
2-Nitrophenol	ND		38.1	36.3		ug/L		95	29 - 182	1	55
3,3'-Dichlorobenzidine	ND		38.1	33.6		ug/L		88	1 - 262	5	108
4,6-Dinitro-2-methylphenol	ND		76.2	80.6		ug/L		106	1 - 181	6	203
4-Bromophenyl phenyl ether	ND		38.1	40.6		ug/L		107	53 - 127	4	43
4-Chloro-3-methylphenol	ND		38.1	34.4		ug/L		90	22 - 147	0	73
4-Chlorophenyl phenyl ether	ND		38.1	36.7		ug/L		96	25 - 158	2	61
4-Nitrophenol	ND		76.2	38.0		ug/L		50	1 - 132	1	131
Acenaphthene	ND		38.1	35.3		ug/L		93	47 - 145	5	48
Acenaphthylene	ND		38.1	35.8		ug/L		94	33 - 145	4	74
Anthracene	ND		38.1	38.8		ug/L		102	27 - 133	2	66
Benzidine	ND	F1	38.1	ND	F1	ug/L		0	1 - 120	NC	50
Benzo[a]anthracene	ND		38.1	40.7		ug/L		107	33 - 143	4	53
Benzo[a]pyrene	ND		38.1	38.7		ug/L		102	17 - 163	4	72
Benzo[b]fluoranthene	ND		38.1	39.0		ug/L		102	24 - 159	0	71
Benzo[g,h,i]perylene	ND		38.1	42.0		ug/L		110	1 - 219	4	97
Benzo[k]fluoranthene	ND		38.1	40.0		ug/L		105	11 - 162	8	63
Bis(2-chloroethoxy)methane	ND		38.1	36.1		ug/L		95	33 - 184	4	54
Bis(2-chloroethyl)ether	ND		38.1	33.8		ug/L		89	12 - 158	5	108
Bis(2-ethylhexyl) phthalate	ND		38.1	38.1		ug/L		100	8 - 158	3	82
Butyl benzyl phthalate	ND		38.1	38.2		ug/L		100	1 - 152	7	60
Chrysene	ND		38.1	38.4		ug/L		101	17 - 168	0	87
Di-n-butyl phthalate	ND		38.1	38.7		ug/L		102	1 - 120	6	47
Di-n-octyl phthalate	ND		38.1	37.6		ug/L		99	4 - 146	1	69
Dibenz(a,h)anthracene	ND		38.1	41.6		ug/L		109	1 - 227	2	126
Diethyl phthalate	ND		38.1	37.2		ug/L		98	1 - 120	1	100
Dimethyl phthalate	ND		38.1	37.5		ug/L		98	1 - 120	2	183

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-227683-5 MSD
Matrix: Wastewater
Analysis Batch: 740496

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 740387

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene	ND		38.1	36.9		ug/L		97	26 - 137	9	66
Fluorene	ND		38.1	35.6		ug/L		94	59 - 121	2	38
Hexachlorobenzene	ND		38.1	41.6		ug/L		109	1 - 152	8	55
Hexachlorocyclopentadiene	ND		38.1	33.2		ug/L		87	5 - 120	11	50
Hexachloroethane	ND		38.1	25.3		ug/L		66	40 - 120	1	52
Indeno[1,2,3-cd]pyrene	ND		38.1	42.3		ug/L		111	1 - 171	4	99
Isophorone	ND		38.1	37.7		ug/L		99	21 - 196	4	93
N-Nitrosodi-n-propylamine	ND		38.1	33.7		ug/L		89	1 - 230	1	87
N-Nitrosodiphenylamine	ND		38.1	40.1		ug/L		105	54 - 125	8	15
Naphthalene	ND		38.1	31.3		ug/L		82	21 - 133	1	65
Nitrobenzene	ND		38.1	36.4		ug/L		96	35 - 180	3	62
Pentachlorophenol	ND		76.2	69.2		ug/L		91	14 - 176	6	86
Phenanthrene	ND		38.1	38.6		ug/L		101	54 - 120	0	39
Phenol	ND		38.1	13.2		ug/L		35	5 - 120	6	64
Pyrene	ND		38.1	38.8		ug/L		102	52 - 120	4	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*52 - 151*
2-Fluorobiphenyl	*104*		*44 - 120*
2-Fluorophenol (Surr)	*55*		*17 - 120*
Nitrobenzene-d5 (Surr)	*97*		*15 - 314*
p-Terphenyl-d14 (Surr)	*87*		*22 - 125*
Phenol-d5 (Surr)	*36*		*8 - 424*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-740259/1-A
Matrix: Water
Analysis Batch: 740402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.010	0.0068	mg/L		03/07/25 08:23	03/07/25 17:06	1

Lab Sample ID: LCS 480-740259/2-A
Matrix: Water
Analysis Batch: 740402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 740259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.518		mg/L		104	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-740617/1-A
Matrix: Water
Analysis Batch: 740731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 740617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000042	mg/L		03/12/25 11:59	03/13/25 11:07	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-740617/2-A
Matrix: Water
Analysis Batch: 740731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 740617

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00669	0.00650		mg/L		97	85 - 115		

Lab Sample ID: 480-227683-5 MS
Matrix: Wastewater
Analysis Batch: 740731

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 740617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00669	0.00635		mg/L		95	70 - 130		

Lab Sample ID: 480-227683-5 MSD
Matrix: Wastewater
Analysis Batch: 740731

Client Sample ID: 001 LAB COMP
Prep Type: Total/NA
Prep Batch: 740617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00669	0.00640		mg/L		96	70 - 130	1	20

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-740685/21
Matrix: Water
Analysis Batch: 740685

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.00520	J	0.010	0.0041	mg/L			03/12/25 17:26	1

Lab Sample ID: HLCS 480-740685/22
Matrix: Water
Analysis Batch: 740685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.400	0.390		mg/L		98	90 - 110		

Lab Sample ID: LCS 480-740685/23
Matrix: Water
Analysis Batch: 740685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.250	0.243		mg/L		97	90 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-740439/1
Matrix: Water
Analysis Batch: 740439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

GC/MS VOA

Analysis Batch: 740121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	624.1	
480-227683-6	TRIP BLANK	Total/NA	WQ	624.1	
MB 480-740121/8	Method Blank	Total/NA	Water	624.1	
LCS 480-740121/6	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 740387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	625	
MB 480-740387/1-A	Method Blank	Total/NA	Water	625	
LCS 480-740387/2-A	Lab Control Sample	Total/NA	Water	625	
480-227683-5 MS	001 LAB COMP	Total/NA	Wastewater	625	
480-227683-5 MSD	001 LAB COMP	Total/NA	Wastewater	625	

Analysis Batch: 740496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	625.1	740387
MB 480-740387/1-A	Method Blank	Total/NA	Water	625.1	740387
LCS 480-740387/2-A	Lab Control Sample	Total/NA	Water	625.1	740387
480-227683-5 MS	001 LAB COMP	Total/NA	Wastewater	625.1	740387
480-227683-5 MSD	001 LAB COMP	Total/NA	Wastewater	625.1	740387

Metals

Prep Batch: 740259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	200.7	
MB 480-740259/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-740259/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 740402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-740259/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	740259
LCS 480-740259/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	740259

Analysis Batch: 740425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	200.7 Rev 4.4	740259

Prep Batch: 740617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	245.1	
MB 480-740617/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-740617/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-227683-5 MS	001 LAB COMP	Total/NA	Wastewater	245.1	
480-227683-5 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	

Analysis Batch: 740731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	245.1	740617
MB 480-740617/1-A	Method Blank	Total/NA	Water	245.1	740617

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Metals (Continued)

Analysis Batch: 740731 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-740617/2-A	Lab Control Sample	Total/NA	Water	245.1	740617
480-227683-5 MS	001 LAB COMP	Total/NA	Wastewater	245.1	740617
480-227683-5 MSD	001 LAB COMP	Total/NA	Wastewater	245.1	740617

General Chemistry

Analysis Batch: 740439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	SM 4500 H+ B	
LCS 480-740439/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 740685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-227683-5	001 LAB COMP	Total/NA	Wastewater	335.4	
MB 480-740685/21	Method Blank	Total/NA	Water	335.4	
HLCS 480-740685/22	Lab Control Sample	Total/NA	Water	335.4	
LCS 480-740685/23	Lab Control Sample	Total/NA	Water	335.4	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Client Sample ID: 001 LAB COMP

Lab Sample ID: 480-227683-5

Date Collected: 03/05/25 00:00

Matrix: Wastewater

Date Received: 03/05/25 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	740121	AXK	EET BUF	03/05/25 21:47
Total/NA	Prep	625			740387	JMP	EET BUF	03/10/25 09:58
Total/NA	Analysis	625.1		1	740496	AF	EET BUF	03/11/25 12:55
Total/NA	Prep	200.7			740259	ET	EET BUF	03/07/25 08:23
Total/NA	Analysis	200.7 Rev 4.4		1	740425	BMB	EET BUF	03/10/25 13:45
Total/NA	Prep	245.1			740617	EMO	EET BUF	03/12/25 11:59
Total/NA	Analysis	245.1		1	740731	BMB	EET BUF	03/13/25 11:09
Total/NA	Analysis	335.4		1	740685	GW	EET BUF	03/12/25 17:46
Total/NA	Analysis	SM 4500 H+ B		1	740439	AB	EET BUF	03/10/25 14:25

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-227683-6

Date Collected: 03/05/25 00:00

Matrix: WQ

Date Received: 03/05/25 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	740121	AXK	EET BUF	03/05/25 22:11

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Wastewater	1,2-Dichloroethene, Total
624.1		Wastewater	Ethyl methacrylate
624.1		WQ	1,2-Dichloroethene, Total
624.1		WQ	Ethyl methacrylate
625.1	625	Wastewater	1,2-Dichlorobenzene
625.1	625	Wastewater	1,3-Dichlorobenzene
625.1	625	Wastewater	1,4-Dichlorobenzene
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET BUF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET BUF
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
245.1	Mercury (CVAA)	EPA	EET BUF
335.4	Cyanide, Total	EPA	EET BUF
SM 4500 H+ B	pH	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF
245.1	Preparation, Mercury	EPA	EET BUF
625	Liquid-Liquid Extraction	EPA	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Monthly Testing

Job ID: 480-227683-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-227683-5	001 LAB COMP	Wastewater	03/05/25 00:00	03/05/25 13:35
480-227683-6	TRIP BLANK	WQ	03/05/25 00:00	03/05/25 13:35

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Phone (716) 691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information

Client Contact: Jason Gutkowski	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-193797-34075.1
Company: Arcadis US Inc.	Phone: 315 436 3605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Address: One Lincoln Center 110 West Fayette St, Suite 300	PWSID:			Job #:
City: Syracuse	Due Date Requested:			
State, Zip: NY, 13202	TAT Requested (days): Standard Turn			
Phone:	Compliance Project: Δ Yes Δ No			
Email: jason.gutkowski@arcadis.com	PO #: 30240051			
Project Name: Iroquois Gas/Westwood Pharm. Monthly	WO #: 30003542-00001			
Site: New York	Project #: 48011056			
	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
D - HNO3
B - NaOH

480-227683 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1_PREC - Priority Pollutant List SVOCs	624.1_PREC - Priority Pollutant List VOCs	200.7, 245.1	SM4500_H+ - pH	335.4_NP - Cyanide	Total Numb	Special Instructions/Note:
			Preservation Code:				N	N	D	N	B		
001-1	3/5/25	0715	G	Water			X	X	X	X	X		Lab To Composite Samples
001-2		0915		Water			X	X	X	X	X		
001-3		1115					X	X	X	X	X		
001-4		1315					X	X	X	X	X		
Trip Blank		—						X					Short Hold Time

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/5/25 / 1335	Company: Arcadis	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/5/25 1335	Company TMD

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 5.2 ICE IR#5

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-227683-1

Login Number: 227683
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Appendix B

Groundwater Monitoring

Tables

Table 1
Groundwater Elevation Data

Iroquois Gas/Westwood Pharmaceutical Terrestrial Site
120 Dart Street and 40 Bradley Street, Buffalo, New York

Groundwater Elevation Data					
Well ID	Reference Elevation (ft. amsl)	June 5, 2024		October 9, 2024	
		DTW	GWE	DTW	GWE
B19	592.14	10.41	581.73	10.25	581.89
B6R	590.86	17.12	573.74	17.21	573.65
B7R	591.59	17.75	573.84	18.00	573.59
B8R	592.16	17.45	574.71	18.06	574.10
MWF1	592.28	8.18	584.10	9.77	582.51
MWF2	594.66	8.90	585.76	9.55	585.11
MWF3	591.66	5.29	586.37	6.18	585.48
MWF4	594.00	13.72	580.28	15.10	578.90
MWF5	589.90	12.12	577.78	13.57	576.33
MWS2	591.89	10.83	581.06	11.07	580.82
MWS4	593.05	11.73	581.32	12.03	581.02
P1	590.77	14.59	576.18	14.84	575.93
P2	591.30	17.03	574.27	17.01	574.29
P6R	590.85	16.98	573.87	17.61	573.24
P7R	591.36	17.43	573.93	17.65	573.71
P8R	591.28	17.38	573.90	17.58	573.70
PF3	591.48	14.63	576.85	14.45	577.03
PF4	591.48	14.61	576.87	19.67	571.81
PF6	592.86	6.97	585.89	5.71	587.15
PS1	592.89	10.65	582.24	10.92	581.97
PS2	593.40	12.55	580.85	12.79	580.61
TP1	591.27	17.40	573.87	17.56	573.71
TP2	589.87	15.45	574.42	15.91	573.96
Pumping Sump in Trench	589.26	19.03	570.23	18.97	570.29

Notes:
DTW - depth to water in feet, below top of casing
GWE - groundwater elevation, ft. amsl
NM - Not Measured
ft. amsl - feet above mean sea level

Table 2
Groundwater Analytical Data for Volatile Organic Compounds

Iroquois Gas/Westwood Pharmaceutical Terrestrial Site
120 Dart Street and 40 Bradley Street, Buffalo, New York

Well ID	Date	Depth to Water (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m-, p- Xylene (µg/L)	o-Xylene (µg/L)
NYSDEC TOGS 1.1.1 Standards			**1**	**5**	**5**	**5**	**5**
B3	12/13/2011	9.75	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	ND < 0.20
	6/28/2012	8.46	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	ND < 0.20
	12/11/2012	10.01	0.099	2.1	0.7	2.7	1
	8/24/2015	NM	NS	NS	NS	NS	NS
	4/27/2016	7.78	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/21/2016	8.85	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/29/2017	6.49	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2017	7.50	ND < 0.090	ND < 0.25	ND < 0.30	ND < 0.28	ND < 0.32
	10/23/2018	6.46	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/18/2018	6.67	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	6/12/2019	6.60	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	11/18/2019	6.55	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/2/2020	6.49	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
	12/9/2020	6.85	ND < 1.6	ND < 2.0	ND < 3.0	ND <2.6	ND < 3.0
B6	12/13/2011	18.21	0.11	0.067	ND < 0.20	ND	ND < 0.20
	6/28/2012	18.59	0.22	ND < 0.20	ND < 0.20	ND	ND < 0.20
	12/11/2012	18.00	0.043	0.22	0.064	0.29	0.068
	8/24/2015	18.51	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	4/27/2016	18.70	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2016	18.58	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	25.81	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/19/2017	23.27	0.26 J	ND < 0.25	2.2	0.38 J	0.83 J
B6R	10/24/2018	16.94	**1**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/17/2018	17.31	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	6/12/2019	16.34	ND < 0.41	ND < 0.51	2	ND < 0.66	ND < 0.76
	11/18/2019	16.97	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/3/2020	17.20	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/10/2020	16.68	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/2/2021	17.55	0.41 J	ND < 1.0	1.1	ND < 2.0	ND < 1.0
	11/10/2021	17.21	ND < 0.41 F1	ND < 0.51 F1	ND < 0.74 F1	ND < 0.66 F1	ND < 0.76
	11/9/2022	16.93	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0
	12/8/2022	16.88	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0
	5/16/2023	25.55	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0
	9/14/2023	18.62	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0
	6/5/2024	17.12	ND < 1.0	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0
	10/9/2024	17.21	0.81	ND < 1.0	1.6	ND < 2.0	ND < 1.0
B7	12/13/2011	19.52	0.12	ND < 0.20	ND < 0.20	ND	ND < 0.20
	6/28/2012	20.42	**4.7**	0.068	0.079	ND	0.11
	12/11/2012	19.16	**3.9**	0.42	0.13	0.36	0.17
	8/25/2015	19.79	**9.8**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	4/27/2016	19.90	**6.4**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/21/2016	18.42	**12**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	26.47	**5.1**	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2017	17.96	**56**	1.7	**38**	3.7	**12**

See Notes on Page 5.

Table 2
Groundwater Analytical Data for Volatile Organic Compounds

Iroquois Gas/Westwood Pharmaceutical Terrestrial Site
120 Dart Street and 40 Bradley Street, Buffalo, New York

Well ID	Date	Depth to Water (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m-, p- Xylene (µg/L)	o-Xylene (µg/L)
NYSDEC TOGS 1.1.1 Standards			**1**	**5**	**5**	**5**	**5**
B7R	10/24/2018	18.01	**42**	ND < 1.0	**6.4**	ND < 1.3	1.5 J
	12/17/2018	18.31	**38**	ND < 1.0	**12**	ND < 1.3	2.9
	6/12/2019	16.99	**18**	ND < 0.51	**22**	1.1 J	**6.3**
	11/18/2019	17.79	**19**	0.51 J	**18**	1.2 J	**5.4**
	9/3/2020	18.05	**25**	ND < 0.51	**5.2**	ND < 0.66	2.2
	12/10/2020	17.57	**17**	ND < 0.51	2	ND < 0.66	1.6
	9/2/2021	18.24	**32**	ND < 2.0	ND < 2.0	ND < 4.0	ND < 2.0
	11/11/2021	18.04	**22**	ND < 1.0	1.5 J	ND < 1.3	ND < 1.5
	11/9/2022	17.90	**29**	ND < 2.0	ND < 2.0	ND < 4.0	ND < 4.0
	12/8/2022	17.40	**32**	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0
	5/16/2023	25.03	**36**	ND < 1.0	ND <1.0	ND <2.0 F1	0.80 J
	9/14/2023	17.90	**27**	0.68 J	3.5	0.72 J	2.0
	6/5/2024	17.75	**18**	ND < 1.0	**5.4**	ND < 2.0	2.3
	10/9/2024	18.00	**110**	ND < 2.0	ND < 2.0	ND < 4.0	ND < 2.0
B8	12/13/2011	18.11	**100**	1	**50**	**9.3**	**17**
	6/28/2012	18.72	**150**	1.4	**77**	**6.2**	**27**
	12/11/2012	18.03	**51**	1.3	**23**	**5.4**	**13**
	8/25/2015	18.41	**220**	1.7	**60**	**11**	**36**
	4/27/2016	NM	**100**	ND < 2.0	**54**	**6.3 J**	**21**
	12/20/2016	18.46	**450**	ND < 5.1	**45**	ND < 6.6	**32**
	3/29/2017	25.67	**7.5**	ND < 0.51	**20**	3.1	**7.5**
	12/20/2017	18.48	**530**	**250**	**830**	**300**	**210**
B8R	10/23/2018	18.26	**620**	**140**	**530**	**160**	**170**
	12/17/2018	18.25	**500**	**75**	**470**	**110**	**130**
	6/12/2019	17.15	**550**	**130**	**580**	**170**	**170**
	11/18/2019	14.84	NS**	NS**	NS**	NS**	NS**
	9/2/2020	18.19	**380**	**37**	**530**	**110**	**130**
	12/9/2020	17.60	**300**	**26**	**450**	**110**	**130**
	9/2/2021	18.45	**580**	**64**	**950**	**270**	**240**
	11/11/2021	18.20	**170**	**20**	**410**	**87**	**94**
	11/9/2022	18.11	**480**	ND < 20	**240**	**29 J**	**62**
	12/8/2022	17.51	**460**	**16 J**	**320**	**45**	**86**
	5/16/2023	17.49	**45**	ND < 20	**140**	**20 J**	**29**
	9/14/2023	18.12	**430**	ND < 20	**250**	**44**	**53**
	6/5/2024	17.45	**200 F1**	**13**	**210**	**23**	**49**
	10/9/2024	18.06	**680**	**39**	**470**	**110**	**110**
MWF2	12/13/2011	9.74	**81**	**7.3**	**420**	**420**	**290**
	6/28/2012	9.45	**36**	4.5	**730**	**570**	**380**
	12/11/2012	8.90	**390**	**19**	**800**	**730**	**470**
	8/25/2015	8.97	**44**	**5.4 J**	**660**	**610**	**420**
	4/27/2016	9.22	**100**	**6.1**	**500**	**430**	**310**
	12/20/2016	9.39	**100**	ND < 20	**3000**	**2200**	**1200**
	3/29/2017	9.29	**37 J**	ND < 20	**420**	**380**	**310**
	12/19/2017	8.88	**14**	3.5 J	**320**	**200**	**190**
	10/24/2018	9.03	**23**	ND < 5.1	**190**	**230**	**180**
	12/18/2018	8.80	**16**	ND < 5.1	**140**	**220**	**190**

See Notes on Page 5.

Table 2
Groundwater Analytical Data for Volatile Organic Compounds

Iroquois Gas/Westwood Pharmaceutical Terrestrial Site
120 Dart Street and 40 Bradley Street, Buffalo, New York

Well ID	Date	Depth to Water (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m-, p- Xylene (µg/L)	o-Xylene (µg/L)
NYSDEC TOGS 1.1.1 Standards			**1**	**5**	**5**	**5**	**5**
MWF2 (cont.)	6/12/2019	9.68	**26**	ND < 5.1	**570**	**230**	**310**
	11/18/2019	8.78	NS**	NS**	NS**	NS**	NS**
	9/3/2020	9.12	NS**	NS**	NS**	NS**	NS**
	12/10/2020	8.86	**11**	ND < 5.1	**260**	**200**	**240**
	9/2/2021	9.15	**25**	ND < 10	**490**	**310**	**280**
	11/11/2021	8.46	**44**	ND < 13	**1100**	**690**	**550**
	11/9/2022	9.26	**10 J**	ND < 25	**230**	**220**	**220**
	12/8/2022	9.61	ND < 10	ND < 10	**250**	**200**	**190**
	5/16/2023	9.11	**51**	**5.8 J**	**620**	**570**	**390**
	9/14/2023	10.13	**50**	**5.4 J**	**890**	**510**	**410**
	6/5/2024	8.90	**11**	ND < 10	**410**	**260**	**260**
	10/9/2024	9.55	**24**	ND < 10	**620**	**370**	**380**
MWF3	12/13/2011	4.92	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	ND < 0.20
	6/28/2012	6.00	0.37	ND < 0.20	ND < 0.20	0.13	1.1
	12/11/2012	4.80	0.26	0.35	1.6	2	1.5
	8/24/2015	NM	NS	NS	NS	NS	NS
	4/27/2016	5.16	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2016	5.01	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	12.19	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/19/2017	5.54	ND < 0.090	ND < 0.25	ND < 0.30	0.28 J	0.76 J
	10/24/2018	5.51	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	12/18/2018	4.55	ND < 0.82	ND < 1.0	ND < 1.5	ND < 1.3	ND < 1.5
	6/12/2019	4.32	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	11/18/2019	4.90	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	9/2/2020	5.43	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
	12/9/2020	4.62	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
	9/2/2021	5.00	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
	11/11/2021	4.97	ND < 1.6	ND < 2.0	ND < 3.0	ND < 2.6	ND < 3.0
	11/9/2022	4.80	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
	12/8/2022	4.01	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
	5/16/2023	3.77	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
	9/14/2023	5.09	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
	6/5/2024	5.29	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
	10/9/2024	6.18	ND < 4.0	ND < 4.0	ND < 4.0	ND < 8.0	ND < 4.0
MWF4	12/13/2011	16.47	**64**	2.1	**84**	**16**	**54**
	6/28/2012	15.96	**90**	2.9	**120**	**19**	**73**
	12/11/2012	15.45	**100**	4.2	**200**	**38**	**99**
	8/25/2015	15.51	**76**	ND < 2.6	**72**	**11**	**56**
	4/27/2016	15.88	**53**	ND < 2.6	**51**	**11**	**49**
	12/20/2016	15.77	**69**	2.1	**82**	**13**	**59**
	3/29/2017	16.01	**75**	2.4	**91**	**13**	**63**
	12/19/2017	16.14	**83**	3.1	**110**	**14**	**75**
	10/23/2018	14.87	**67**	2.7 J	**120**	**13**	**61**
	12/17/2018	15.52	**81**	3.9 J	**160 F1**	**24**	**89**
	6/12/2019	15.50	**92**	4.7	**240**	**34**	**120**
	11/18/2019	14.92	**53**	2.4 J	**100**	**18**	**70**

See Notes on Page 5.

Table 2
Groundwater Analytical Data for Volatile Organic Compounds

Iroquois Gas/Westwood Pharmaceutical Terrestrial Site
120 Dart Street and 40 Bradley Street, Buffalo, New York

Well ID	Date	Depth to Water (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m-, p- Xylene (µg/L)	o-Xylene (µg/L)
NYSDEC TOGS 1.1.1 Standards			**1**	**5**	**5**	**5**	**5**
MWF4 (cont.)	9/3/2020	15.50	NS**	NS**	NS**	NS**	NS**
	12/10/2020	15.23	**64**	2.3 J	**95**	**13**	**69**
	9/2/2021	15.30	**49**	ND < 4.0	**48**	**8.6**	**44**
	11/11/2021	15.24	**43**	ND < 2.0	**54**	**9.5**	**48**
	11/9/2022	15.40	**50**	ND < 4.0	**56**	**8.7**	**43**
	12/8/2022	14.03	**64**	3.4 J	**170**	**22**	**86**
	5/16/2023	13.89	**120**	**7.0**	**370**	**35**	**140**
	9/14/2023	15.07	**54**	2.4 J	**100**	**12**	**57**
	6/5/2024	13.72	**77**	3.8 J	**170**	**16**	**75**
	10/23/2024	15.1	**42**	**6.5**	**950**	**790**	**530**
MWS2	8/24/2015	NM	NS	NS	NS	NS	NS
	4/27/2016	NM	NS	NS	NS	NS	NS
	12/21/2016	18.95	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/28/2017	17.99	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/19/2017	11.98	ND < 0.090	ND < 0.25	ND < 0.30	ND < 0.28	ND < 0.32
	10/24/2018	11.24	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/18/2018	10.79	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
PS1	12/13/2011	11.02	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	NM
	6/28/2012	11.57	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.40	NM
	12/11/2012	11.37	0.078	0.1	0.075	ND < 0.40	NM
	8/25/2015	10.03	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	NM
	4/27/2016	11.19	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/22/2016	12.72	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	3/29/2017	11.52	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/20/2017	12.89	ND < 0.090	ND < 0.25	ND < 0.30	ND < 0.28	ND < 0.32
	10/23/2018	11.54	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
	12/18/2018	10.48	ND < 0.41	ND < 0.51	ND < 0.74	ND < 0.66	ND < 0.76
P5*	8/25/2015	18.15	**84**	2.7 J	**300**	**10**	NM
	4/27/2016	18.59	**14**	ND < 2.6	**150**	**8.9 J**	**36**
	12/21/2016	18.50	**120**	ND < 10	**950**	**45**	**250**
	3/29/2017	18.82	**5.4**	ND < 1.0	**74**	**5**	**20**
	12/20/2017	NM*	NS*	NS*	NS*	NS*	NS*
P8R	6/12/2019	17.13	**130**	**5.5**	**240**	**22**	**54**
	11/18/2019	17.25	**200**	**5.8**	**380**	**21**	**69**
	9/3/2020	17.86	**160**	**6.7**	**260**	**31**	**64**
	12/10/2020	17.54	**150**	4.2 J	**270**	**16**	**76**
	9/2/2021	18.04	**180**	**9.6 F1**	**130 F1**	**31**	**40**
	11/11/2021	17.75	**210**	**14**	**230**	**47**	**80**
	11/9/2022	17.90	**260**	**5.9 J**	**510**	**38**	**130**
	12/8/2022	17.05	**210**	**11**	**200**	**44**	**64**
	5/16/2023	17.06	**170**	**4.1 J**	**190**	**16**	**52**
	9/14/2023	17.39	**86**	ND < 5.0	**130**	**8.8 J**	**43**
	6/5/2024	17.38	**310**	**25**	**330**	**100**	**97**
	10/9/2024	17.58	**340**	**22**	**320**	**88**	**120**

See Notes on Page 5.

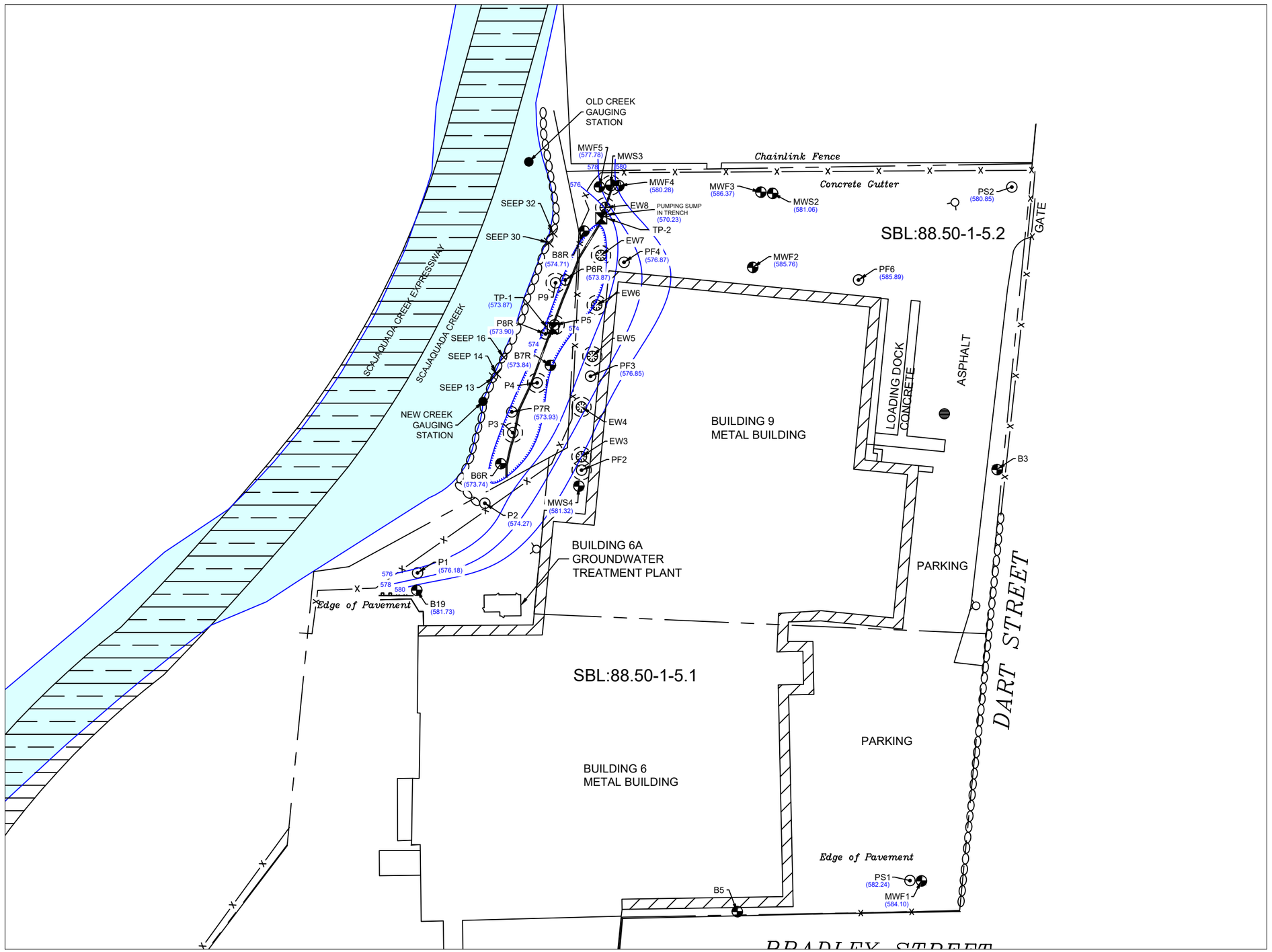
Table 2
Groundwater Analytical Data for Volatile Organic Compounds

Iroquois Gas/Westwood Pharmaceutical Terrestrial Site
120 Dart Street and 40 Bradley Street, Buffalo, New York

Notes:

Bolded analytical data represents results above NYSDEC TOGS 1.1.1 Standards.
* Well abandoned
**Well not sampled due to non-aqueous phase liquid observed during gauging.
µg/L = micrograms per liter
F1 = MS and/or MSD Recovery is outside acceptable limits.
ft = feet
J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.
ND = non detect (value shown is the method detection limit)
NM = not measured
NS = not sampled
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Services

Figures



0 100 200

GRAPHIC SCALE

LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- 580 —— 580 GROUNDWATER CONTOUR
- (584.10) GROUNDWATER ELEVATION (FT)
- (NM) NOT MEASURED

NOTE:
1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

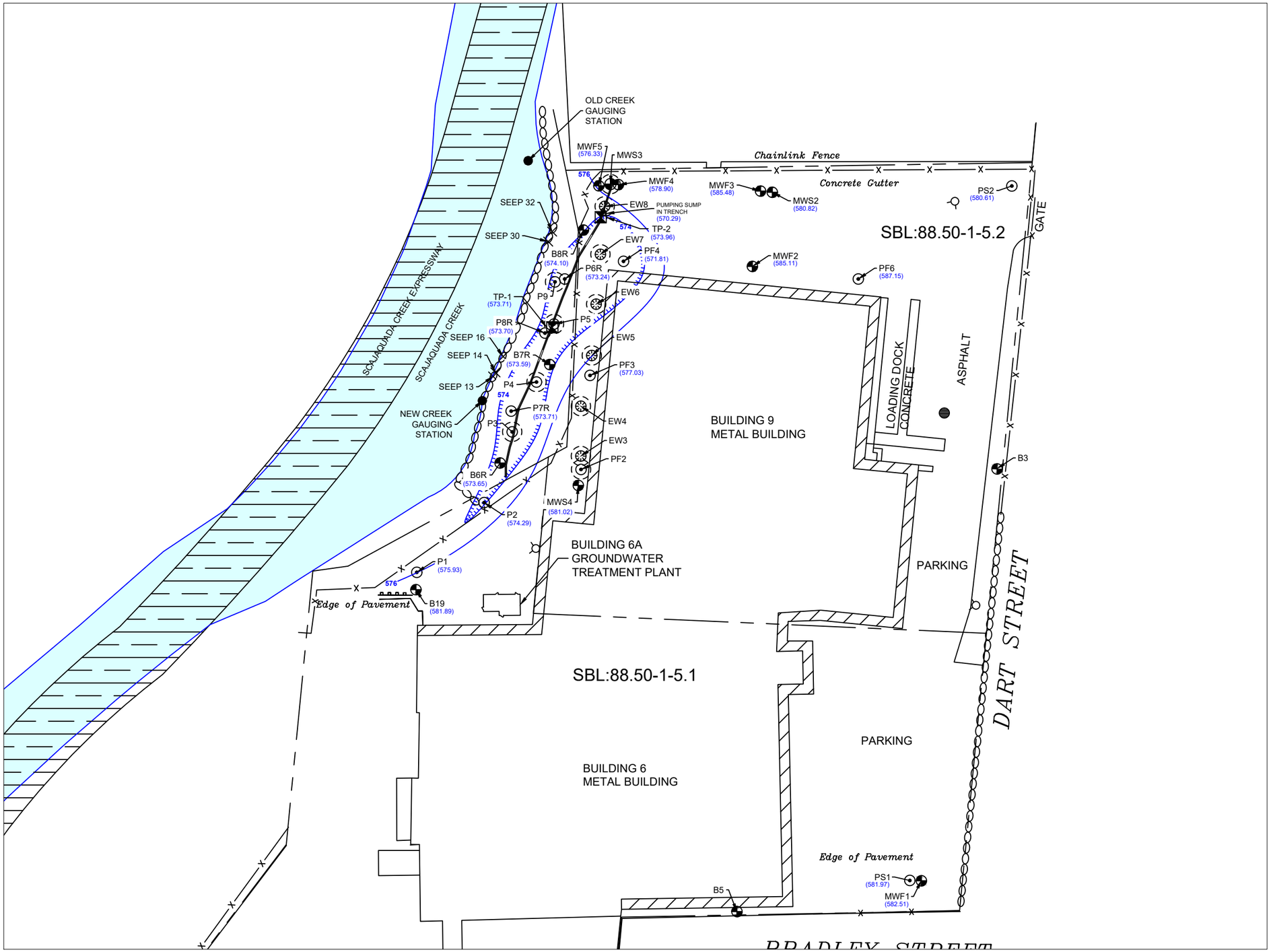
IROQUOIS GAS/WESTWOOD PHARMACEUTICAL
TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK 14213

GROUNDWATER ELEVATION CONTOUR MAP JUNE 5, 2024

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: DIV/GROUP: DB: PMTM: LYR:(Opt)ON=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\GW FIGURES.dwg LAYOUT:1 SAVED: 3/31/2025 3:53 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 4/16/2025 10:05 AM BY: ZOANETTI, ANDREW



0 100 200

GRAPHIC SCALE

LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- 580 ——— 580 GROUNDWATER CONTOUR
- (584.10) GROUNDWATER ELEVATION (FT)
- (NM) NOT MEASURED

NOTE:
1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

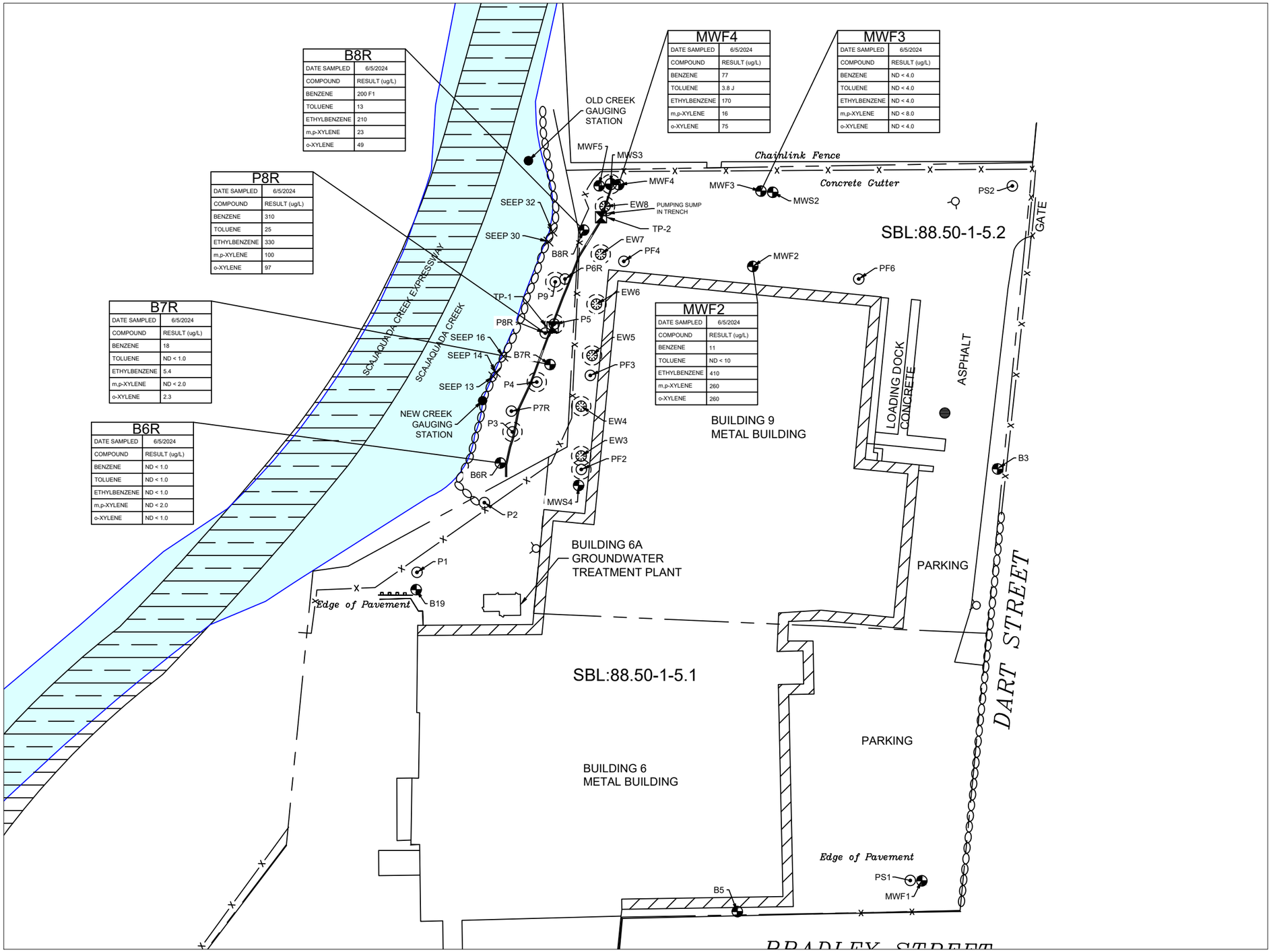
IROQUOIS GAS/WESTWOOD PHARMACEUTICAL
TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK 14213

GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 9, 2024

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY: DIV/GROUP: DB: PMTM: LYR:(OptION=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\GW FIGURES.dwg LAYOUT: 2 SAVED: 3/31/2025 3:53 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 4/16/2025 10:06 AM BY: ZOANETTI, ANDREW



0 100 200

GRAPHIC SCALE

LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP

ug/L	MICROGRAM PER LITER
ND	NOT DETECTED
J	ESTIMATED CONCENTRATION
F1	MATRIX SPIKE AND/OR MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE ACCEPTABLE LIMITS

NOTE:
1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.

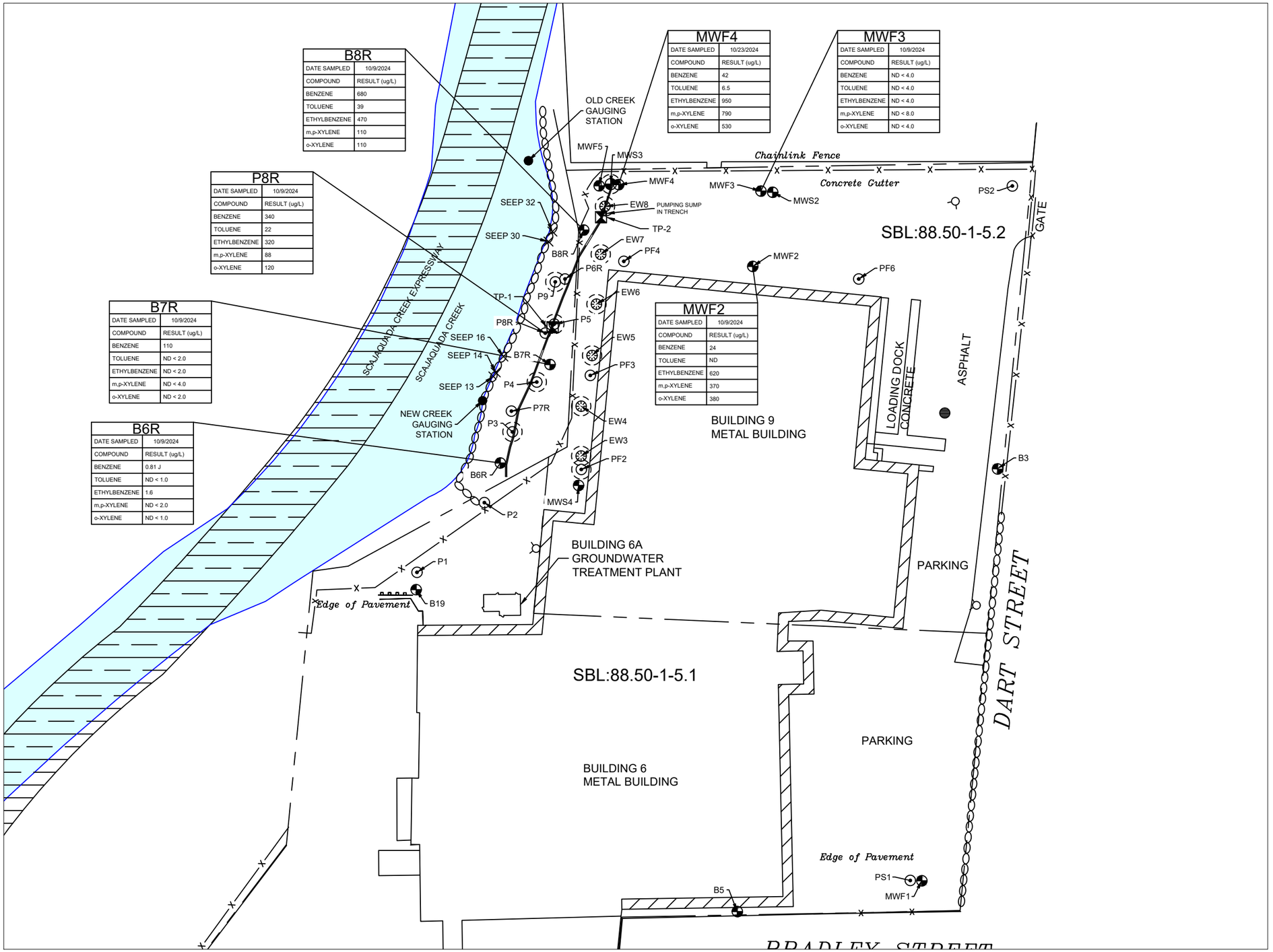
IROQUOIS GAS/WESTWOOD PHARMACEUTICAL
TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK 14213

VOLATILE ORGANIC COMPOUND CONCENTRATIONS JUNE 5, 2024

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY: DIV/GROUP: DB: PMTM: LYR:(OptION="OFF="REF"
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\GW FIGURES.dwg LAYOUT: 3 SAVED: 3/31/2025 3:53 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 4/16/2025 10:07 AM BY: ZOANETTI, ANDREW



0 100 200

GRAPHIC SCALE

LEGEND :

- INTERCEPTOR TRENCH
- PROPERTY BOUNDARY
- FENCE
- SHEET PILE RETAINING WALL
- MONITORING WELL
- ABANDONED MONITORING WELL
- STREAM GAUGE
- SEEP LOCATION
- PIEZOMETER
- ABANDONED PIEZOMETER
- GROUNDWATER EXTRACTION WELL
- ABANDONED GROUNDWATER EXTRACTION WELL
- TRENCH PIEZOMETER
- RECOVERY SUMP
- ug/L — MICROGRAM PER LITER
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- F1 — MATRIX SPIKE AND/OR MATRIX SPIKE DUPLICATE RECOVERY IS OUTSIDE ACCEPTABLE LIMITS

NOTES:
1. BASE MAP FROM A GROUNDWATER & ENVIRONMENTAL SERVICES, INC. FIGURE TITLED "PROPOSED GROUNDWATER COLLECTION TRENCH LOCATION MAP" DATED 4/13/2013.
2. MWF4 WAS SAMPLED ON OCTOBER 23, 2024.

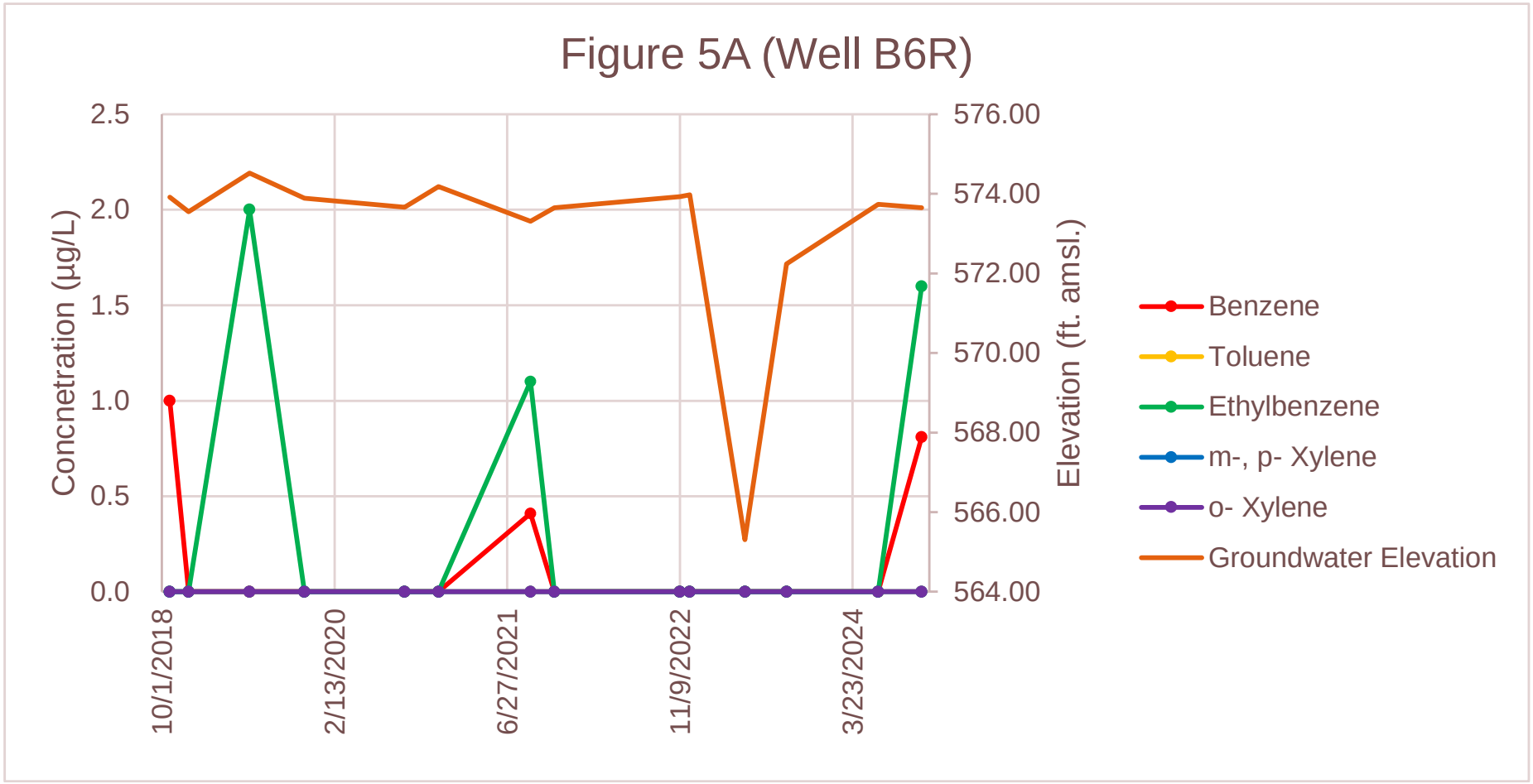
IROQUOIS GAS/WESTWOOD PHARMACEUTICAL
TERRESTRIAL SITE
120 DART ST. AND 40 BRADLEY ST.
BUFFALO, NEW YORK 14213

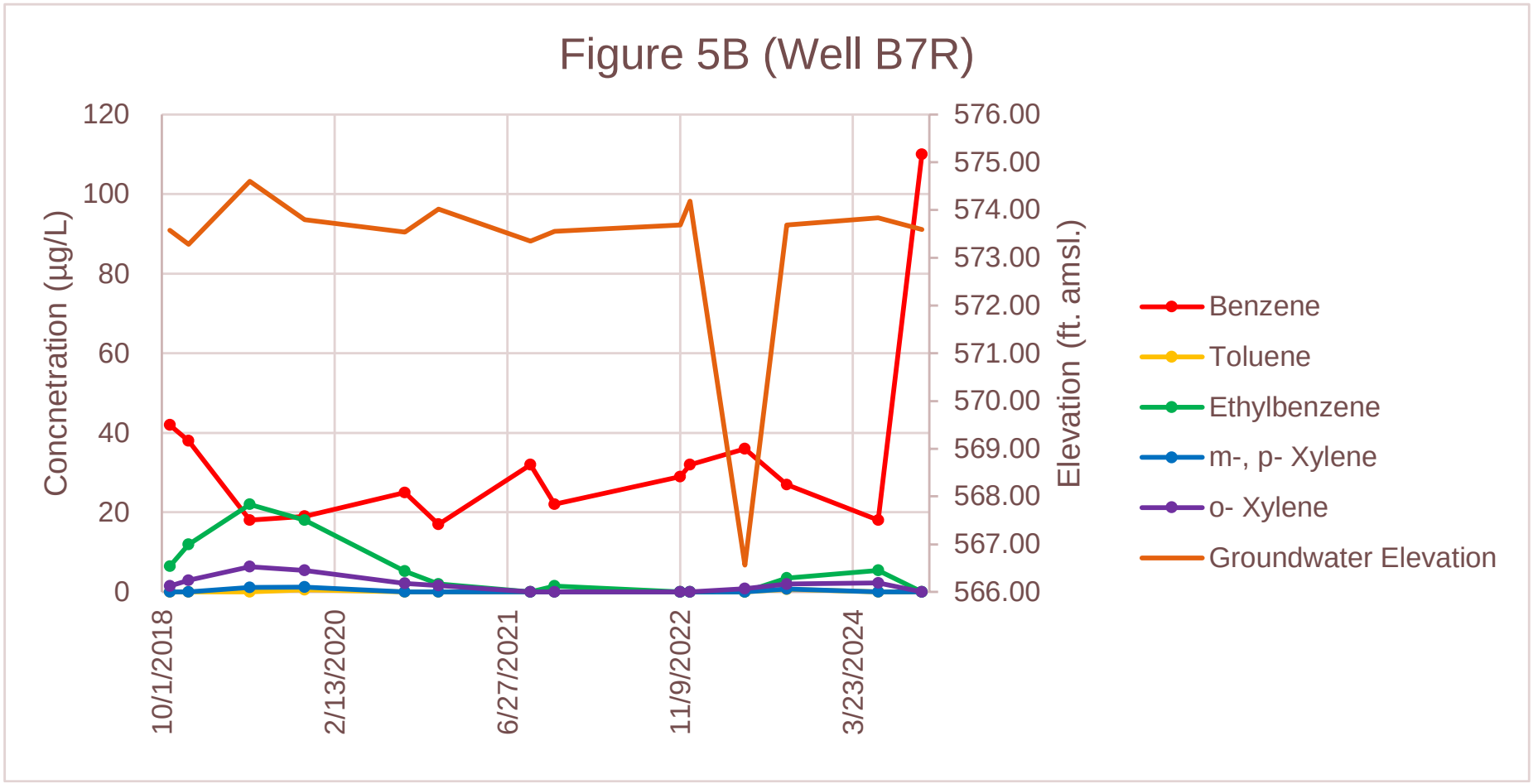
VOLATILE ORGANIC COMPOUND CONCENTRATIONS OCTOBER 9, 2024

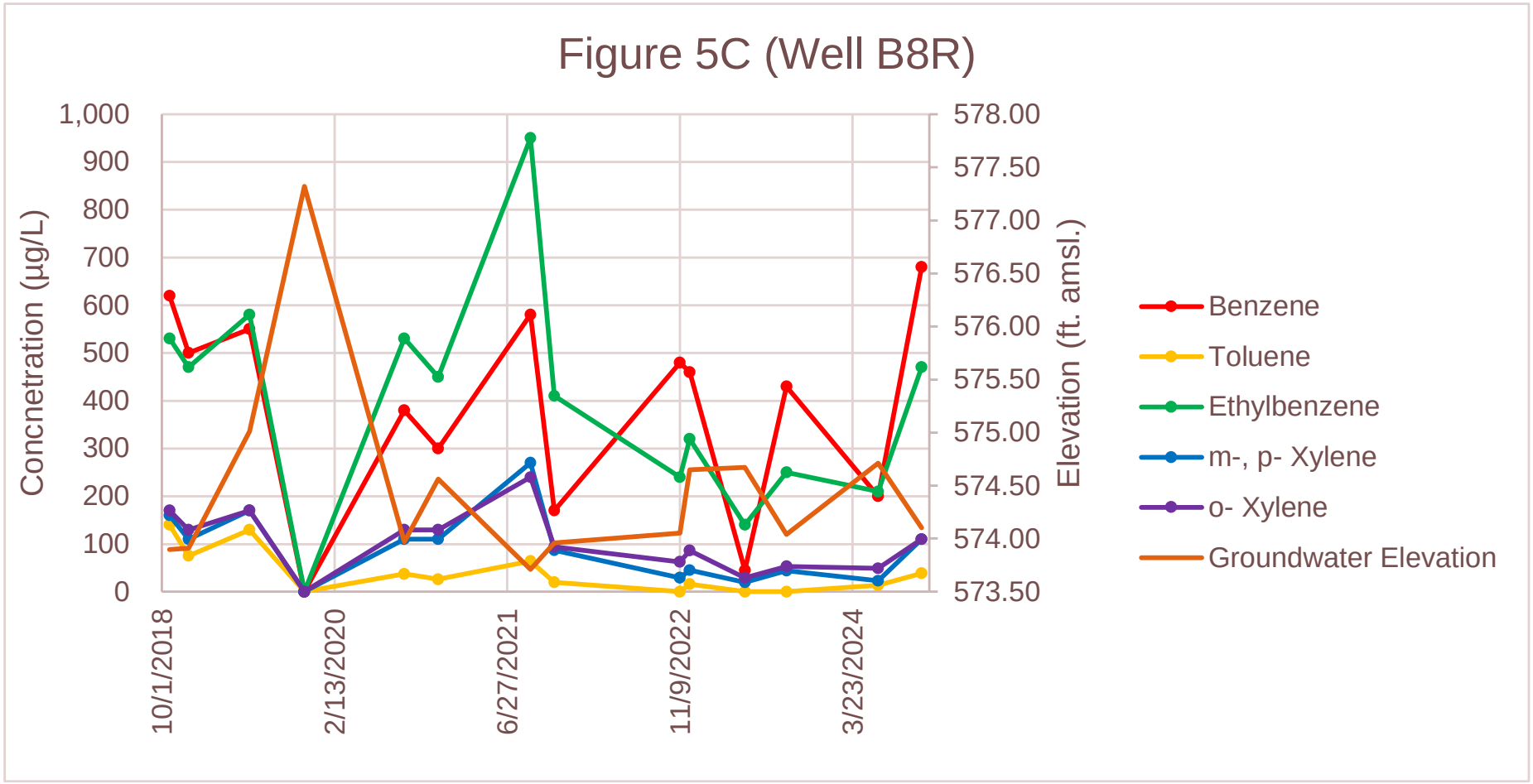
ARCADIS Design & Consultancy for natural and built assets

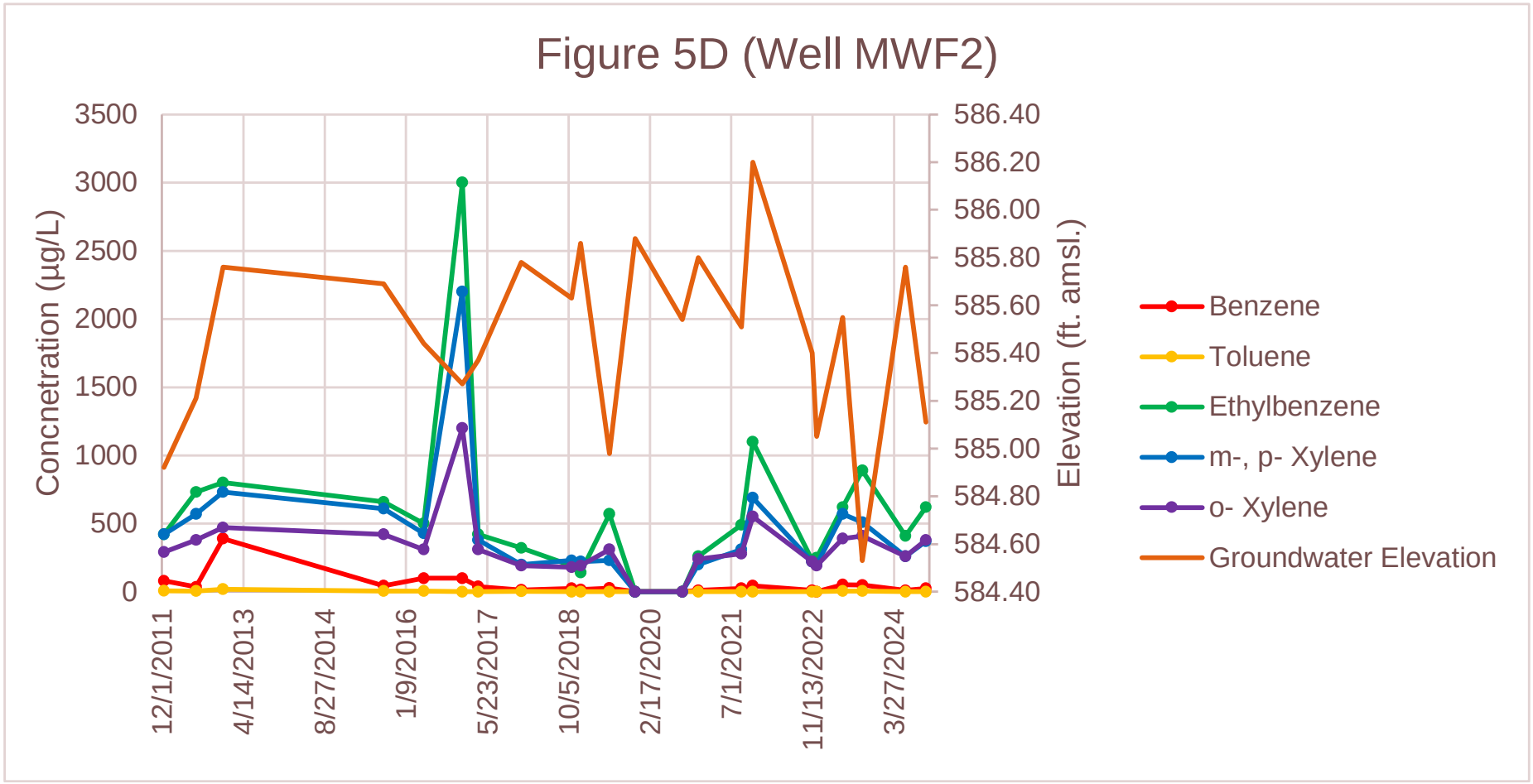
FIGURE 4

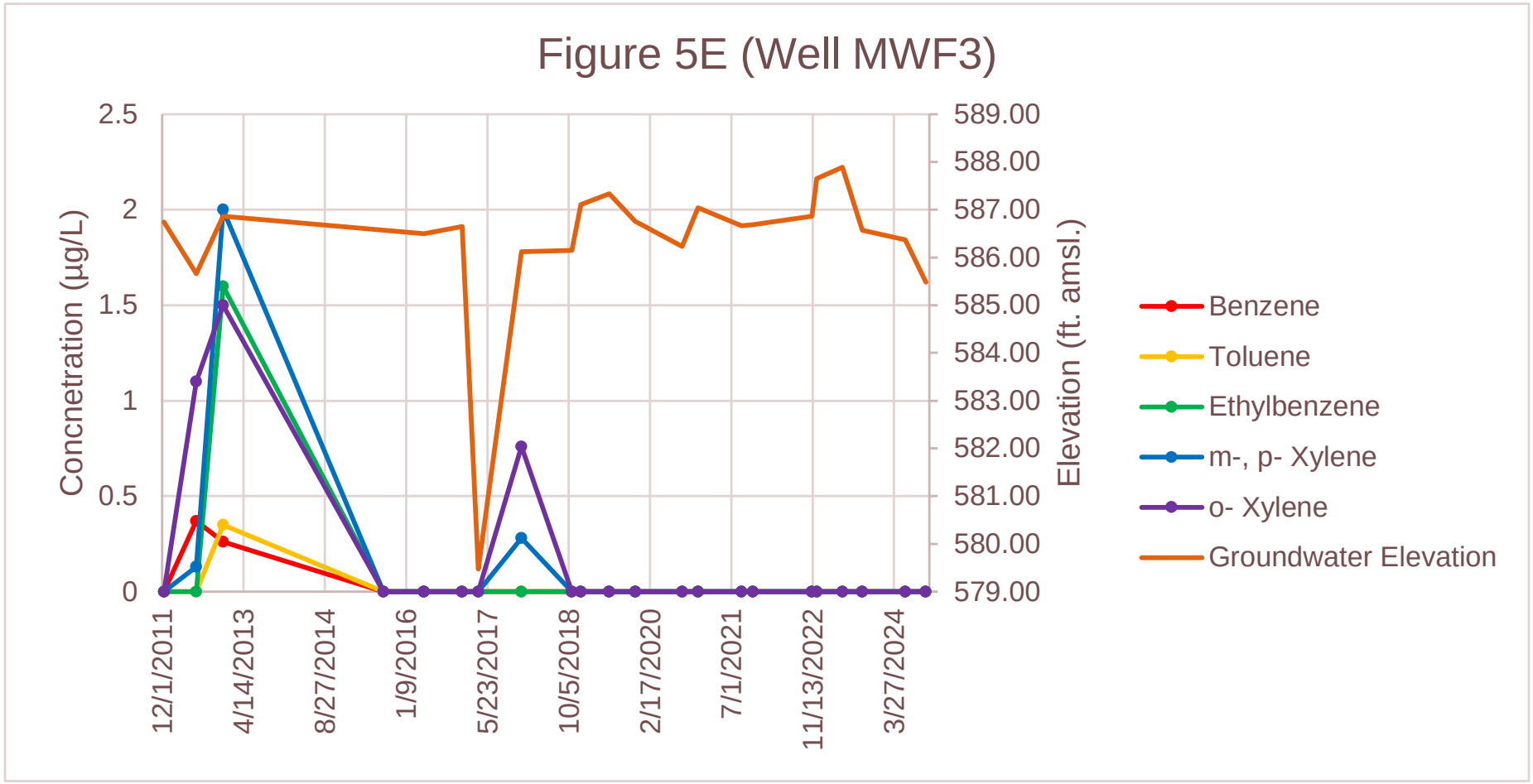
CITY: DIV/GROUP: DB: PMTM: LYR:(OptION=*;OFF=*REF*
C:\Users\AZoanetti\OneDrive - ARCADIS\Documents\Projects\Bristol-Myers Squibb\BMS Buffalo, NY\PRR\GW FIGURES.dwg LAYOUT: 4 SAVED: 3/31/2025 3:53 PM ACADVER: 24.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 4/16/2025 10:07 AM BY: ZOANETTI, ANDREW

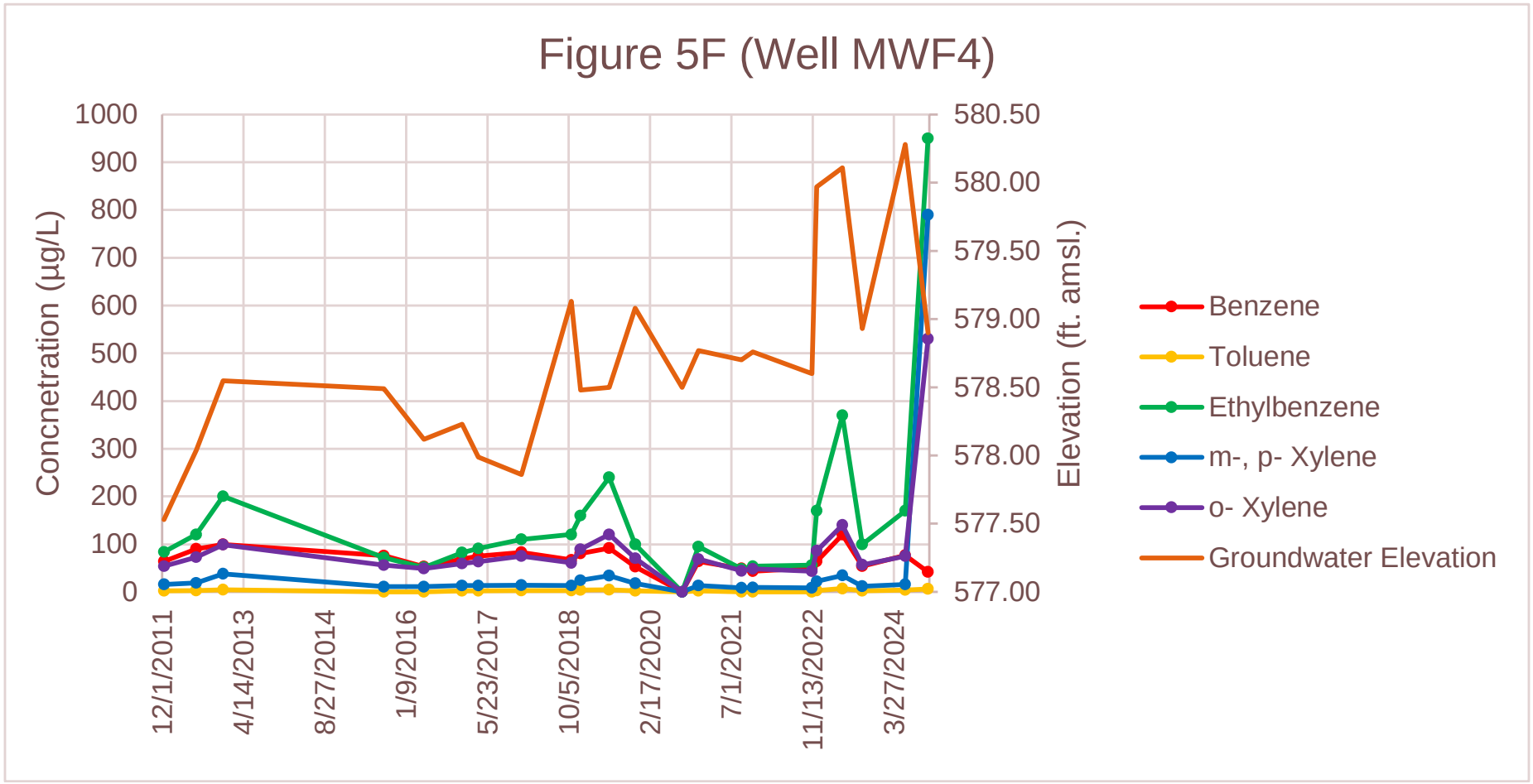

Figure 5A (Well B6R)
Concnetration (µg/L)
2.5
2.0
1.5
1.0
0.5
0.0
Elevation (ft. amsl.)
576.00
574.00
572.00
570.00
568.00
566.00
564.00
10/1/2018
2/13/2020
6/27/2021
11/9/2022
3/23/2024
Benzene
Toluene
Ethylbenzene
m-, p- Xylene
o- Xylene
Groundwater Elevation

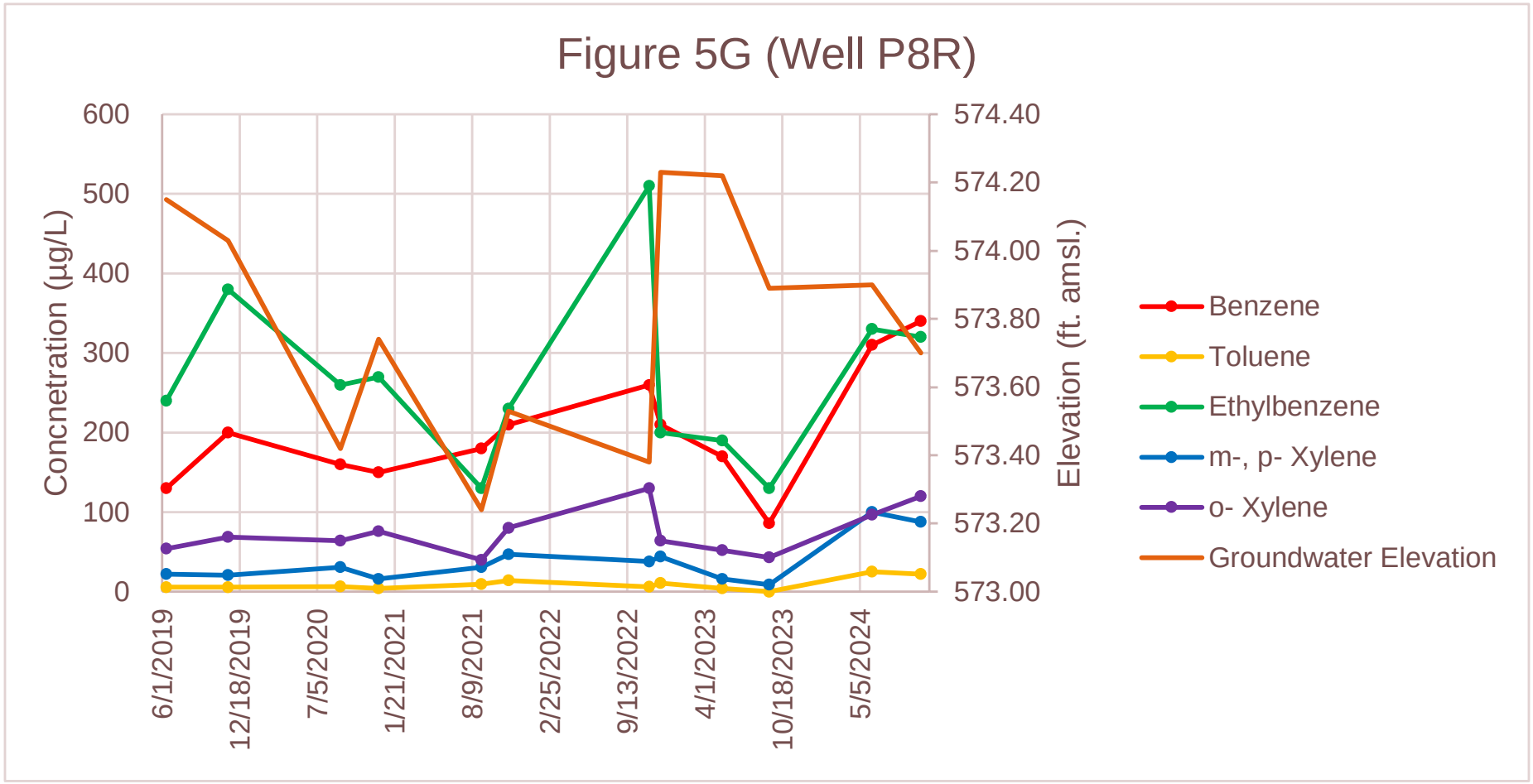

Figure 5B (Well B7R)
Concnetration (µg/L)
120
100
80
60
40
20
0
Elevation (ft. amsl.)
576.00
575.00
574.00
573.00
572.00
571.00
570.00
569.00
568.00
567.00
566.00
10/1/2018
2/13/2020
6/27/2021
11/9/2022
3/23/2024
Benzene
Toluene
Ethylbenzene
m-, p- Xylene
o- Xylene
Groundwater Elevation


Figure 5C (Well B8R)
Concnetration (µg/L)
1,000
900
800
700
600
500
400
300
200
100
0
Elevation (ft. amsl.)
578.00
577.50
577.00
576.50
576.00
575.50
575.00
574.50
574.00
573.50
10/1/2018
2/13/2020
6/27/2021
11/9/2022
3/23/2024
Benzene
Toluene
Ethylbenzene
m-, p- Xylene
o- Xylene
Groundwater Elevation


Figure 5D (Well MWF2)
Concnetration (µg/L)
3500
3000
2500
2000
1500
1000
500
0
Elevation (ft. amsl.)
586.40
586.20
586.00
585.80
585.60
585.40
585.20
585.00
584.80
584.60
584.40
12/1/2011
4/14/2013
8/27/2014
1/9/2016
5/23/2017
10/5/2018
2/17/2020
7/1/2021
11/13/2022
3/27/2024
Benzene
Toluene
Ethylbenzene
m-, p- Xylene
o- Xylene
Groundwater Elevation


Figure 5E (Well MWF3)
Concnetration (µg/L)
2.5
2
1.5
1
0.5
0
589.00
588.00
587.00
586.00
585.00
584.00
583.00
582.00
581.00
580.00
579.00
Elevation (ft. amsl.)
12/1/2011
4/14/2013
8/27/2014
1/9/2016
5/23/2017
10/5/2018
2/17/2020
7/1/2021
11/13/2022
3/27/2024
Benzene
Toluene
Ethylbenzene
m-, p- Xylene
o- Xylene
Groundwater Elevation


Figure 5F (Well MWF4)
Concnetration (µg/L)
1000
900
800
700
600
500
400
300
200
100
0
Elevation (ft. amsl.)
580.50
580.00
579.50
579.00
578.50
578.00
577.50
577.00
12/1/2011
4/14/2013
8/27/2014
1/9/2016
5/23/2017
10/5/2018
2/17/2020
7/1/2021
11/13/2022
3/27/2024
Benzene
Toluene
Ethylbenzene
m-, p- Xylene
o- Xylene
Groundwater Elevation


Figure 5G (Well P8R)
Concnetration (µg/L)
600
500
400
300
200
100
0
Elevation (ft. amsl.)
574.40
574.20
574.00
573.80
573.60
573.40
573.20
573.00
6/1/2019
12/18/2019
7/5/2020
1/21/2021
8/9/2021
2/25/2022
9/13/2022
4/1/2023
10/18/2023
5/5/2024
Benzene
Toluene
Ethylbenzene
m-, p- Xylene
o- Xylene
Groundwater Elevation

Attachment 1 – Groundwater Purge and Sampling Logs

Groundwater Gauging Table
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St. Buffalo, New York

ARCADIS

Measured By: WH/JTG Date: 6/4/24

	Well ID	Time	Total Depth (ft.)	Depth to Water (ft.)	Notes
	B19	0810	22.97	10.41	SB
	B3	—	—	—	—
*	~~B6R~~	~~0825~~	~~36.70~~	~~23.46~~	~~SB~~
*	B7R	0855	29.37	17.75	SB, trace DNAPL
*	B8R	0949	29.78	17.45	SB
	MWF1	1145	19.91	8.18	HB
*	MWF2	1031	30.65	8.90	SB
*	MWF3	1021	19.15	5.29	HB
*	MWF4	1001	23.35	13.72	HB
	MWF5	0958	29.63	12.12	MB
	MWS2	1025	84.25	10.83	HB
	MWS4	0928	85.52	11.73	SB
	P1	0916	22.15	14.59	HB
	P2	0820	27.55	17.03	SB
	P6R	0912	30.81	16.98	SB NAPL
	P7R	0845 ~~0830~~	29.90	17.43	HB
*	P8R	0900	30.78	17.38	HB
	PF3	0935	25.26	14.63	HB
	PF4	0951	31.60	14.61	SB NAPL
	PF6	1218	27.50	6.97	SB
	PS1	1143	48.45	10.65	~~SB~~ HB
	PS2	1040	93.20	12.55	HB
	TP1	0910	26.95	17.40	SB
	TP2	0942	23.25	15.45	SB
	Pumping Sump in Trench	1003	—	19.03	—
*	B6R	0835	30.65	17.12	HB
	Bridge	1140	—	10.60	—

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS Buffalo | Project No.:

Site Location: Buffalo NY | Date: 6/4/2024

Well No.: B6R | Replicate No.: — | Weather: Partly cloudy 80°F

Sampling Personnel: Will Hughes | Sampling Time: Begin 1330 | End 1345

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	30.65
Depth to Water (ft bmp)	17.12
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	13.53
Casing Diameter	2"
Gallons in Well 1	2.20
Gallons Purged Prior to Sampling	6.60
Pump Intake	—
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1250 End 1330

Field Parameters

Color	clear, slightly cloudy
Odor	none
Appearance	slightly cloudy, minor particulates

	I	1V	2V	3V
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) 1)				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	–	–	–	–
Time				
DTW (ft bmp)				

Remarks:

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS Buffalo | Project No.:

Site Location: Buffalo NY | Date: 6/5/24

Well No.: B7R | Replicate No.: — | Weather: 70°F, sunny

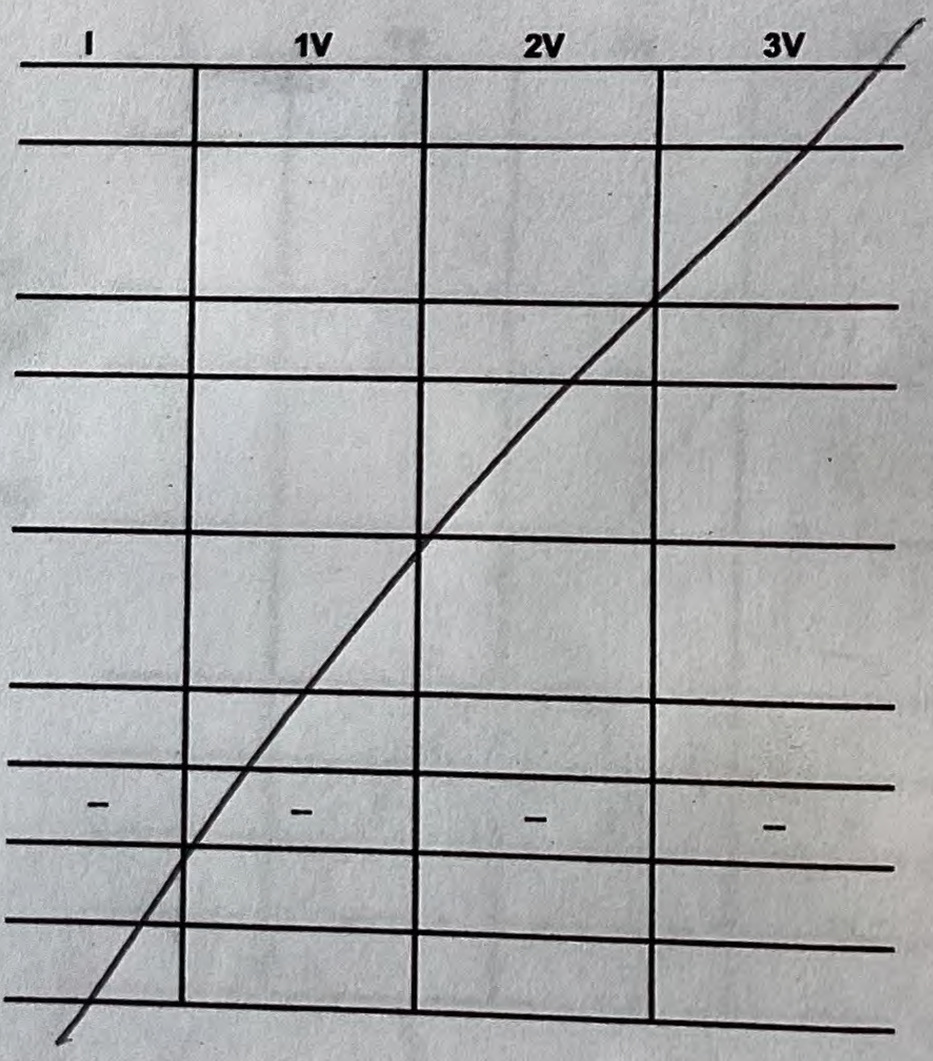
Sampling Personnel: Will Hughes | Sampling Time: Begin 0805 | End 0820

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	29.50
Depth to Water (ft bmp)	17.80
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	11.70
Casing Diameter	2"
Gallons in Well	1.90
Gallons Purged Prior to Sampling	5.75
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 0745 End 0805

Field Parameters

Color	Gray
Odor	minor odor
Appearance	minor particulates, gray color
pH (s.u.)	
Conductivity (mS/cm) or (µmhos/cm) [1]	
Temperature (°C)	
DO (mg/L)	
ORP (mV)	
Turbidity (NTU)	– – – –
Time	
DTW (ft bmp)	



Remarks:

Parameter	Container	No.	Preservative
Btex	VOA	3	HCl
DVP-06052024	VOA	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS Buffalo | Project No.:

Site Location: Buffalo NY | Date: 6/5/2024

Well No.: B8R | Replicate No.: — | Weather: 75°F, Partly Cloudy

Sampling Personnel: Will Hughes | Sampling Time: Begin 0945 | End 10:30

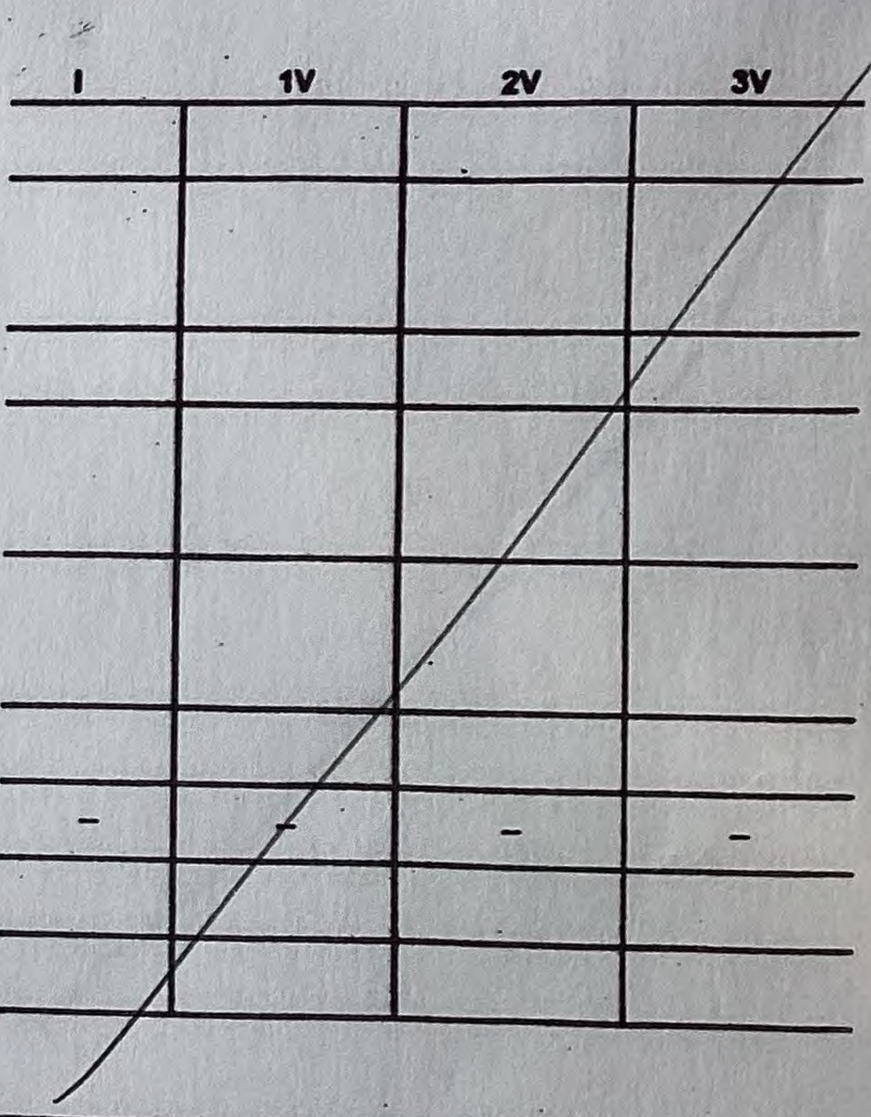
Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	29.80
Depth to Water (ft bmp)	17.50
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	12.30
Casing Diameter	2"
Gallons in Well	2.00
Gallons Purged Prior to Sampling	6.00
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time Begin 0910 End 0940	

Field Parameters

Color	clear
Odor	none
Appearance	very minimal particulates, clear

	1	1V	2V	3V
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) [1]				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	–	–	–	–
Time				
DTW (ft bmp)				



Remarks:

Parameter	Container	No.	Preservative
Btex	voa	3	HCl
MS/MSD	voa	6	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS Buffalo | Project No.:

Site Location: Buffalo, NY | Date: 6/5/24

Well No.: MW-72 | Replicate No.: — | Weather: 73°F Cloudy

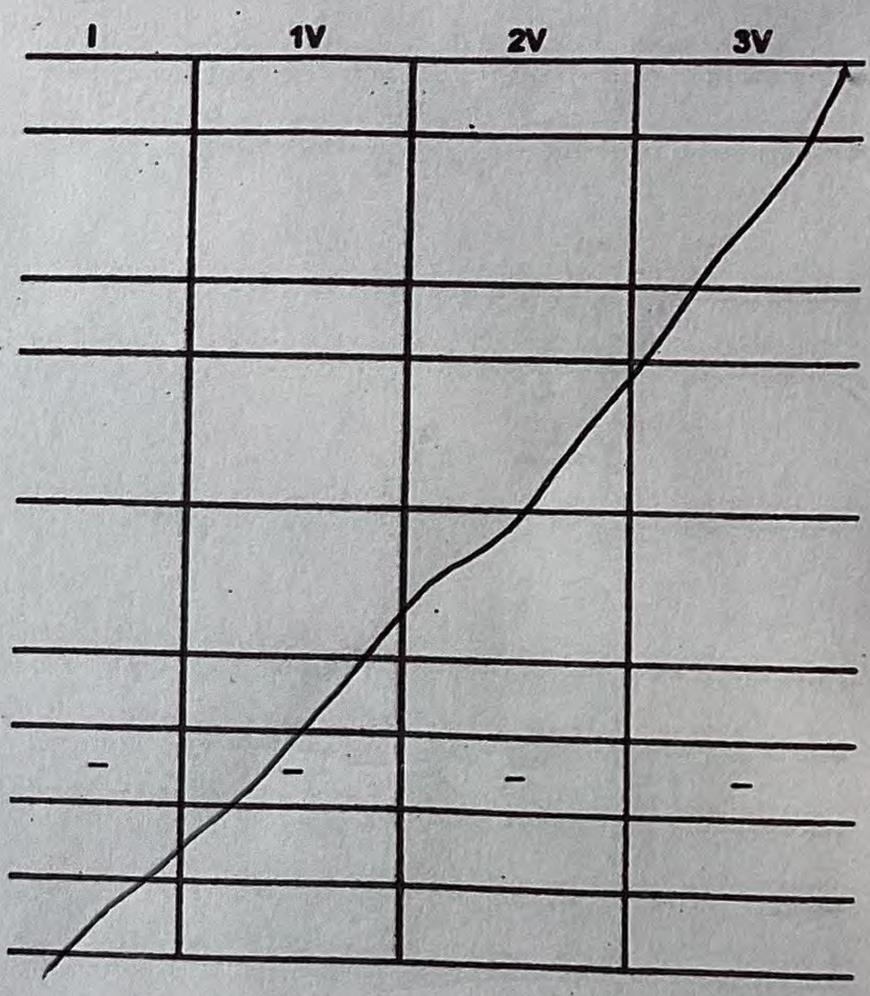
Sampling Personnel: JTG | Sampling Time: Begin 1320 End 1323

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	38.65
Depth to Water (ft bmp)	8.82
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	21.83
Casing Diameter	2"
Gallons in Well	3.55
Gallons Purged Prior to Sampling	10.65
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time Begin 1247 End 1320	

Field Parameters

Color	Clear
Odor	Yes
Appearance	Clear w/ some Globules
pH (s.u.)	
Conductivity (mS/cm) or (µmhos/cm) [1]	
Temperature (°C)	
DO (mg/L)	
ORP (mV)	
Turbidity (NTU)	– – – –
Time	
DTW (ft bmp)	



Remarks:

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project BMS | Project No. _____

Site Location Buffalo, NY | Date 6/5/24

Well No. MWF3 | Replicate No. — | Weather 73°F Light Rain

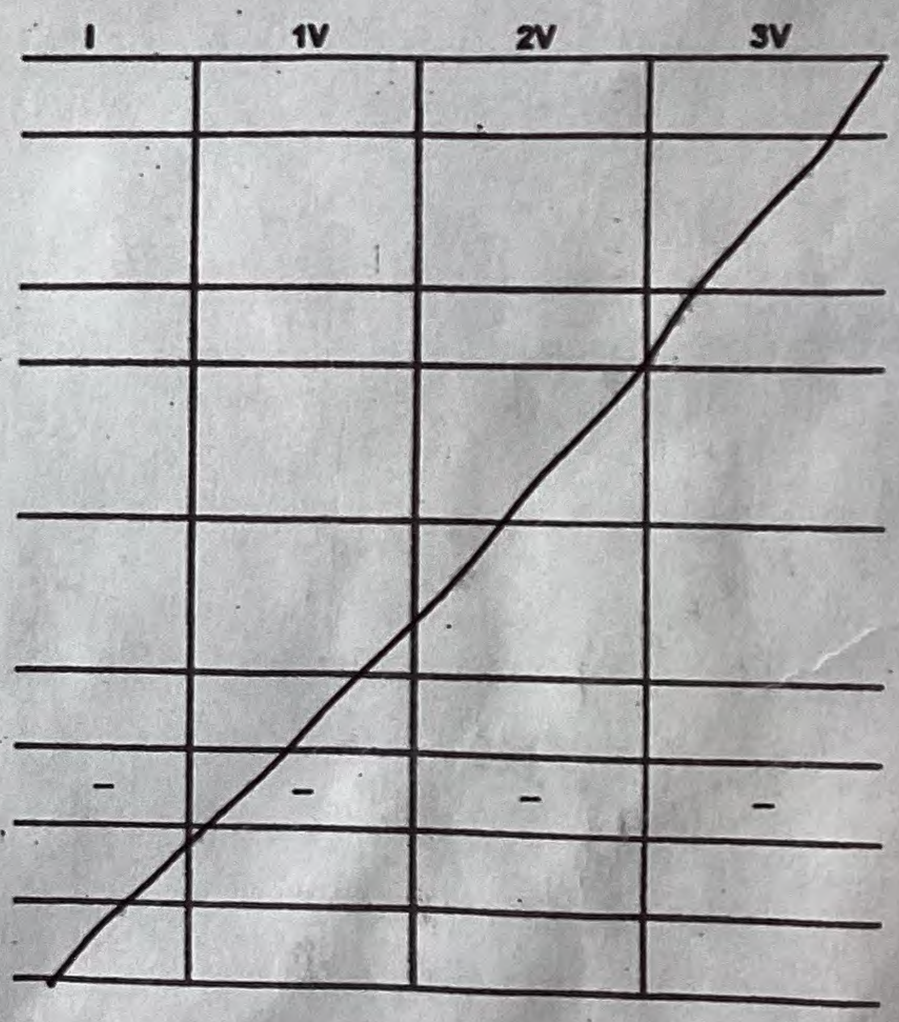
Sampling Personnel JTG/WH | Sampling Time: Begin 1411 | End 1413

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	19.15
Depth to Water (ft bmp)	5.30
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	13.85
Casing Diameter	2"
Gallons in Well	2.21
Gallons Purged Prior to Sampling	6.63
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time Begin	1357 End 1411

Field Parameters

Color	Light+Brown
Odor	Yes
Appearance	Cloudy
pH (s.u.)	
Conductivity (mS/cm) or (µmhos/cm) [1]	
Temperature (°C)	
DO (mg/L)	
ORP (mV)	
Turbidity (NTU)	– – – –
Time	
DTW (ft bmp)	



Remarks:

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCL

PID Reading N/A

Well Casing Volumes

Gal./Ft.	1¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1¼" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS Buffalo | Project No.:

Site Location: Buffalo NY | Date: 6/5/24

Well No.: MWF-4 | Replicate No.: — | Weather: 77°F, cloudy

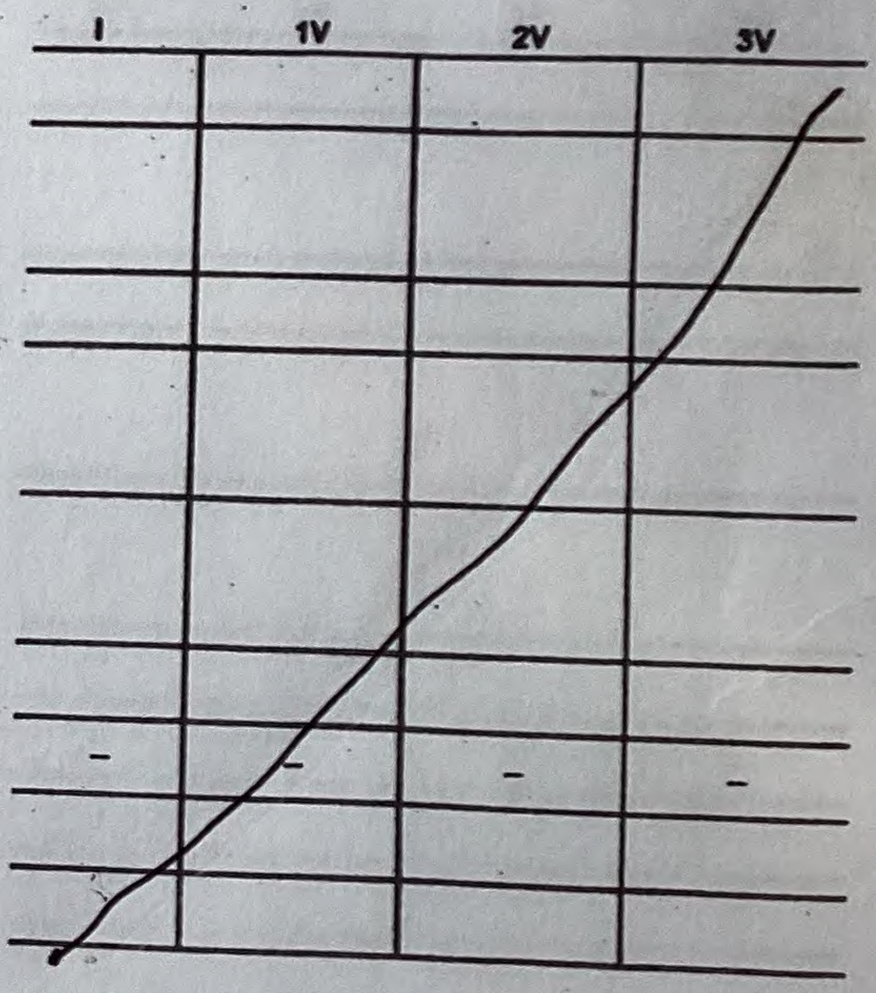
Sampling Personnel: Will Hughes | Sampling Time: Begin 1218 | End 1220

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	23.48
Depth to Water (ft bmp)	13.76
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	9.72
Casing Diameter	~~9.72~~ 2"
Gallons in Well	1.58
Gallons Purged Prior to Sampling	4.74
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1200 End 1218

Field Parameters

Color	Clear
Odor	None
Appearance	Clear
pH (s.u.)	
Conductivity (mS/cm) or (µmhos/cm) [1]	
Temperature (°C)	
DO (mg/L)	
ORP (mV)	
Turbidity (NTU)	
Time	
DTW (ft bmp)	



Remarks:

Parameter	Container	No.	Preservative
Btex	Voa	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS Buffalo — Project No.: —

Site Location: Buffalo NY — Date: 6/11/2024

Well No.: P8R — Replicate No.: — — Weather: 80° F, partly cloudy

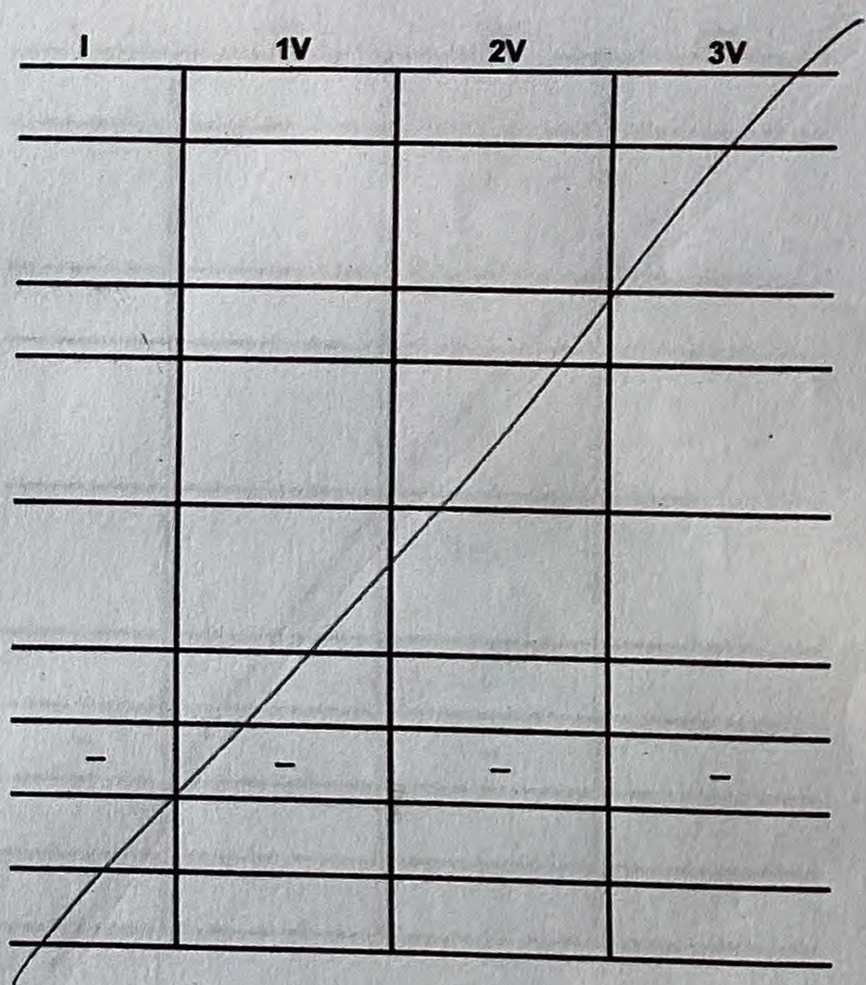
Sampling Personnel: Will Hughes — Sampling Time: Begin 1430 — End 1445

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	30.78
Depth to Water (ft bmp)	17.38
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	13.40
Casing Diameter	2"
Gallons in Well	2.18
Gallons Purged Prior to Sampling	6.54
Pump Intake	—
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1400 End 1430

Field Parameters

Color	slightly gray
Odor	none
Appearance	cloudy, minor particulates
pH (s.u.)	
Conductivity (mS/cm) or (µmhos/cm) [1]	
Temperature (°C)	
DO (mg/L)	
ORP (mV)	
Turbidity (NTU)	– – – –
Time	
DTW (ft bmp)	



Remarks:

Parameter	Container	No.	Preservative
Btex	voa	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

Groundwater Gauging Table
Former Iroquois Gas/Westwood Pharmaceutical Site
120 Dart St. and 40 Bradley St. Buffalo, New York

ARCADIS

Measured By: JTG/KF Date: 10/9/24

Well ID	Time	Total Depth (ft.)	Depth to Water (ft.)	Notes
B19	0711	24.52	10.25	SB
B3	—	—	—	Destroyed
• B6R	0727	30.63	17.21	FB
• B7R	0732	29.24	18.08	FB
• B8R	0812	29.59	18.06	SB LNAPL & DNAPL
MWF1	0901	19.83	9.77	FB
• MWF2	0925	30.55	9.55	SB
• MWF3	0915	19.12	6.18	FB
• MWF4	0803	~~19.25~~	15.10	HB (23.30) DTB
MWF5	0805	29.43	13.57	FB
MWS2	0918	~~85.75~~	11.07	SB (83.19) DTB
MWS4	0751	84.68	12.03	SB
P1	0713	21.82	14.84	FB
P2	0724	27.27	17.01	FB
P6R	0744	30.59	17.61	SB
P7R	0729	29.86	17.65	FB
• P8R	0736	30.62	17.55	FB
PF3	0756	25.27	14.45	FB
PF4	0817	31.43	19.67	FB
PF6	0930	27.18	5.71	FB
PS1	0859	46.79	10.92	FB
PS2	0907	82.46	12.79	FB
TP1	0738	26.98	17.56	FB
TP2	0810	23.28	15.91	FB
Pumping Sump in Trench	1231	—	18.97	—
Bride	0850	—	11.09	—

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS | Project No.:

Site Location: Buffalo, NY | Date: 10/9/24

Well No.: BGR | Replicate No.: — | Weather: cloudy, 54°

Sampling Personnel: JTG B KCF | Sampling Time: ~~Begin~~ 1440 ~~End~~

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	30.63
Depth to Water (ft bmp)	
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	13.42
Casing Diameter	2"
Gallons in Well	2.18
Gallons Purged Prior to Sampling	6.54
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1420 End 1440

Field Parameters

	1	1V	2V	3V
Color	light brown			
Odor	slight			
Appearance	cloudy			
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) [1]				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	-	-	-	-
Time				
DTW (ft bmp)				

Remarks:

DTW after Purge: 1725

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS | Project No.:

Site Location: | Date: 10/9/24

Well No.: B7R | Replicate No.: — | Weather: cloudy, 54°

Sampling Personnel: JTG & KCF | Sampling Time: ~~Begin~~ 1415 ~~End~~

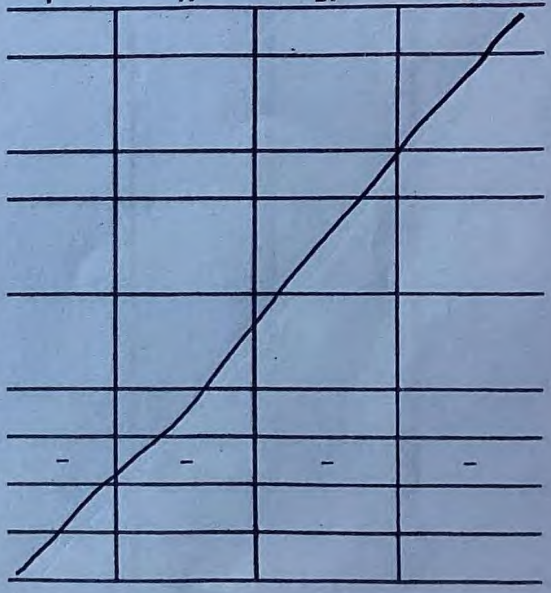
Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	29.24
Depth to Water (ft bmp)	
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	11.24
Casing Diameter	2"
Gallons in Well	1.83
Gallons Purged Prior to Sampling	5.49
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	
Sampling Method	
Purge Time	Begin 1400 End 1420

Field Parameters

Color	Light brown
Odor	none
Appearance	cloudy

	1	1V	2V	3V
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) 1)				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	–	–	–	–
Time				
DTW (ft bmp)				



Remarks:

~~DTB~~ DTW after purge: 18.04

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS — Project No.:

Site Location: Buffalo, NY — Date: 10/9/24

Well No.: B8R — Replicate No.: — — Weather: Partly cloudy, 57°

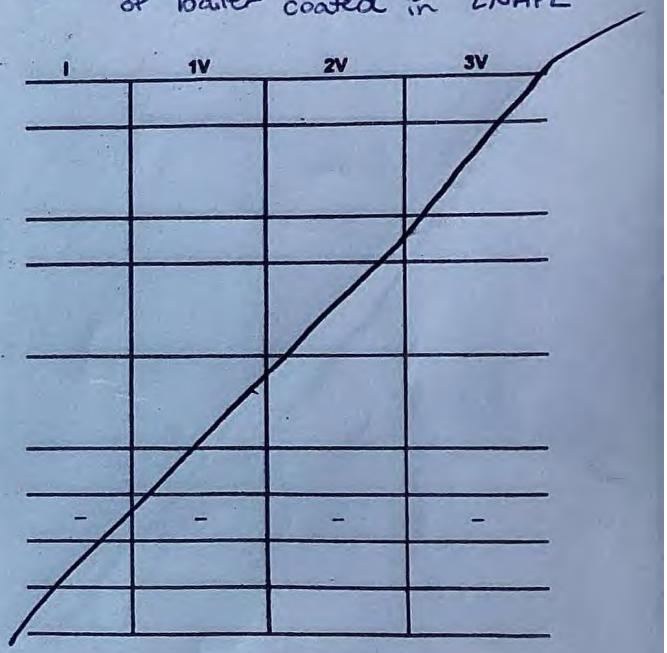
Sampling Personnel: ICCF & JTG — Sampling Time: Begin 1255 — End

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	29.59
Depth to Water (ft bmp)	18.37
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	11.53
Casing Diameter	2"
Gallons in Well	1.87
Gallons Purged	
Prior to Sampling	5.63
Pump Intake	
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1230 End 1255

Field Parameters

	I	1V	2V	3V
Color	clear/light brown			
Odor	slight			
Appearance	some LNAPL blebs; outside of bailer coated in LNAPL			
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) 1)				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	-	-	-	-
Time				
DTW (ft bmp)				



Remarks: DUP

DTW after purge: 18.11

Parameter	Container	No.	Preservative
BTEX	VOA	6	HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

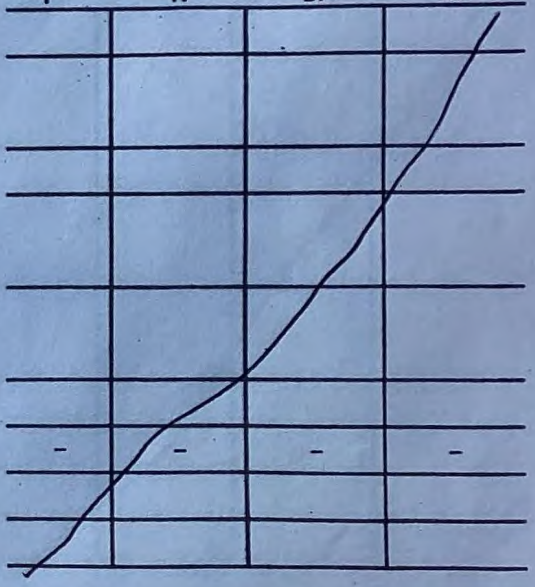
Project: BMS | Project No.:
Site Location: Buffalo, NY | Date: 10/9/24
Well No.: MWF2 | Replicate No.: – | Weather: 530 F Sunny
Sampling Personnel: JT6/KF | Sampling Time: Begin 1057 | End

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	30.55
Depth to Water (ft bmp)	9.55
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	21.00
Casing Diameter	2"
Gallons in Well	3.4
Gallons Purged	
Prior to Sampling	10.20
Pump Intake	—
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1031 End 1055

Field Parameters

	I	1V	2V	3V
Color	Light Brown			
Odor	Yes			
Appearance	Cloudy			
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) [1]				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	–	–	–	–
Time				
DTW (ft bmp)				



Remarks: DTW after purge: 15.67

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS | Project No.:

Site Location: Buffalo, NY | Date: 10/9/24

Well No.: MWF3 | Replicate No.: — | Weather: Sunny, 53°

Sampling Personnel: KCF & JTG | Sampling Time: Begin 1050 | ~~End~~

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	19.12
Depth to Water (ft bmp)	
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	12.94
Casing Diameter	2"
Gallons in Well	2.10
Gallons Purged Prior to Sampling	6.30
Pump Intake Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1020 End 1050

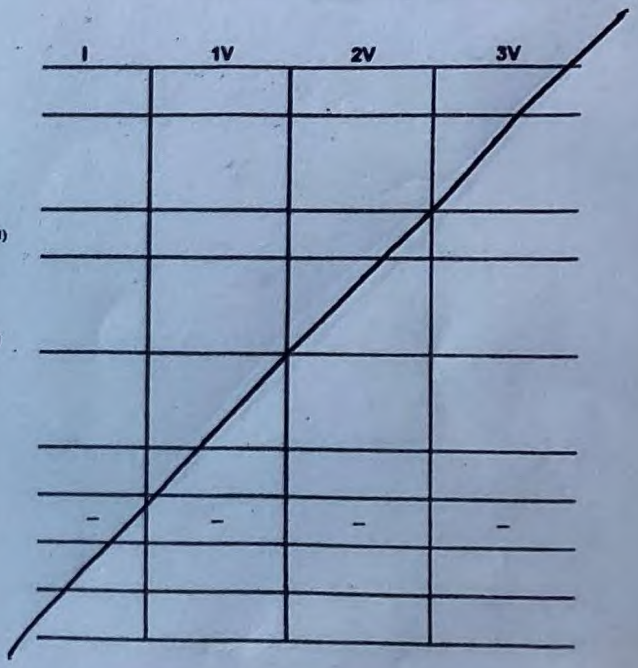
Field Parameters

Color: Light brown

Odor: none

Appearance: cloudy/murky; some sediment

	1	1V	2V	3V
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) [1]				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	-	-	-	-
Time				
DTW (ft bmp)				



Remarks: MS/MSD

DTW after purge: 9.57

Parameter	Container	No.	Preservative
BTEX	VOA	9	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS | Project No.:

Site Location: Buffalo, NY | Date: 10/9/24

Well No.: MWF4 | Replicate No.: — | Weather: 570 F SUNNY

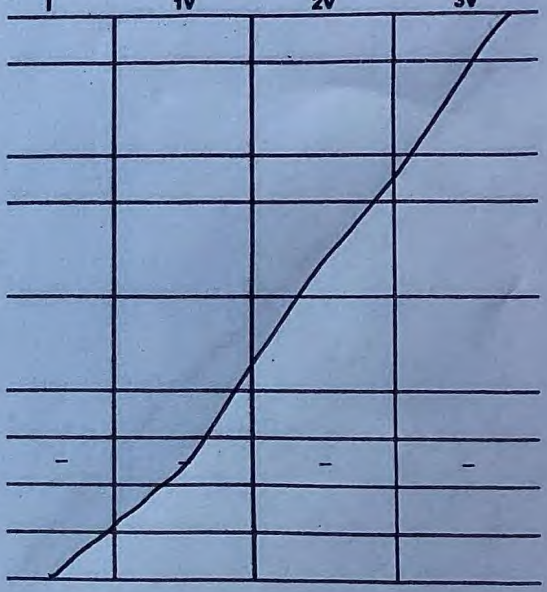
Sampling Personnel: JT6/KF | Sampling Time: Begin 1259 | ~~End~~

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	23.30
Depth to Water (ft bmp)	15.08
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	8.20
Casing Diameter	2"
Gallons in Well	1.33
Gallons Purged	
Prior to Sampling	4.00
Pump Intake	
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1239 End 1258

Field Parameters

	I	1V	2V	3V
Color	Light Brown			
Odor	Yes			
Appearance	Cloudy w/ Sheen/Globules			
pH (s.u.)				
Conductivity (mS/cm) or (µmhos/cm) [1]				
Temperature (°C)				
DO (mg/L)				
ORP (mV)				
Turbidity (NTU)	-		-	-
Time				
DTW (ft bmp)				



Remarks: DTW after Purge: 21.24

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCl

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1 1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/2" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

1) Circle one unit type

ARCADIS | Design & Consultancy for natural and built assets

Water Sampling Log

Project: BMS — Project No.: _____

Site Location: Buffalo, NY — Date: 10/9/24

Well No.: P8R — Replicate No.: — — Weather: Cloudy, 54°

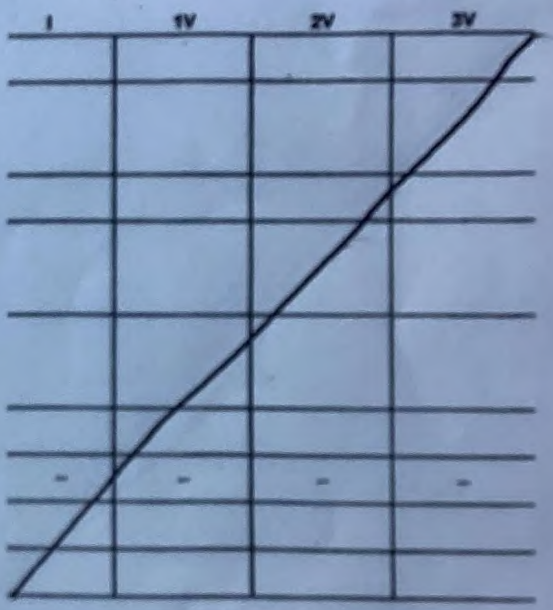
Sampling Personnel: ICCF B JTG — Sampling Time: Begin 1345 — End _____

Purge Data

Measuring Point (describe)	TOC
Sounded Well Depth (ft bmp)	30.62
Depth to Water (ft bmp)	17.58
Depth to Packer (ft bmp)	—
Water Column in Well (ft)	13.04
Casing Diameter	2"
Gallons in Well	2.12
Gallons Purged	
Prior to Sampling	6.37
Pump Intake	—
Setting (ft bmp)	—
Packer Pressure (psi)	—
Pumping Rate (gpm)	—
Evacuation Method	Bailer
Sampling Method	Bailer
Purge Time	Begin 1320 End 1345

Field Parameters

Color	light brown/gray
Odor	slight
Appearance	some sheen, cloudy, trace LNAPL on outside of bailer
pH (s.u.)	
Conductivity (mS/cm) or (µmhos/cm) [1]	
Temperature (°C)	
DO (mg/L)	
ORP (mV)	
Turbidity (NTU)	- - - -
Time	
DTW (ft bmp)	



Remarks:

DTW after purge : 19.60

Parameter	Container	No.	Preservative
BTEX	VOA	3	HCL

PID Reading: N/A

Well Casing Volumes

Gal./Ft.				
	1" = 0.04	2" = 0.16	3" = 0.37	4" = 0.65
	1 1/4" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

1) Circle one unit type

Attachment 2 – Laboratory Reports

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 6/13/2024 11:38:10 AM Revision 1

JOB DESCRIPTION

Semi-Annual

JOB NUMBER

480-220524-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

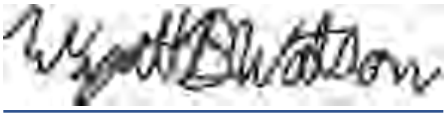
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
6/13/2024 11:38:10 AM
Revision 1

Authorized for release by
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 8
Surrogate Summary 17
QC Sample Results 18
QC Association Summary 22
Lab Chronicle 23
Certification Summary 25
Method Summary 26
Sample Summary 27
Chain of Custody 28
Receipt Checklists 29

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
480-220524-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Revision
The report being provided is a revision of the original report sent on 6/12/2024. The report (revision 1) is being revised to include m-Xylene & p-Xylene, and o-Xylene results.

Receipt
The samples were received on 6/6/2024 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.0º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: P8R (480-220524-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MWF2 (480-220524-4) and MWF4 (480-220524-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MWF3 (480-220524-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MWF2 (480-220524-4).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: B8R (480-220524-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-714990 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: B6R — Lab Sample ID: 480-220524-1

No Detections.

Client Sample ID: B7R — Lab Sample ID: 480-220524-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	18		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	5.4		1.0	0.74	ug/L	1		8260C	Total/NA
o-Xylene	2.3		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	2.3		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: B8R — Lab Sample ID: 480-220524-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	200	F1	5.0	2.1	ug/L	5		8260C	Total/NA
Toluene	13		5.0	2.6	ug/L	5		8260C	Total/NA
Ethylbenzene	210		5.0	3.7	ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	23		10	3.3	ug/L	5		8260C	Total/NA
o-Xylene	49		5.0	3.8	ug/L	5		8260C	Total/NA
Xylenes, Total	72		10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: MWF2 — Lab Sample ID: 480-220524-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		10	4.1	ug/L	10		8260C	Total/NA
Ethylbenzene	410		10	7.4	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	260		20	6.6	ug/L	10		8260C	Total/NA
o-Xylene	260		10	7.6	ug/L	10		8260C	Total/NA
Xylenes, Total	520		20	6.6	ug/L	10		8260C	Total/NA

Client Sample ID: MWF3 — Lab Sample ID: 480-220524-5

No Detections.

Client Sample ID: MWF4 — Lab Sample ID: 480-220524-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	77		4.0	1.6	ug/L	4		8260C	Total/NA
Toluene	3.8	J	4.0	2.0	ug/L	4		8260C	Total/NA
Ethylbenzene	170		4.0	3.0	ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	16		8.0	2.6	ug/L	4		8260C	Total/NA
o-Xylene	75		4.0	3.0	ug/L	4		8260C	Total/NA
Xylenes, Total	91		8.0	2.6	ug/L	4		8260C	Total/NA

Client Sample ID: P8R — Lab Sample ID: 480-220524-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	310		5.0	2.1	ug/L	5		8260C	Total/NA
Toluene	25		5.0	2.6	ug/L	5		8260C	Total/NA
Ethylbenzene	330		5.0	3.7	ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	100		10	3.3	ug/L	5		8260C	Total/NA
o-Xylene	97		5.0	3.8	ug/L	5		8260C	Total/NA
Xylenes, Total	200		10	3.3	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: DUP-06052024 — Lab Sample ID: 480-220524-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	19		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	4.5		1.0	0.74	ug/L	1		8260C	Total/NA
o-Xylene	2.2		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	2.2		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK-06042024 — Lab Sample ID: 480-220524-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: B6R

Date Collected: 06/04/24 13:30
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/06/24 20:34	1
Toluene	ND		1.0	0.51	ug/L			06/06/24 20:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/06/24 20:34	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/06/24 20:34	1
o-Xylene	ND		1.0	0.76	ug/L			06/06/24 20:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/06/24 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/06/24 20:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*06/06/24 20:34*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*06/06/24 20:34*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*06/06/24 20:34*	*1*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: B7R

Date Collected: 06/05/24 08:05
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**18**		1.0	0.41	ug/L			06/06/24 20:56	1
Toluene	ND		1.0	0.51	ug/L			06/06/24 20:56	1
Ethylbenzene	**5.4**		1.0	0.74	ug/L			06/06/24 20:56	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/06/24 20:56	1
o-Xylene	**2.3**		1.0	0.76	ug/L			06/06/24 20:56	1
Xylenes, Total	**2.3**		2.0	0.66	ug/L			06/06/24 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/06/24 20:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*06/06/24 20:56*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*06/06/24 20:56*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/06/24 20:56*	*1*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: B8R

Date Collected: 06/05/24 09:45
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	200	F1	5.0	2.1	ug/L			06/10/24 13:56	5
Toluene	13		5.0	2.6	ug/L			06/10/24 13:56	5
Ethylbenzene	210		5.0	3.7	ug/L			06/10/24 13:56	5
m-Xylene & p-Xylene	23		10	3.3	ug/L			06/10/24 13:56	5
o-Xylene	49		5.0	3.8	ug/L			06/10/24 13:56	5
Xylenes, Total	72		10	3.3	ug/L			06/10/24 13:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/10/24 13:56*	*5*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*06/10/24 13:56*	*5*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*06/10/24 13:56*	*5*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*06/10/24 13:56*	*5*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: MWF2

Date Collected: 06/05/24 13:23
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-4

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**11**		10	4.1	ug/L			06/08/24 03:07	10
Toluene	ND		10	5.1	ug/L			06/08/24 03:07	10
Ethylbenzene	**410**		10	7.4	ug/L			06/08/24 03:07	10
m-Xylene & p-Xylene	**260**		20	6.6	ug/L			06/08/24 03:07	10
o-Xylene	**260**		10	7.6	ug/L			06/08/24 03:07	10
Xylenes, Total	**520**		20	6.6	ug/L			06/08/24 03:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/08/24 03:07*	*10*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*06/08/24 03:07*	*10*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/08/24 03:07*	*10*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/08/24 03:07*	*10*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: MWF3
Date Collected: 06/05/24 14:13
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			06/08/24 03:32	4
Toluene	ND		4.0	2.0	ug/L			06/08/24 03:32	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/08/24 03:32	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			06/08/24 03:32	4
o-Xylene	ND		4.0	3.0	ug/L			06/08/24 03:32	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/08/24 03:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/08/24 03:32*	*4*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/08/24 03:32*	*4*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/08/24 03:32*	*4*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/08/24 03:32*	*4*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: MWF4

Date Collected: 06/05/24 12:20
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-6

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	77		4.0	1.6	ug/L			06/08/24 03:57	4
Toluene	3.8	J	4.0	2.0	ug/L			06/08/24 03:57	4
Ethylbenzene	170		4.0	3.0	ug/L			06/08/24 03:57	4
m-Xylene & p-Xylene	16		8.0	2.6	ug/L			06/08/24 03:57	4
o-Xylene	75		4.0	3.0	ug/L			06/08/24 03:57	4
Xylenes, Total	91		8.0	2.6	ug/L			06/08/24 03:57	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/08/24 03:57*	*4*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*06/08/24 03:57*	*4*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/08/24 03:57*	*4*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/08/24 03:57*	*4*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: P8R

Date Collected: 06/04/24 14:30
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**310**		5.0	2.1	ug/L			06/07/24 04:37	5
Toluene	**25**		5.0	2.6	ug/L			06/07/24 04:37	5
Ethylbenzene	**330**		5.0	3.7	ug/L			06/07/24 04:37	5
m-Xylene & p-Xylene	**100**		10	3.3	ug/L			06/07/24 04:37	5
o-Xylene	**97**		5.0	3.8	ug/L			06/07/24 04:37	5
Xylenes, Total	**200**		10	3.3	ug/L			06/07/24 04:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/07/24 04:37*	*5*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/07/24 04:37*	*5*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/07/24 04:37*	*5*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/07/24 04:37*	*5*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: DUP-06052024

Date Collected: 06/05/24 00:00
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-8

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**19**		1.0	0.41	ug/L			06/10/24 14:21	1
Toluene	ND		1.0	0.51	ug/L			06/10/24 14:21	1
Ethylbenzene	**4.5**		1.0	0.74	ug/L			06/10/24 14:21	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/10/24 14:21	1
o-Xylene	**2.2**		1.0	0.76	ug/L			06/10/24 14:21	1
Xylenes, Total	**2.2**		2.0	0.66	ug/L			06/10/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*06/10/24 14:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/10/24 14:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/10/24 14:21*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/10/24 14:21*	*1*

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: TRIP BLANK-06042024

Lab Sample ID: 480-220524-9

Date Collected: 06/04/24 00:00

Matrix: Water

Date Received: 06/06/24 16:30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/06/24 21:19	1
Toluene	ND		1.0	0.51	ug/L			06/06/24 21:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/06/24 21:19	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/06/24 21:19	1
o-Xylene	ND		1.0	0.76	ug/L			06/06/24 21:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/06/24 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/06/24 21:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*06/06/24 21:19*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/06/24 21:19*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/06/24 21:19*	*1*

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-220524-1	B6R	91	111	91	105
480-220524-2	B7R	89	116	88	102
480-220524-3	B8R	100	102	106	100
480-220524-3 MS	B8R MS	98	102	95	103
480-220524-3 MSD	B8R MSD	99	103	102	104
480-220524-4	MWF2	97	106	100	98
480-220524-5	MWF3	98	105	103	98
480-220524-6	MWF4	100	107	103	98
480-220524-7	P8R	100	105	104	98
480-220524-8	DUP-06052024	95	103	99	98
480-220524-9	TRIP BLANK-06042024	93	109	96	99
LCS 480-714691/7	Lab Control Sample	95	118	92	100
LCS 480-714732/6	Lab Control Sample	101	105	102	104
LCS 480-714881/6	Lab Control Sample	100	104	99	105
LCS 480-714990/6	Lab Control Sample	99	103	100	107
LCSD 480-714691/30	Lab Control Sample Dup	90	106	87	99
LCSD 480-714732/45	Lab Control Sample Dup	102	104	105	103
MB 480-714691/9	Method Blank	88	109	89	101
MB 480-714732/8	Method Blank	99	103	104	99
MB 480-714881/8	Method Blank	99	101	102	96
MB 480-714990/8	Method Blank	96	103	99	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-714691/9
Matrix: Water
Analysis Batch: 714691

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/06/24 15:53	1
Toluene	ND		1.0	0.51	ug/L			06/06/24 15:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/06/24 15:53	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/06/24 15:53	1
o-Xylene	ND		1.0	0.76	ug/L			06/06/24 15:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/06/24 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*06/06/24 15:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*06/06/24 15:53*	*1*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*		*06/06/24 15:53*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/06/24 15:53*	*1*

Lab Sample ID: LCS 480-714691/7
Matrix: Water
Analysis Batch: 714691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			25.0	25.4		ug/L		101	71 - 124		
Toluene			25.0	26.2		ug/L		105	80 - 122		
Ethylbenzene			25.0	27.7		ug/L		111	77 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: LCSD 480-714691/30
Matrix: Water
Analysis Batch: 714691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			25.0	24.1		ug/L		97	71 - 124	5	13
Toluene			25.0	26.3		ug/L		105	80 - 122	0	15
Ethylbenzene			25.0	27.4		ug/L		110	77 - 123	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-714732/8
Matrix: Water
Analysis Batch: 714732

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/07/24 01:40	1
Toluene	ND		1.0	0.51	ug/L			06/07/24 01:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/07/24 01:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/07/24 01:40	1
o-Xylene	ND		1.0	0.76	ug/L			06/07/24 01:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/07/24 01:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/07/24 01:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/07/24 01:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/07/24 01:40*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/07/24 01:40*	*1*

Lab Sample ID: LCS 480-714732/6
Matrix: Water
Analysis Batch: 714732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			25.0	27.6		ug/L		110	71 - 124		
Toluene			25.0	25.5		ug/L		102	80 - 122		
Ethylbenzene			25.0	26.0		ug/L		104	77 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: LCSD 480-714732/45
Matrix: Water
Analysis Batch: 714732

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			25.0	27.3		ug/L		109	71 - 124	1	13
Toluene			25.0	26.0		ug/L		104	80 - 122	2	15
Ethylbenzene			25.0	26.4		ug/L		106	77 - 123	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-714881/8
Matrix: Water
Analysis Batch: 714881

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/08/24 02:17	1
Toluene	ND		1.0	0.51	ug/L			06/08/24 02:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/08/24 02:17	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/08/24 02:17	1
o-Xylene	ND		1.0	0.76	ug/L			06/08/24 02:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/08/24 02:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/08/24 02:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*06/08/24 02:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*06/08/24 02:17*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*06/08/24 02:17*	*1*

Lab Sample ID: LCS 480-714881/6
Matrix: Water
Analysis Batch: 714881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	27.3		ug/L		109	71 - 124
Toluene	25.0	24.7		ug/L		99	80 - 122
Ethylbenzene	25.0	25.3		ug/L		101	77 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

Lab Sample ID: MB 480-714990/8
Matrix: Water
Analysis Batch: 714990

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			06/10/24 12:52	1
Toluene	ND		1.0	0.51	ug/L			06/10/24 12:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/10/24 12:52	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			06/10/24 12:52	1
o-Xylene	ND		1.0	0.76	ug/L			06/10/24 12:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/10/24 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/10/24 12:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*06/10/24 12:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/10/24 12:52*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*06/10/24 12:52*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-714990/6
Matrix: Water
Analysis Batch: 714990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			25.0	25.2		ug/L		101	71 - 124		
Toluene			25.0	23.2		ug/L		93	80 - 122		
Ethylbenzene			25.0	23.7		ug/L		95	77 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Lab Sample ID: 480-220524-3 MS
Matrix: Water
Analysis Batch: 714990

Client Sample ID: B8R MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	200	F1	125	362	F1	ug/L		133	71 - 124		
Toluene	13		125	136		ug/L		99	80 - 122		
Ethylbenzene	210		125	340		ug/L		100	77 - 123		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: 480-220524-3 MSD
Matrix: Water
Analysis Batch: 714990

Client Sample ID: B8R MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	200	F1	125	364	F1	ug/L		134	71 - 124	0	13
Toluene	13		125	137		ug/L		99	80 - 122	0	15
Ethylbenzene	210		125	345		ug/L		104	77 - 123	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

GC/MS VOA

Analysis Batch: 714691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220524-1	B6R	Total/NA	Water	8260C	
480-220524-2	B7R	Total/NA	Water	8260C	
480-220524-9	TRIP BLANK-06042024	Total/NA	Water	8260C	
MB 480-714691/9	Method Blank	Total/NA	Water	8260C	
LCS 480-714691/7	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-714691/30	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 714732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220524-7	P8R	Total/NA	Water	8260C	
MB 480-714732/8	Method Blank	Total/NA	Water	8260C	
LCS 480-714732/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-714732/45	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 714881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220524-4	MWF2	Total/NA	Water	8260C	
480-220524-5	MWF3	Total/NA	Water	8260C	
480-220524-6	MWF4	Total/NA	Water	8260C	
MB 480-714881/8	Method Blank	Total/NA	Water	8260C	
LCS 480-714881/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 714990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-220524-3	B8R	Total/NA	Water	8260C	
480-220524-8	DUP-06052024	Total/NA	Water	8260C	
MB 480-714990/8	Method Blank	Total/NA	Water	8260C	
LCS 480-714990/6	Lab Control Sample	Total/NA	Water	8260C	
480-220524-3 MS	B8R MS	Total/NA	Water	8260C	
480-220524-3 MSD	B8R MSD	Total/NA	Water	8260C	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: B6R
Date Collected: 06/04/24 13:30
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	714691	CC	EET BUF	06/06/24 20:34

Client Sample ID: B7R
Date Collected: 06/05/24 08:05
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	714691	CC	EET BUF	06/06/24 20:56

Client Sample ID: B8R
Date Collected: 06/05/24 09:45
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	714990	ERS	EET BUF	06/10/24 13:56

Client Sample ID: MWF2
Date Collected: 06/05/24 13:23
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	714881	ERS	EET BUF	06/08/24 03:07

Client Sample ID: MWF3
Date Collected: 06/05/24 14:13
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	714881	ERS	EET BUF	06/08/24 03:32

Client Sample ID: MWF4
Date Collected: 06/05/24 12:20
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	714881	ERS	EET BUF	06/08/24 03:57

Client Sample ID: P8R
Date Collected: 06/04/24 14:30
Date Received: 06/06/24 16:30

Lab Sample ID: 480-220524-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	714732	ERS	EET BUF	06/07/24 04:37

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Client Sample ID: DUP-06052024

Lab Sample ID: 480-220524-8

Date Collected: 06/05/24 00:00

Matrix: Water

Date Received: 06/06/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	714990	ERS	EET BUF	06/10/24 14:21

Client Sample ID: TRIP BLANK-06042024

Lab Sample ID: 480-220524-9

Date Collected: 06/04/24 00:00

Matrix: Water

Date Received: 06/06/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	714691	CC	EET BUF	06/06/24 21:19

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	06-11-24

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi-Annual

Job ID: 480-220524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-220524-1	B6R	Water	06/04/24 13:30	06/06/24 16:30
480-220524-2	B7R	Water	06/05/24 08:05	06/06/24 16:30
480-220524-3	B8R	Water	06/05/24 09:45	06/06/24 16:30
480-220524-4	MWF2	Water	06/05/24 13:23	06/06/24 16:30
480-220524-5	MWF3	Water	06/05/24 14:13	06/06/24 16:30
480-220524-6	MWF4	Water	06/05/24 12:20	06/06/24 16:30
480-220524-7	P8R	Water	06/04/24 14:30	06/06/24 16:30
480-220524-8	DUP-06052024	Water	06/05/24 00:00	06/06/24 16:30
480-220524-9	TRIP BLANK-06042024	Water	06/04/24 00:00	06/06/24 16:30

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information

Client Contact: Mr. Raymond Wagner
Company: Arcadis U.S., Inc.
Address: One Lincoln Center 110 West Fayette St, Suite 300
City: Syracuse
State, Zip: NY, 13202
Phone:
Email: raymond.wagner@arcadis.com
Project Name: Iroquois Gas/Westwood Pharm.-Semi-Annual
Site: New York

Sampler: Jason Gutkowski
Phone: 315 436 3605
PWSID:
Due Date Requested:
TAT Requested (days): Standard Turn
Compliance Project: Δ Yes Δ No
PO #: 30125855 task 00002
WO #: 30003542-00001
Project #: 48011056
SSOW#:

Lab PM: Schove, John R
E-Mail: John.Schove@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-196664-36164.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes: A - HCL

480-220524 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
[illegible]	—	—	G	Water				0	
B6R	6/4/24	1330		Water			X	3	
B7R	6/5/24	0805		Water			X	3	
B8R	6/5/24	0945		Water			X	3	
MWF2	6/5/24	1323		Water			X	9	MS/MSD
MWF3	6/5/24	1413		Water			X	3	
MWF4	6/5/24	1220		Water			X	3	
P8R	6/4/24	1435		Water			X	3	
DUP-06052024	06/5/24	—		Water			X	3	
TRIP BLANK-06042024	6/4/24	—		Water			X	2	

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Dan Gabbani	6/5/24 / 1425	Arcadis	Received by: Christian Miller	6/5/24 1630	TA
Relinquished by: Will Hamilton	6/5/24 / 1450	Arcadis	Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: SIO # 1316

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-220524-1

Login Number: 220524
List Number: 1
Creator: Stopa, Erik S

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 10/18/2024 4:43:23 PM Revision 1

JOB DESCRIPTION

Semi Annual

JOB NUMBER

480-224181-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
10/18/2024 4:43:23 PM
Revision 1

Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 15
QC Sample Results 16
QC Association Summary 18
Lab Chronicle 19
Certification Summary 21
Method Summary 22
Sample Summary 23
Chain of Custody 24
Receipt Checklists 25

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-224181-1 Eurofins Buffalo

Job Narrative
480-224181-1

REVISION
The report being provided is a revision of the original report sent on 10/18/2024. The report (revision 1) is being revised to report the individual Xylene isomers.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/9/2024 3:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
All analysis on sample MWF4 (480-224181-6) was canceled by the client.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: B7R (480-224181-2), MWF2 (480-224181-4), P8R (480-224181-7) and DUP (480-224181-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MWF3 (480-224181-5), MWF3 (480-224181-5[MS]) and MWF3 (480-224181-5[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MWF2 (480-224181-4).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: B8R (480-224181-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: B6R — Lab Sample ID: 480-224181-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.81	J	1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	1.6		1.0	0.74	ug/L	1		8260C	Total/NA

Client Sample ID: B7R — Lab Sample ID: 480-224181-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	110		2.0	0.82	ug/L	2		8260C	Total/NA

Client Sample ID: B8R — Lab Sample ID: 480-224181-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	680		10	4.1	ug/L	10		8260C	Total/NA
Toluene	39		10	5.1	ug/L	10		8260C	Total/NA
Ethylbenzene	470		10	7.4	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	110		20	6.6	ug/L	10		8260C	Total/NA
o-Xylene	110		10	7.6	ug/L	10		8260C	Total/NA

Client Sample ID: MWF2 — Lab Sample ID: 480-224181-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	24		10	4.1	ug/L	10		8260C	Total/NA
Ethylbenzene	620		10	7.4	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	370		20	6.6	ug/L	10		8260C	Total/NA
o-Xylene	380		10	7.6	ug/L	10		8260C	Total/NA

Client Sample ID: MWF3 — Lab Sample ID: 480-224181-5

No Detections.

Client Sample ID: P8R — Lab Sample ID: 480-224181-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	340		5.0	2.1	ug/L	5		8260C	Total/NA
Toluene	22		5.0	2.6	ug/L	5		8260C	Total/NA
Ethylbenzene	320		5.0	3.7	ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	88		10	3.3	ug/L	5		8260C	Total/NA
o-Xylene	120		5.0	3.8	ug/L	5		8260C	Total/NA

Client Sample ID: DUP — Lab Sample ID: 480-224181-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	840		10	4.1	ug/L	10		8260C	Total/NA
Toluene	41		10	5.1	ug/L	10		8260C	Total/NA
Ethylbenzene	510		10	7.4	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	100		20	6.6	ug/L	10		8260C	Total/NA
o-Xylene	120		10	7.6	ug/L	10		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-224181-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: B6R

Date Collected: 10/09/24 14:40
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-1

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.81**	**J**	1.0	0.41	ug/L			10/10/24 23:25	1
Toluene	ND		1.0	0.51	ug/L			10/10/24 23:25	1
Ethylbenzene	**1.6**		1.0	0.74	ug/L			10/10/24 23:25	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/10/24 23:25	1
o-Xylene	ND		1.0	0.76	ug/L			10/10/24 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/10/24 23:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/10/24 23:25*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*10/10/24 23:25*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/10/24 23:25*	*1*

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: B7R

Date Collected: 10/09/24 14:15
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-2

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**110**		2.0	0.82	ug/L			10/10/24 23:47	2
Toluene	ND		2.0	1.0	ug/L			10/10/24 23:47	2
Ethylbenzene	ND		2.0	1.5	ug/L			10/10/24 23:47	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			10/10/24 23:47	2
o-Xylene	ND		2.0	1.5	ug/L			10/10/24 23:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/10/24 23:47*	*2*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*10/10/24 23:47*	*2*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/10/24 23:47*	*2*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/10/24 23:47*	*2*

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: B8R

Date Collected: 10/09/24 12:55
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-3

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	680		10	4.1	ug/L			10/14/24 15:50	10
Toluene	39		10	5.1	ug/L			10/14/24 15:50	10
Ethylbenzene	470		10	7.4	ug/L			10/14/24 15:50	10
m-Xylene & p-Xylene	110		20	6.6	ug/L			10/14/24 15:50	10
o-Xylene	110		10	7.6	ug/L			10/14/24 15:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/14/24 15:50*	*10*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*10/14/24 15:50*	*10*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*10/14/24 15:50*	*10*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*10/14/24 15:50*	*10*

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: MWF2
Date Collected: 10/09/24 10:57
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-4
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**24**		10	4.1	ug/L			10/11/24 00:32	10
Toluene	ND		10	5.1	ug/L			10/11/24 00:32	10
Ethylbenzene	**620**		10	7.4	ug/L			10/11/24 00:32	10
m-Xylene & p-Xylene	**370**		20	6.6	ug/L			10/11/24 00:32	10
o-Xylene	**380**		10	7.6	ug/L			10/11/24 00:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/11/24 00:32*	*10*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/11/24 00:32*	*10*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/11/24 00:32*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*10/11/24 00:32*	*10*

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: MWF3
Date Collected: 10/09/24 10:50
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-5
Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.0	1.6	ug/L			10/11/24 00:55	4
Toluene	ND		4.0	2.0	ug/L			10/11/24 00:55	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/11/24 00:55	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			10/11/24 00:55	4
o-Xylene	ND		4.0	3.0	ug/L			10/11/24 00:55	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/11/24 00:55*	*4*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*10/11/24 00:55*	*4*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/11/24 00:55*	*4*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*10/11/24 00:55*	*4*

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: P8R

Date Collected: 10/09/24 13:45
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	340		5.0	2.1	ug/L			10/11/24 01:40	5
Toluene	22		5.0	2.6	ug/L			10/11/24 01:40	5
Ethylbenzene	320		5.0	3.7	ug/L			10/11/24 01:40	5
m-Xylene & p-Xylene	88		10	3.3	ug/L			10/11/24 01:40	5
o-Xylene	120		5.0	3.8	ug/L			10/11/24 01:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/11/24 01:40*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/11/24 01:40*	*5*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*10/11/24 01:40*	*5*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*10/11/24 01:40*	*5*

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: DUP

Date Collected: 10/09/24 00:00
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-8

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	840		10	4.1	ug/L			10/11/24 02:02	10
Toluene	41		10	5.1	ug/L			10/11/24 02:02	10
Ethylbenzene	510		10	7.4	ug/L			10/11/24 02:02	10
m-Xylene & p-Xylene	100		20	6.6	ug/L			10/11/24 02:02	10
o-Xylene	120		10	7.6	ug/L			10/11/24 02:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/11/24 02:02*	*10*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*10/11/24 02:02*	*10*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*10/11/24 02:02*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*10/11/24 02:02*	*10*

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: TRIP BLANK

Date Collected: 10/09/24 00:00
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-9

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			10/11/24 02:24	1
Toluene	ND		1.0	0.51	ug/L			10/11/24 02:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/11/24 02:24	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/11/24 02:24	1
o-Xylene	ND		1.0	0.76	ug/L			10/11/24 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/11/24 02:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*10/11/24 02:24*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*10/11/24 02:24*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*10/11/24 02:24*	*1*

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-224181-1	B6R	96	109	94	112
480-224181-2	B7R	97	107	96	114
480-224181-3	B8R	105	116	95	111
480-224181-4	MWF2	96	96	99	106
480-224181-5	MWF3	99	105	96	111
480-224181-5 MS	MWF3	99	99	98	105
480-224181-5 MSD	MWF3	99	96	101	100
480-224181-7	P8R	98	101	99	104
480-224181-8	DUP	95	103	98	106
480-224181-9	TRIP BLANK	98	99	98	103
LCS 480-727832/5	Lab Control Sample	98	102	99	105
LCS 480-728157/6	Lab Control Sample	106	112	92	106
MB 480-727832/7	Method Blank	99	105	98	115
MB 480-728157/8	Method Blank	102	112	92	110

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-727832/7
Matrix: Water
Analysis Batch: 727832

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			10/10/24 23:03	1
Toluene	ND		1.0	0.51	ug/L			10/10/24 23:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/10/24 23:03	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/10/24 23:03	1
o-Xylene	ND		1.0	0.76	ug/L			10/10/24 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/10/24 23:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*10/10/24 23:03*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*10/10/24 23:03*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/10/24 23:03*	*1*

Lab Sample ID: LCS 480-727832/5
Matrix: Water
Analysis Batch: 727832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	26.6		ug/L		107	71 - 124
Toluene	25.0	25.4		ug/L		101	80 - 122
Ethylbenzene	25.0	25.3		ug/L		101	77 - 123
m-Xylene & p-Xylene	25.0	24.9		ug/L		100	76 - 122
o-Xylene	25.0	24.3		ug/L		97	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

Lab Sample ID: 480-224181-5 MS
Matrix: Water
Analysis Batch: 727832

Client Sample ID: MWF3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		100	111		ug/L		111	71 - 124
Toluene	ND		100	106		ug/L		106	80 - 122
Ethylbenzene	ND		100	106		ug/L		106	77 - 123
m-Xylene & p-Xylene	ND		100	103		ug/L		103	76 - 122
o-Xylene	ND		100	104		ug/L		104	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-224181-5 MSD
Matrix: Water
Analysis Batch: 727832

Client Sample ID: MWF3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		100	109		ug/L		109	71 - 124	2	13
Toluene	ND		100	106		ug/L		106	80 - 122	0	15
Ethylbenzene	ND		100	107		ug/L		107	77 - 123	1	15
m-Xylene & p-Xylene	ND		100	104		ug/L		104	76 - 122	1	16
o-Xylene	ND		100	102		ug/L		102	76 - 122	2	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: MB 480-728157/8
Matrix: Water
Analysis Batch: 728157

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			10/14/24 14:39	1
Toluene	ND		1.0	0.51	ug/L			10/14/24 14:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/14/24 14:39	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/14/24 14:39	1
o-Xylene	ND		1.0	0.76	ug/L			10/14/24 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/14/24 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/14/24 14:39*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*10/14/24 14:39*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*10/14/24 14:39*	*1*

Lab Sample ID: LCS 480-728157/6
Matrix: Water
Analysis Batch: 728157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	24.1		ug/L		96	71 - 124
Toluene	25.0	23.5		ug/L		94	80 - 122
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
m-Xylene & p-Xylene	25.0	24.4		ug/L		97	76 - 122
o-Xylene	25.0	23.5		ug/L		94	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 123*

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

GC/MS VOA

Analysis Batch: 727832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224181-1	B6R	Total/NA	Water	8260C	
480-224181-2	B7R	Total/NA	Water	8260C	
480-224181-4	MWF2	Total/NA	Water	8260C	
480-224181-5	MWF3	Total/NA	Water	8260C	
480-224181-7	P8R	Total/NA	Water	8260C	
480-224181-8	DUP	Total/NA	Water	8260C	
480-224181-9	TRIP BLANK	Total/NA	Water	8260C	
MB 480-727832/7	Method Blank	Total/NA	Water	8260C	
LCS 480-727832/5	Lab Control Sample	Total/NA	Water	8260C	
480-224181-5 MS	MWF3	Total/NA	Water	8260C	
480-224181-5 MSD	MWF3	Total/NA	Water	8260C	

Analysis Batch: 728157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224181-3	B8R	Total/NA	Water	8260C	
MB 480-728157/8	Method Blank	Total/NA	Water	8260C	
LCS 480-728157/6	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: B6R
Lab Sample ID: 480-224181-1
Date Collected: 10/09/24 14:40
Matrix: Water
Date Received: 10/09/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	727832	ZN	EET BUF	10/10/24 23:25

Client Sample ID: B7R
Lab Sample ID: 480-224181-2
Date Collected: 10/09/24 14:15
Matrix: Water
Date Received: 10/09/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	727832	ZN	EET BUF	10/10/24 23:47

Client Sample ID: B8R
Lab Sample ID: 480-224181-3
Date Collected: 10/09/24 12:55
Matrix: Water
Date Received: 10/09/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	728157	ZN	EET BUF	10/14/24 15:50

Client Sample ID: MWF2
Lab Sample ID: 480-224181-4
Date Collected: 10/09/24 10:57
Matrix: Water
Date Received: 10/09/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	727832	ZN	EET BUF	10/11/24 00:32

Client Sample ID: MWF3
Lab Sample ID: 480-224181-5
Date Collected: 10/09/24 10:50
Matrix: Water
Date Received: 10/09/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	727832	ZN	EET BUF	10/11/24 00:55

Client Sample ID: P8R
Lab Sample ID: 480-224181-7
Date Collected: 10/09/24 13:45
Matrix: Water
Date Received: 10/09/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	727832	ZN	EET BUF	10/11/24 01:40

Client Sample ID: DUP
Lab Sample ID: 480-224181-8
Date Collected: 10/09/24 00:00
Matrix: Water
Date Received: 10/09/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	727832	ZN	EET BUF	10/11/24 02:02

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Client Sample ID: TRIP BLANK

Date Collected: 10/09/24 00:00
Date Received: 10/09/24 15:30

Lab Sample ID: 480-224181-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	727832	ZN	EET BUF	10/11/24 02:24

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Semi Annual

Job ID: 480-224181-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224181-1	B6R	Water	10/09/24 14:40	10/09/24 15:30
480-224181-2	B7R	Water	10/09/24 14:15	10/09/24 15:30
480-224181-3	B8R	Water	10/09/24 12:55	10/09/24 15:30
480-224181-4	MWF2	Water	10/09/24 10:57	10/09/24 15:30
480-224181-5	MWF3	Water	10/09/24 10:50	10/09/24 15:30
480-224181-7	P8R	Water	10/09/24 13:45	10/09/24 15:30
480-224181-8	DUP	Water	10/09/24 00:00	10/09/24 15:30
480-224181-9	TRIP BLANK	Water	10/09/24 00:00	10/09/24 15:30

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jason Gutkowski	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-199991-41233.1
Client Contact: Mr. Raymond Wagner	Phone: 315 436 3605	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:			Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:	Analysis Requested	Preservation Codes: A - HCL
City: Syracuse	TAT Requested (days): Standard Turn		
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No		
Phone:	PO #: 30125855 task 00002		
Email: raymond.wagner@arcadis.com	WO #: 30003542-00001		
Project Name: Iroquois Gas/Westwood Pharm.-Semi-Annual	Project #: 48011056		
Site: New York	SSOW#:		

480-224181 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX - 8260	Total	Special Instructions/Note:
			Preservation Code:				A		
B6R	10/9/24	1440	G	Water			X	3	
B7R		1415		Water			X	3	
B8R		1255		Water			X	3	
MWF2	~~1059~~	1057		Water			X	3	
MWF3 (MS/MSD)		1050		Water			X	9	
MWF4		1259		Water			X	3	
P8R		1345		Water			X	3	
DUP		—		Water			X	3	
				Water					
TRIP BLANK	10/9/24	—	G	Water			X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Dan Gubbs	Date/Time: 10/9/24 1325	Company: Arcadis	Received by: Matthew Cuddy	Date/Time: 10/09/24 1530	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.0 IR #SCICE

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-224181-1

Login Number: 224181
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Acadis US
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Dustin Kirschner
Arcadis U.S., Inc.
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Generated 11/12/2024 12:49:11 PM Revision 1

JOB DESCRIPTION

Iroquois Gas/Westwood Pharm.
Monthly Testing

JOB NUMBER

480-224722-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
11/12/2024 12:49:11 PM
Revision 1

Authorized for release by
John Schove, Project Manager II
John.Schove@et.eurofinsus.com
(716)504-9838

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 12
Lab Chronicle 13
Certification Summary 14
Method Summary 15
Sample Summary 16
Chain of Custody 17
Receipt Checklists 18

Definitions/Glossary

Client: Arcadis U.S., Inc.
Job ID: 480-224722-1
Project/Site: Iroquois Gas/Westwood Pharm.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-224722-1 Eurofins Buffalo

Job Narrative
480-224722-1

REVISION

The report being provided is a revision of the original report sent on 10/30/2024. The report (revision 1) is being revised due to include the individual isomers of Xylene..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/23/2024 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.4°C.

GC/MS VOA
Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: TRIP BLANK (480-224722-2).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MWF4 (480-224722-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: MWF4 (480-224722-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Arcadis U.S., Inc.
Job ID: 480-224722-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: MWF4 — Lab Sample ID: 480-224722-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	42		4.0	1.6	ug/L	4		8260C	Total/NA
Toluene	6.5		4.0	2.0	ug/L	4		8260C	Total/NA
Ethylbenzene - DL	950		40	30	ug/L	40		8260C	Total/NA
m-Xylene & p-Xylene - DL	790		80	26	ug/L	40		8260C	Total/NA
o-Xylene - DL	530		40	30	ug/L	40		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-224722-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MWF4
Date Collected: 10/23/24 09:03
Date Received: 10/23/24 11:00

Lab Sample ID: 480-224722-1
Matrix: Wastewater

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	42		4.0	1.6	ug/L			10/28/24 01:27	4
Toluene	6.5		4.0	2.0	ug/L			10/28/24 01:27	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/28/24 01:27*	*4*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*10/28/24 01:27*	*4*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*10/28/24 01:27*	*4*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/28/24 01:27*	*4*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	950		40	30	ug/L			10/28/24 13:51	40
m-Xylene & p-Xylene	790		80	26	ug/L			10/28/24 13:51	40
o-Xylene	530		40	30	ug/L			10/28/24 13:51	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/28/24 13:51*	*40*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*10/28/24 13:51*	*40*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*10/28/24 13:51*	*40*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*10/28/24 13:51*	*40*

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-224722-1

Client Sample ID: TRIP BLANK
Date Collected: 10/23/24 00:00
Date Received: 10/23/24 11:00

Lab Sample ID: 480-224722-2
Matrix: WQ

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			10/28/24 01:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/28/24 01:49	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/28/24 01:49	1
o-Xylene	ND		1.0	0.76	ug/L			10/28/24 01:49	1
Toluene	ND		1.0	0.51	ug/L			10/28/24 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/28/24 01:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*10/28/24 01:49*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*10/28/24 01:49*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*10/28/24 01:49*	*1*

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-224722-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Wastewater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-224722-1	MWF4	101	94	110	94
480-224722-1 - DL	MWF4	102	100	106	100

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
LCS 480-730016/6	Lab Control Sample	103	103	101	97
LCS 480-730086/6	Lab Control Sample	104	99	106	102
MB 480-730016/8	Method Blank	104	96	104	95
MB 480-730086/8	Method Blank	105	97	106	99

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: WQ — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-224722-2	TRIP BLANK	103	98	108	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-730016/8
Matrix: Water
Analysis Batch: 730016

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			10/28/24 01:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/28/24 01:05	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/28/24 01:05	1
o-Xylene	ND		1.0	0.76	ug/L			10/28/24 01:05	1
Toluene	ND		1.0	0.51	ug/L			10/28/24 01:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/28/24 01:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*10/28/24 01:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*10/28/24 01:05*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*10/28/24 01:05*	*1*

Lab Sample ID: LCS 480-730016/6
Matrix: Water
Analysis Batch: 730016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	26.9		ug/L		108	71 - 124
Ethylbenzene	25.0	28.6		ug/L		114	77 - 123
m-Xylene & p-Xylene	25.0	26.3		ug/L		105	76 - 122
o-Xylene	25.0	26.5		ug/L		106	76 - 122
Toluene	25.0	29.6		ug/L		118	80 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: MB 480-730086/8
Matrix: Water
Analysis Batch: 730086

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			10/28/24 13:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/28/24 13:08	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			10/28/24 13:08	1
o-Xylene	ND		1.0	0.76	ug/L			10/28/24 13:08	1
Toluene	ND		1.0	0.51	ug/L			10/28/24 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/28/24 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*10/28/24 13:08*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*10/28/24 13:08*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*10/28/24 13:08*	*1*

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-224722-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-730086/6
Matrix: Water
Analysis Batch: 730086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			25.0	26.7		ug/L		107	71 - 124		
Ethylbenzene			25.0	28.8		ug/L		115	77 - 123		
m-Xylene & p-Xylene			25.0	26.6		ug/L		106	76 - 122		
o-Xylene			25.0	27.1		ug/L		108	76 - 122		
Toluene			25.0	29.0		ug/L		116	80 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

QC Association Summary

Client: Arcadis U.S., Inc.
Job ID: 480-224722-1
Project/Site: Iroquois Gas/Westwood Pharm.

GC/MS VOA

Analysis Batch: 730016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224722-1	MWF4	Total/NA	Wastewater	8260C	
480-224722-2	TRIP BLANK	Total/NA	WQ	8260C	
MB 480-730016/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730016/6	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 730086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224722-1 - DL	MWF4	Total/NA	Wastewater	8260C	
MB 480-730086/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730086/6	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Arcadis U.S., Inc.
Job ID: 480-224722-1
Project/Site: Iroquois Gas/Westwood Pharm.

Client Sample ID: MWF4
Lab Sample ID: 480-224722-1
Date Collected: 10/23/24 09:03
Matrix: Wastewater
Date Received: 10/23/24 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	730016	AD	EET BUF	10/28/24 01:27
Total/NA	Analysis	8260C	DL	40	730086	AD	EET BUF	10/28/24 13:51

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-224722-2
Date Collected: 10/23/24 00:00
Matrix: WQ
Date Received: 10/23/24 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730016	AD	EET BUF	10/28/24 01:49

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Job ID: 480-224722-1
Project/Site: Iroquois Gas/Westwood Pharm.

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-25

Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Iroquois Gas/Westwood Pharm.

Job ID: 480-224722-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Arcadis U.S., Inc.
Job ID: 480-224722-1
Project/Site: Iroquois Gas/Westwood Pharm.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224722-1	MWF4	Wastewater	10/23/24 09:03	10/23/24 11:00
480-224722-2	TRIP BLANK	WQ	10/23/24 00:00	10/23/24 11:00

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing

Client Information

Client Contact: Mr. Raymond Wagner
Company: Arcadis U.S., Inc.
Address: One Lincoln Center 110 West Fayette St, Suite 300
City: Syracuse
State, Zip: NY, 13202
Phone:
Email: raymond.wagner@arcadis.com
Project Name: Iroquois Gas/Westwood Pharm.-GW
Site: New York

Sampler: Jason Guthowski
Phone: 315 436 3605
PWSID:
Due Date Requested:
TAT Requested (days): Standard Turn
Compliance Project: Δ Yes Δ No
PO #: 30185775
WO #: 30003542-00001
Project #: 48011056
SSOW#:

Lab PM: Schove, John R
E-Mail: John.Schove@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin:

COC No: 480-200354-36727.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes: A - HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - BTEX - 8260	Total Number of containers	Special Instructions/Note:
Preservation Code:							A		
MW-14	10/23/24	0903	G	Water			X	3	
Trip Blank	10/23/24	—	G	Water			X	2	

480-224722 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:
Date:
Time:
Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by: Dan Mutter	10/23/24/1058	Arcadis	Received by:	10-23-24 1100	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 6.4 IR#SC11

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 480-224722-1

Login Number: 224722
List Number: 1
Creator: Stapleton, Kaitlyn

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	6.4 IR#SC ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix C

Creek and Cap Inspections

Creek Inspections

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 4/23/2024

Weather: 52°F, partly sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 4/23/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 4/23/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 5/21/2024

Weather: 71°F, partly sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 5/21/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 5/21/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 6/4/2024

Weather: 79°F, partly cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 6/4/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 6/4/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 7/23/2024

Weather: 84°F, partly sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 7/23/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 7/23/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 8/21/2024

Weather: 68°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY

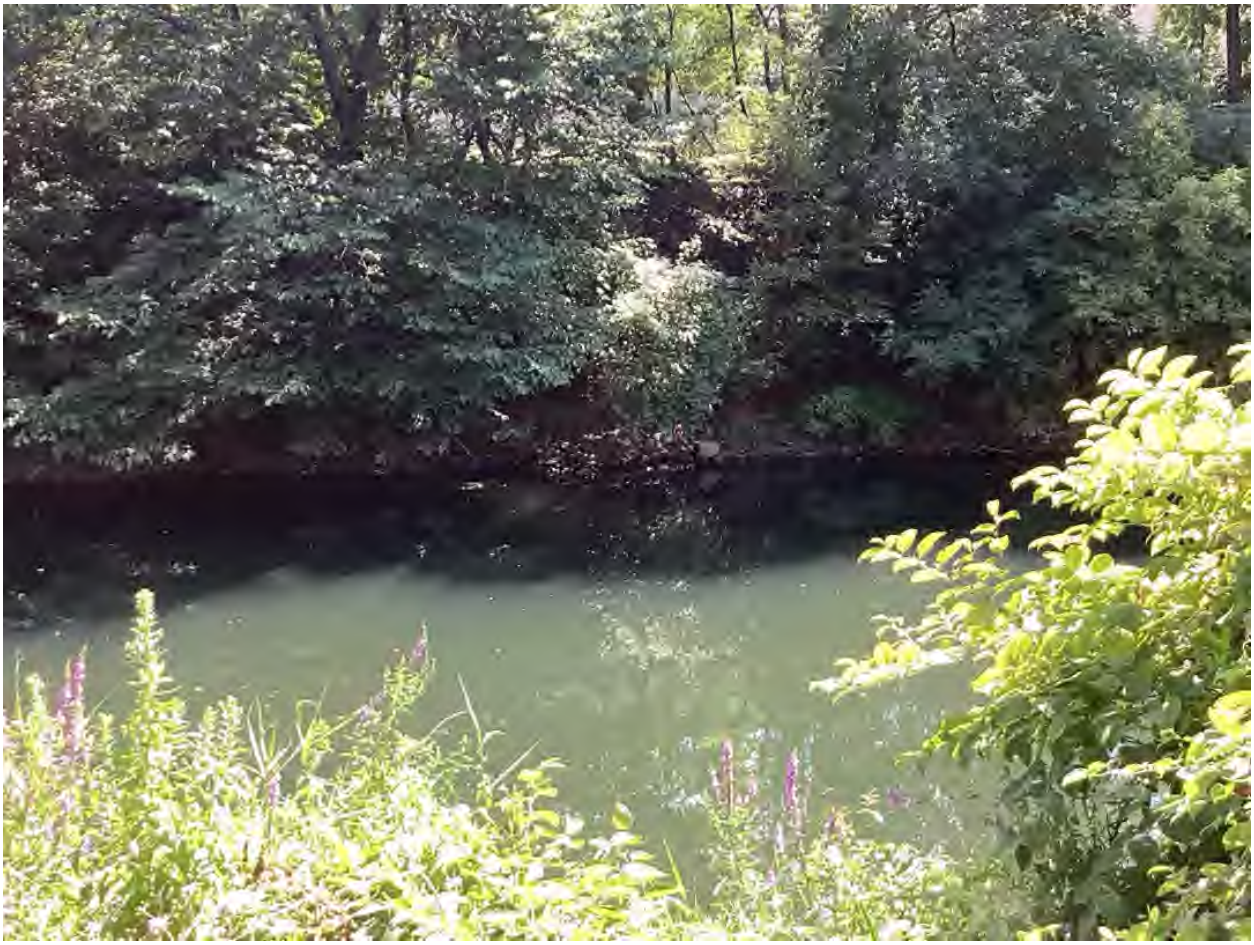


Photograph of water surface

Taken: 8/21/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 8/21/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 9/23/2024

Weather: 66°F, light rain

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 9/23/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 9/23/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 10/9/2024

Weather: 47°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 10/9/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 10/9/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 11/26/2024

Weather: 41°F, overcast

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 11/26/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 11/26/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 12/17/2024

Weather: 39°F, cloudy

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 12/17/2024

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 12/17/2024

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 1/29/2025

Weather: 36°F, overcast

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 01/29/2025

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 01/29/2025

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 2/25/2025

Weather: 40°F, light rain

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 02/25/2025

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 02/25/2025

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
120 Dart St. and 40 Bradley St., Buffalo, NY
NYSDEC Site No. 915141A
Monthly Creek Inspection Report

Inspection Date: 3/18/2025

Weather: 43°F, sunny

Personnel: Jason Gutkowski

Inspection Notes:

1) ARCADIS performed the inspection via binoculars from the bike path across the creek. There were no visual signs of seepage or sheen observed.

2) Photographs of the bank are attached.

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of water surface

Taken: 03/18/2025

PHOTOGRAPH LOG

Monthly Creek Inspection Report
Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site
NYSDEC Site No. 915141A
120 Dart Street and 40 Bradley Street, Buffalo, NY



Photograph of sheet pile wall

Taken: 03/18/2025

Cap Inspections

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

4/3/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

5/1/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

6/4/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

7/2/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

8/7/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

9/10/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

10/2/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

11/5/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

12/3/2024 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

1/2/2025 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

2/5/2025 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Iroquois Gas/Westwood Pharmaceuticals Terrestrial Site

120 Dart Street and 40 Bradley Street, City of Buffalo, Erie County, New York

3/5/2025 **Operator's Initials: __JG_____**

Inspection List

	Yes	No	Photos Taken?	Corrective Action Taken?
Cap in Good Overall Condition	X			
Cap has No Surface Disturbances	X			
Cap is Free of Animal Holes and Woody Vegetation	X			
Drainage Areas Free of Clogs or Obstructions	X			

Appendix D

Waste Bills of Lading

Site Address: SAME

SC PPW 5/1/2024

WORK ORDER NO. 12404720156

DOCUMENT NO. 1871334 **STRAIGHT BILL OF LADING**

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY			SHIPPER		
Clean Harbors El Dorado LLC			Westwood Pharmaceuticals		
FACILITY EPA ID # ARD069743192			SHIPPER EPA ID # NONEREQUIRED		
ADDRESS 309 American Circle			ADDRESS 120 Dart Street		
CITY El Dorado	STATE AR	ZIP 71730	CITY Buffalo	STATE NY	ZIP 14213

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
02X55	DM		A. NON-REGULATED SOLID	100	P
06X55	DM		B. NON-REGULATED SOLID	2,400	P
01X30 03X55	DM		C. NON-REGULATED LIQUID	1,600	P
01X55	DF		D. NON-REGULATED LIQUID	400	P
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 483-3718 GENERATOR: Westwood Pharmaceuticals
A.CH2809695 B.CH2809698 C.CH2809699 D. CH2809699

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT Matthew Buzbee on behalf of onsite agent for Bristol Myers Squibb	SIGN	DATE 08/28/24
TRANSPORTER 1	PRINT Jerry Cox	SIGN	DATE 08/29/24
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT Linda Good	SIGN Linda Good	DATE 9/9/24

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

CHI 107

Site Address: SAME

SC PPW 10/1/2024
WORK ORDER NO. 72405916580

DOCUMENT NO. 1871970 **STRAIGHT BILL OF LADING**

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY			SHIPPER		
Spring Grove Resource Recovery Inc.			Westwood Pharmaceuticals		
FACILITY EPA ID #			SHIPPER EPA ID #		
OHD000816629			NONEREQUIRED		
ADDRESS			ADDRESS		
4879 Spring Grove Avenue			120 Dart Street		
CITY	STATE	ZIP	CITY	STATE	ZIP
Cincinnati	OH	45232	Buffalo	NY	14213

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
2x55	DM		A NON DOT REGULATED MATERIAL	360	P
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS A.CH2822941 ~~7 55 D M~~ ~~2x85 DM~~ EMERGENCY PHONE #: (800) 483-3718 2x55 DF GENERATOR: Westwood Pharmaceuticals

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	Jason Gutkowski	~~Dan Gutk~~	10/29/24
TRANSPORTER 1	Richard Granados		10/29/24
TRANSPORTER 2			
RECEIVED BY	~~Christina Ramos~~ Amanda Parrott	~~AP~~ AP	~~1-13-25~~ 1-14-25

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

CHI 107