2023 ANNUAL REPORT OF OPERATIONS MAINTENANCE AND MONITORING FOR OPERABLE UNITS 1 & 2

Former Sinclair Refinery Site
Wellsville, New York

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1.0 OVERVIEW

1.1 INTRODUCTION

This document is the 2023 Annual Report of Operation, Maintenance, and Monitoring (OM&M) activities for Operable Unit 1 (OU-1) and Operable Unit 2 (OU-2) at the Former Sinclair Refinery Site (Site) located in Wellsville, New York. Current OM&M requirements and OM&M activities completed during calendar year 2023 are documented in this report.

This report and associated OM&M activities are required by *Operation and Maintenance Plan for Operable Units 1 and 2,* dated November 2012 and prepared by URS (Agency approved OM&M Plan).

This document has been prepared by On-Site Technical Services, Inc. (On-Site), of Wellsville, New York for the Atlantic Richfield Company (AR). Unless noted otherwise, OM&M activities were conducted by On-Site. Required laboratory analyses were completed by Eurofins Environmental Testing located in Lancaster, Pa.

1.2 PROJECT BACKGROUND

The Site is located on the west bank of the Genesee River approximately 10 miles north of the New York and Pennsylvania border. The irregularly shaped Site covers approximately 110 acres and is bounded to the west/southwest by South Brooklyn Avenue and to the east by the northerly flowing Genesee River (Figure 1).

The former refinery operated from 1901 through 1958 to process New York and Pennsylvania crude oil into heavy oils and grease for lubrication, light oils for fuel, gasoline, lighter fluid, naphtha, and paraffin. Since the refinery ceased operations in 1958, various entities have held title to portions of the former refinery. Current owners of the Site include:

- Allegany Trails, which owns a corridor along the east side of the Site and the west bank of the Genesee River. Allegany Trails operates a recreational trail (WAG Trail) in this corridor;
- Current Controls, which owns the northeastern portion of the Site and operates an electronics manufacturing facility;
- Educational Foundation of Alfred, which owns most of the Site including the Central Elevated Landfill Area (CELA). The Educational Foundation of Alfred is the landowner for the Wellsville campus of the Alfred State College – State University of New York of Technology; and
- National Fuel Gas, which has an office and industrial facility at the northwestern portion of the Site.

The Site was first listed on the USEPA National Priority List (NPL) in 1983 and subsequently divided into two Operable Units for purposes of investigation and remediation:

- OU-1, which encompasses approximately 20 acres and contains an approximate 10-acre landfill area adjacent to the southern boundary of the former refinery that is referred to as the CELA; and

- OU-2, which consists of an approximate 90-acre former refinery area that covers the remainder of the Site. This Operable Unit manages the collection and treatment of impacted Site-wide groundwater.

The OU-1 remedial action was conducted under a combination of: 1) a Consent Decree, effective May 19, 1989, between AR and the United States Environmental Protection Agency (USEPA) and 2) an Administrative Order of Consent (AOC), between AR and the USEPA dated May 1, 1992. The OU-1 remediation included: 1) protection of the CELA, and the smaller South Landfill Area (SLA) from river inundation and erosion; and 2) provided that AR remediate the CELA and excavate certain surface soils in sections of OU-2. This remedial action included; 1) Genesee River dike construction and bank protection adjacent to OU-1; 2) consolidation of the SLA into the CELA; 3) excavation of certain refinery area surface soils; and 4) construction of a soil-bentonite slurry wall and geosynthetic cap at the CELA. The OU-1 remediation was completed in 1993.

The Remedial Investigation/Feasibility Study (RI/FS) and Remedial Design Investigation (RDI) efforts at OU-2 were conducted between 1985 and 1994. The USEPA issued the OU-2 Record of Decision (ROD) on September 30, 1991 and Unilateral Administrative Order (UAO) on September 8, 1992. The ROD and UAO specified cleanup levels for groundwater and surface water for the OU-2 area of the Site. The shallow water bearing zone at the Site is designated by New York State as a class GA aquifer, and the Genesee River adjacent to the Site is designated a Class A surface water. These classifications characterize the water bearing zone and river as potential sources of potable water. Chemical-specific applicable or relevant and appropriate requirements (ARARs) for groundwater and surface water at the Site were defined as federal maximum contaminant levels (MCLs) and state ambient water quality standards (AWQSs).

The OU-2 remedial actions have consisted of the following:

- Remediation of surface soils completed in 1993;
- Remediation of the Northern Oil Water Separator completed in 1993;
- Demolition of the Powerhouse completed in 1993; and
- Implementation of a phased approach to groundwater remediation.

The phased groundwater remediation approach was approved in 1994. Phase I remediation of groundwater involved the construction, operation, and monitoring of a groundwater extraction and water treatment system, and three air sparge/soil vapor extraction (AS/SVE) systems. Operation of these remedial systems was initiated in 1995 and enhanced with an expanded AS/SVE system in December 1997. Phase I groundwater remediation is complete as documented in *Phase I Completion Report, Former Sinclair Refinery Site (OU-2) Wellsville, New York,* dated August 2001. The Phase I AS/SVE systems were deactivated in July 2003 following USEPA approval of the Phase II Remedial Design Investigation Work Plan. The Phase I groundwater extraction and water treatment system continued to operate until Phase II was initiated. The Phase I System was idled on November 3, 2008 in preparation for Phase II system startup. The Phase II system includes an approximately 3,200-foot-long subsurface water collection trench and an engineered wetland treatment system. The Phase II remedial construction work was primarily completed in December 2011 with final planting and site restoration conducted in spring 2012.

1.3 PROJECT DESCRIPTION

The OM&M Plan distributes the Phase II remedial components into four separate groupings: 1) CELA, 2) Groundwater Recovery System, 3) Wetland Treatment System, and 4) River Channel and Swale. Each component is described below.

1.3.1 CELA

The CELA (OU-1) is an approximately 10-acre consolidation and grading of materials in a historic landfill at the southern portion of the Site. A soil-bentonite slurry wall was constructed around the perimeter of the CELA and keyed into an underlying low permeability clay layer. A RCRA cap was constructed over the consolidated materials placed in the 10-acre CELA. There are 11 groundwater monitoring wells (MWR-01 through MWR-11) surrounding the CELA and 6 piezometers (P-01 through P-06) within the CELA. In 2010 construction of a new cell on the northern portion of the CELA was used for disposal of materials generated during the OU-2 Phase II remedial construction activities. This area, known as the CELA Reuse Area, covers approximately 3 acres of the CELA and is located on top of the existing RCRA Cap. In 2011 and 2012 a recreational trail was established on top of the CELA that connects with the existing WAG trail. CELA features are illustrated in Figure 2.

1.3.2 Groundwater Recovery System

The OU-2 Phase II groundwater recovery and treatment system consists of a groundwater recovery trench and wetland treatment system (Figure 3). The approximately 3,200 foot long, pea gravel filled recovery trench is located along the downgradient side of the Site. The recovery trench includes eight manholes equipped with pumps to transfer water to a nine-pond wetland treatment system. The manholes are designated as MH-A, northernmost through MH-H, southernmost. Two-inch conveyance lines from the manholes are connected to three six-inch conveyance lines flowing to the sedimentation pond. Flow from manholes MH-A, MH-C, and MH-E are combined into one conveyance line, flow from manholes MH-B, MH-D, and MH-F are combined into another line, and flow from manholes MH-G and MH-H combine into the third conveyance line. The manhole pumps, which are controlled by float switches, transfer water from the recovery trench through conveyance lines to the wetland treatment system. Each manhole, with exception of MH-H, is equipped with a flow meter and totalizer to monitor flow. Manhole MH-H is not currently pumped as part of system operations.

1.3.3 Wetland Treatment System

The treatment system ponds include one sedimentation pond, three Surface Flow Wetlands (SFWs) and five Vertical Flow Wetlands (VFWs). Water from the recovery trench enters the south end of the sedimentation pond through a cascade aerator, which consists of a splitter structure, four manholes and four corrugated metal pipes. A biofilter, which consists of a vacuum blower connected to the cascade splitter and a natural mulch bed filter, operates to reduce odors generated by the cascade aerator. The cascade aerator aids with the precipitation of metal oxides (primarily iron and manganese) in the sedimentation pond. Water gravity flows from the sedimentation pond through a submerged outlet in the northwest corner of the pond. From the sedimentation pond, water flows through a hydraulic control splitter structure, which separates the flow to the three SFWs. The three SFWs operate in parallel and are designed to promote biodegradation of organic compounds and provide additional metals removal. Each SFW consists of three open water areas separated by two elevated bench areas, which are vegetated with cattails. Each open water section is equipped with aeration lines connected to a blower. The aeration system is utilized to enhance biodegradation, particularly during winter

months. Water flows into the west end of each SFW, passing through each open water and bench section, and out the east end through a weir gate structure and continues through underground piping to the VFWs. The five VFWs are designed to raise the pH of the treated water prior to discharge. The pH adjustment is accomplished by the water contacting limestone beds in the VFWs. Each VFW fills via surface piping to a set point and then flushes through the limestone bed to the outlet structure and piping to the discharge point at the head of the main drainage swale. Discharge from this location is subject to NYSDEC SPDES limitations.

The main drainage swale includes a water level control berm adjacent to the Genesee River upper drop structure. The berm impounds water to a designated level to create a hydraulic barrier to help control groundwater seepage from the Site into the south end of the main drainage swale.

The wetland treatment system also includes four concrete walled drying beds utilized to dewater and dry metal precipitate material which is periodically removed from the sedimentation pond. The drying beds are equipped with an underdrain system which drains and transfers water back to the wetland treatment system.

Operation of this system commenced in December 2008. Additional components of the Phase II remedy were completed by the end of the 2011 construction season. Final site restoration activities were completed in spring 2012. As part of OU-2 Phase II construction, a public access walking trail was created adjacent to the Genesee River and on the CELA.

1.3.4 River Channel and Swale

In the early 1990's a dike was constructed on the west bank of the Genesee River along the southern portion of the Site adjacent to the CELA, and riverbank stabilization was completed along the corresponding east riverbank. The purpose of the dike on the west riverbank, which includes a rip-rap revetment, is to protect the CELA and southern portion of the Site from erosion and inundation of a 100-year flood. The purpose of the rip-rap revetment stabilization of the east riverbank is to protect the riverbank from erosion during bank full conditions.

In 2010 as part of Phase II remedial activities, a portion of the Genesee River channel sediments were removed downstream of the lower drop structure. The purpose of this work was to remove potentially impacted channel sediments associated with observed river hydrocarbon seeps. The material removed was placed in the CELA reuse area and the river channel was restored including placement of rip-rap revetment on the west riverbank.

Removal of sediment from the Main Drainage Swale (Swale), located along the eastern edge of the site adjacent to the Genesee River, was conducted in 2009. The potentially impacted sediment was excavated and placed in the CELA reuse area and the Swale was backfilled with clean borrow material and vegetated. Additionally, in 2010, a water level control berm (WLCB) was constructed in the southern portion of the Swale. The WLCB was designed to create a hydraulic barrier to provide additional control of groundwater seepage from the Site into the Swale.

1.4 REPORT FORMAT

The remainder of this report is organized as follows:

- Section 2 provides the currently approved CELA OM&M requirements;
- Section 3 details CELA OM&M activities completed during 2023;
- Section 4 provides Groundwater Recovery System OM&M requirements;

- Section 5 explains Groundwater Recovery System OM&M activities completed during 2023;
- Section 6 presents the Wetland Treatment System OM&M requirements;
- Section 7 details Wetland Treatment System OM&M activities completed during 2023;
- Section 8 illustrates the River Channel and Swale OM&M requirements;
- Section 9 details River Channel and Swale OM&M activities completed during 2023; and
- Section 10 provides conclusions and recommendations.

2.0 CELA OM&M REQUIREMENTS

The purpose of this section is to specify the currently approved CELA OM&M requirements. If changes to the OM&M requirements are approved by USEPA, the updated requirements are captured in this section.

2.1 CELA MONITORING REQUIREMENTS

Table 1 of the 2012 OM&M Plan requires that specific routine inspections and monitoring be conducted as described below.

2.1.1 Quarterly Requirements

Piezometers and Monitoring Wells - Visually inspect above ground portion of piezometers and monitoring wells for: sediment or vegetative growth over the protective cover; erosion around the surface casing; missing or damaged lock or cover cap; water collecting between casing and riser; and evidence of vandalism or damage.

Corrective actions include: removal of sediment or vegetation; fill eroded areas with topsoil and seed; replace or repair lock or cover; remove water; and repair damage.

Surface Water Drainage System - Visually inspect perimeter ditches, culverts under trail and drainage culvert through flood protection dike at north end of CELA for: obstructions that could impede flow; damaged or eroded areas.

Corrective actions include: remove obstructions; repair damage; and fill eroded areas with topsoil and seed.

Security Fence - Visually inspect fence on west side of CELA for: proper clearance between fence gates and the ground; proper function of gate lock and hinges; holes in fence fabric; loose or missing connections of fence fabric to posts; loose fence posts; cracks in post foundations; woody vegetation growing onto or through the fence; and general signs of deterioration.

Corrective actions include: Adjust gates to keep from dragging; repair, lubricate, replace locks or hinges; repair holes in fence fabric; reattach fabric to posts; repair or replace posts; repair or replace fence post foundations; remove vegetation; and assess need to repair or replace deteriorated sections of fence.

2.1.2 Semiannual Requirements

Gas Vents - Visually inspect for erosion around gas vents and evidence of vandalism or damage. Measure VOC concentrations in breathing zone downwind of gas vents. Per USEPA approval letter dated September 19, 2018, gas vent monitoring was reduced from quarterly to semiannual, and approval was given to discontinue monitoring for vinyl chloride via colorimetric tubes based on historic air monitoring results indicating no presence of vinyl chloride.

Corrective actions include: fill eroded areas around gas vents with topsoil and seed; and repair damage. If concentration of benzene is measured in breathing zone exceeds one part per million (ppm), establish barricade around gas vent to prevent access.

2.1.3 Annual Requirements

Vegetative Cover - Visually inspect CELA grade for erosion, sediment buildup, local subsidence, loss of grade, water ponding, slope instability and sloughing. Visually inspect vegetation on CELA for stressed vegetation, trees, and undesirable vegetation. Visually inspect CELA surface for burrows, evidence of fires, vandalism, or litter.

Trail System - Visually inspect trails and signage for erosion of trail surface and damaged or vandalized signs. Fill eroded areas with NYSDOT 401 aggregate and repair damage and vandalism.

Groundwater Elevations - Measure static groundwater levels from 11 groundwater wells (MWR-1 through MWR-11) near the CELA.

Storm Water - Collect surface water runoff sample once, in 2013.

2.1.4 Biennial Requirements

Groundwater Quality - Collect samples from 11 groundwater monitoring wells (MWR-1 through MWR-11) near the CELA. Analyze samples for arsenic, beryllium, chromium, copper, lead, and Target Compound List (TCL) Volatile Organic Compounds (VOC's). Sampling of MWR-1 through MWR-11 is currently being conducted in odd numbered years.

LNAPL Monitoring and Removal - Assess monitoring wells MWR-02 and MWR-03 for presence/absence of LNAPL. Remove accumulated LNAPL prior to collection of groundwater samples and dispose properly. LNAPL assessment is currently being conducted in odd numbered years.

3.0 2023 CELA OM&M ACTIVITIES

The OM&M Plan requires that specific routine inspections and monitoring be conducted at the CELA. The inspections are conducted using checklists included in Appendix A. The completed 2023 CELA OM&M activities are described in Sections 3.1 through 3.3 below.

3.1 CELA INSPECTIONS

3.1.1 Quarterly Inspections

Visual inspections of the CELA were completed on February 20, April 17, July 6, and November 6, 2023. The inspections consisted of a complete walk-through visual inspection and completion of the Inspection Checklists (Appendix A). A summary of the inspections is provided below.

- Gas vent system is in good condition. No notable changes from previous conditions were observed during the 2023 inspections.
- The six open well piezometers were inspected and are in satisfactory condition.
- The 11 groundwater observation wells were inspected and are in satisfactory condition.
- The surface water drainage system is functioning as designed.
- The security fence is in overall good condition with no noted significant deficiencies.

- Quarterly CELA inspections resulted with satisfactory conditions following completion of maintenance described in Section 3.3.

3.1.2 Annual Inspections

Upon review of applicable inspections and documentation, the 2023 annual inspection of the CELA vegetative cover and trail system was completed on October 23, 2023.

- The Annual CELA vegetated cover inspection resulted with satisfactory conditions following completion of the maintenance listed in Section 3.3. Vegetated cover inspection was completed following completion of CELA brush hogging in October 2023.
- Visual inspection of trail surface and trail system signage showed trail and signs to be in generally satisfactory condition. It was noted there are small areas of erosion on the sloped areas of the walking trails and three apparently inactive woodchuck holes were located on the CELA cap, which were corrected in 2023.

3.2 CELA MONITORING ACTIVITIES

3.2.1 Gas Vent Monitoring

Gas vents V-1 and V-13 were evaluated during the second and third quarters of 2023 utilizing a Mini Rae Photo Ionization Detector (PID). This monitoring was conducted on May 20 and July 6, 2023 (see Figure 2 for vent locations). Prior to use, the PID was calibrated according to manufacturer specification with 100 ppm Isobutylene gas. PID readings were measured directly at the gas vent, and approximately three feet upwind and three feet downwind of each vent. All PID readings at three feet downwind were non-detect, therefore Dräger Benzene colorimetric detector tube readings were not required. 2023 PID peak readings at the gas vents ranged from 1.3 ppm to 39.8 ppm. Gas vent monitoring results from 2023 are presented in the table below and the field monitoring logs are included in Appendix A.

Date	Gas Vent Location	PID 3 ft. Upwind Reading (ppm)	PID 3 ft. Downwind Reading (ppm)	PID Direct Vent Peak Reading (ppm)	Benzene Dräger Tube 3 ft. Downwind Reading (ppm)	Ambient Temperature °F
5/20/2023	V-1	0	0	1.3	NR	72
5/23/2023	V-13	0	0	8.2	NR	72
7/6/2023	V-1	0	0	19.3	NR	84
7/6/2023	V-13	0	0	39.8	NR	84

3.2.2 Groundwater Quality

Biennial groundwater sampling at the 11 observations wells (MWR-01 through MWR-11) was conducted between June 8 and June 12, 2023 (see Figure 2 for well locations). Field parameters including pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation

reduction potential were measured throughout purge and at time of sampling (groundwater sampling field forms are included in Appendix B). Laboratory analysis of groundwater samples was performed by Eurofins Lancaster Laboratories Environment Testing, LLC in Lancaster, Pa. for select metals (method 6010C) and Target Compound List VOCs (method 8260C). Table 1 presents the 2023 analytical results along with historical results since 2015 for comparison. The complete 2023 laboratory analytical report is included in Appendix C. One field duplicate sample (DUP2-0623) was collected from observation well MWR-08. Table 6 presents analytical results from the duplicate sample comparing favorably with the original sample results, indicating good sampling and analysis precision.

Since the initial sampling in 1993, concentrations of several metals, VOCs and methylene chloride have periodically been detected above the USEPA MCLs. 2023 analytical results from the 11 observation wells sampled, indicate various metal detections. VOCs were not detected in 2023 with exception of concentrations at MWR-02 listed in the table below.

Parameter	Location	Result (mg/L)
Cyclohexane	MWR-02	0.012
Isopropylbenzene	MWR-02	0.011
Methylcyclohexane	MWR-02	0.026

The 2023 analytical results at the 11 observation wells were compared to USEPA MCLs showing arsenic and chromium as the only parameters above MCLs during 2023. The table below lists constituents above MCLs in 2023, which are consistent with historical monitoring results.

Parameter	Location	Result (mg/L)	USEPA MCL (mg/L)
Arsenic	MWR-10	0.073	0.01
Chromium	MWR-11	1.4	0.1

3.2.3 Groundwater Elevations

Static groundwater levels were measured with an oil/water interface probe in the 11 observation wells during June 2023 sampling event. The static groundwater level data were subtracted from the surveyed elevation of the top of the casing to calculate the groundwater elevations, as shown on Table 2 (CELA Liquid Level Monitoring).

3.2.4 LNAPL Monitoring and Removal

Since 1993, Light Non-Aqueous Phase Liquid (LNAPL) has been periodically observed in observation wells MWR-02 and MWR-03. The maximum apparent LNAPL thickness of 1.02 foot was measured in MWR-02 during May 2007 and again in June 2011. A graph of LNAPL thickness over time for each of the two wells is presented as Figure 4. As shown on Table 2, LNAPL was detected at MWR-02 on June 12, 2023 prior to sampling the well with an apparent thickness of 0.02 feet and was not observed at MWR-03. Generally, it appears that LNAPL thicknesses have varied over time, with observation well MWR-02 consistently containing measurable LNAPL. Historically, LNAPL is removed from wells using absorbent socks prior to each groundwater sampling event.

3.3 CELA MAINTENANCE ACTIVITIES

Maintenance activities completed at the CELA during 2023 included the following.

- CELA walking trail surface was repaired on October 23, 2023. Crushed Limestone was placed and compacted to fill areas of erosion caused by runoff at sloped area in northern section of trail.
- CELA trail edges, well locations and gas vent locations were mowed May 15, June 5, June 29, and August 21, 2023.
- Annual CELA vegetative cover mowing completed between October 5 and 19, 2023.

4.0 GROUNDWATER RECOVERY SYSTEM OM&M REQUIREMENTS

The purpose of this section is to specify the currently approved groundwater recovery system operations and maintenance requirements. If changes to the OM&M requirements are approved by USEPA, the updated requirements are captured in this section.

4.1 MONITORING AND MAINTENANCE REQUIREMENTS

The OM&M Plan requires that specific routine inspections and monitoring be conducted. The inspections are conducted using checklists included in Appendix A. The OM&M requirements are described below.

4.1.1 Continuous Monitoring

Groundwater Elevations: Monitor groundwater elevations at 17 locations (MH-A through MH-H and piezometers TPZ-01 through TPZ-09) in the Groundwater Collection Trench (GWCT) using electronic recorders (Level TROLL data logger or equivalent). Data loggers are set to collect groundwater elevations at 30-minute intervals (17,520 points per year), which will provide enough points to conduct forensic analysis on pumping history or other diagnostics.

4.1.2 Weekly Monitoring

Manholes MH-A through MH-H: Visually inspect manhole covers for vegetation, vandalism, and damage.

Control Panel Cabinets: Visually inspect cabinet housing control panels for vegetation that obstructs operation of doors, vandalism, and damage.

Pumping Systems: Record instantaneous flow measurements and totalized flow measurements for each manhole and confirm manhole pump operation.

4.1.3 Monthly Monitoring

Groundwater Elevations: Download data loggers and manually measure groundwater elevations at 17 locations (MH-A through MH-H and piezometers TPZ-01 through TPZ-09) in groundwater recovery trench. The OM&M Plan contemplated comparing river stage data from the Genesee River USGS gauging station 04221000, which is approximately 1.8 miles downstream of Site, to groundwater elevations in the recovery trench. However, to date this comparison has not been feasible and assessment of groundwater capture has been made utilizing direct water level monitoring conducted at the site. Please refer to Section 5.2.2 for additional details.

Access paths and turnouts at manholes: Visually inspect for erosion of surface access paths and turnout aggregate surface. Fill eroded areas with NYSDOT 401 aggregate and repair damage and vandalism.

4.1.4 Quarterly Monitoring

Manholes MH-A through MH-H: Confirm operation, including locks, of doors into manholes and visually inspect interior of manholes. Follow confined space entry procedures if personnel need to enter manholes for inspections or repairs.

Control Panel Cabinets: Confirm operation, including locks, of doors on cabinets.

Piezometers TPZ-01 through TPZ-09: Visually inspect piezometers for sediment or vegetative growth over the protective cover, erosion around surface casing, missing or damaged lock or cover cap, water collecting between casing and riser, and evidence of vandalism or damage.

4.1.5 Semi-Annual Monitoring

Groundwater Elevations: Monitor groundwater levels at specified synoptic wells (see Appendix D which contains the PBGM Report).

Manholes MH-A through MH-H: Perform data logger maintenance (e.g., calibrate recorder instruments, change out desiccant caps, clean probes).

Piezometers TPZ-01 through TPZ-09: Perform data logger maintenance (e.g., calibrate recorder instruments, change out desiccant caps, clean probes).

4.1.6 Annual Requirements

Pumping Systems: Maintain and calibrate flow meters

Conveyance Lines: Exercise valves on lines that connect manholes to conveyance lines and valves for by-pass lines.

Cleanout Boxes: Inspect exterior and interior of cleanout boxes for vegetation covering the structure, evidence of damage or vandalism and leaking cleanouts on conveyance lines.

Groundwater Quality: Collect groundwater samples from four wells (MW-78, OW-4, MW-71, and MW-55R) for select VOCs (benzene, chloroethane, 1,1-dichloroethane, ethylbenzene, toluene, vinyl chloride, and xylene) and select SVOCs (acenaphthene, aniline, fluorene, 2-methylnapthalene, naphthalene, nitrobenzene, and phenanthrene).

Groundwater Quality: Collect samples from Manholes A through H. Samples are to be analyzed for volatile organic compounds, semi-volatile organic compounds, total arsenic, iron, magnesium, and total suspended solids.

4.1.7 Monitoring Required Once Every Five Years

Conveyance lines: A camera survey of the interior of the conveyance lines to a distance of 100 feet from the cleanout boxes, checking for accumulation of scale or blockage, is required once every five years. The first of these required camera surveys was completed in 2020, therefore the next will be required in 2025.

5.0 2023 GROUNDWATER RECOVERY SYSTEM OM&M ACTIVITIES

The groundwater recovery system operated consistently throughout 2023 with the following exceptions:

- annual flow cell zero calibration on September 15, 2023 (pumps idled temporarily during calibration).
- power outages and brief shutdowns for other maintenance.
- planned annual shutdown to remove accumulated metal precipitates from the Sedimentation Pond which idled the extraction pumps from June 9 through 21, 2023 as detailed in Section 7.2.

The table below provides manhole run times for 2023.

January 1 through December 31, 2023 Groundwater Recovery Pump Run Time

Manhole ID	Run Days	Off Days	Run Time %
MH-A	352.69	12.31	96.63%
MH-B	346.52	18.48	94.94%
MH-C	352.69	12.31	96.63%
MH-D	352.69	12.31	96.63%
MH-E	0.00	365.00	0.00%
MH-F	352.69	12.31	96.63%
MH-G	347.10	17.90	95.10%
MH-H	0.20	364.80	0.05%
2023 Average Run Time (not including MH-H)			**82.36%**

Notes:

1) GWCT system (Manholes MH-A through MH-G) shutdown for approx. 12 days for Sed Pond cleaning June 9 thru June 21, 2023.

2) MH-B shut down for approx 2 hrs. May 16, 2023 and August 24, 2023 for pump replacement.

3) GWCT system (Manholes MH-A thru MH-G) shutdown due to Village power outage July 11 thru July 12, 2023.

4) MH-B and MH-G shutdown December 12 thru December 18, 2023 for system gpm decrease due to flow restriction at vertical flow splitter structure.

5) MH-E has been idle due to iron fouling since November 2021.

6) MH-H idle per PBGM Plan, except for annual sampling.

5.1 RECOVERY SYSTEM INSPECTIONS AND MAINTENANCE

The required inspections were completed during 2023. Completed inspection forms are included in Appendix A. Inspections determined that system components are in generally satisfactory condition. Non-routine maintenance / repair activities are summarized below:

- May 16, 2023: replaced MH-B pump.
- May 16, 2023: replaced MH-F pump hose.
- Aug. 24, 2023: replaced MH-B pump due to performance issues.

5.2 MONITORING

5.2.1 Pumping Systems

System flow is monitored and recorded by use of individual flow meters at manholes MH-A through MH-G, with exception of MH-E which is currently idle due to iron fouling. The flow is tracked on a weekly basis. The 2023 weekly flow tracking records are included in Appendix E. Weekly average flow rates (total flow from all manholes) ranged from a low of approximately 87 gallons per minute (gpm) during the week of December 11, 2023 to a high of approximately 161 gpm during the week of April 3, 2023. Note that the annual groundwater extraction system shut down for Sedimentation Pond cleaning is excluded from the low flow calculation. The 2023 monthly pumping totals are provided in Section 7.3.1.

5.2.2 Groundwater Elevations

The elevations of 17 locations (MH-A through MH-H and piezometers TPZ-01 through TPZ-09) were monitored continuously in 2023 using electronic data recorders. Additionally, manual depth to water measurements of the same 17 locations were conducted monthly and synoptic groundwater level monitoring events along the eastern portion of the Site were conducted on April 14 and October 19, 2023. Synoptic data are compiled, interpreted, and reported in the *PERFORMANCE-BASED GROUNDWATER MONITORING REPORT: HYDROLOGIC SUMMARY (January 2023 – December 2023) Former Sinclair Refinery Site Wellsville, New York,* dated March 2023, prepared by Parsons. For additional details please refer to this report included as Appendix D.

Monitoring Well Repairs and Decommissioning:

In addition to the PBGM monitoring locations listed above, the Site has a network of monitoring wells, former pumping wells, and piezometers (collectively referred to herein as wells) which have been utilized historically for various needs including site investigation, remediation, and Operation, Maintenance and Monitoring (OM&M) activities. Numerous wells have been damaged over time during activities occurring on the project site, particularly by ongoing site development (filling and grading) by Stakeholders. The primary Stakeholder on the Site (SUNY Alfred State College) requested the removal of wells documented here, as these are in two areas of the Site undergoing development. These wells were determined to be unnecessary to Site operations, therefore were approved for decommissioning. Certain wells which were damaged are needed for ongoing monitoring efforts, therefore were repaired and protective

measures were installed as they are in active traffic areas. The following summarizes repairs and upgrades to monitoring wells which were completed in support of ongoing needs of the PBGM program, and decommissioning of non-serviceable and/or unnecessary monitoring wells. This work was completed between August 14 – 16, 2023 by NYS Certified Drilling Contractor Parratt-Wolff, Inc. of East Syracuse, New York with oversight conducted by On-Site Technical Services, Inc. (On-Site) of Wellsville, New York.

Well Repair Summary:

- MW-97: stickup well located along active roadway had been struck by heavy equipment and was broken off at approximately ground level. Two protective bollards were also destroyed at this time. The well was repaired by hand digging around the well, cutting the broken 2-in. PVC well flush and mechanically coupling a new 2-in. PVC riser. A new steel outer protective casing was installed and concrete surface pad was poured. Two (2) new protective bollards were installed, set in concrete and painted orange for visibility. NOTE: All new bollards installed during this effort consist of 3-in. steel pipe filled with sand/capped with cement set to approximately 4-ft. below grade, concrete filled annulus and free form concrete pad. Well repair completed on August 14, 2023.
- MW-101: damaged flush mount well was removed by hand excavation and area prepped for installation of new flush mount manhole with locking lid and 24-in. square concrete surface pad. Upon completion a large concrete monument/pylon provided by SUNY was placed as a deterrent to traffic as this is in an active parking area. Repairs completed on August 15, 2023.
- T-09: damaged stickup well located in active parking area had been struck and bent/pinched at approximately ground level. Monitoring Well was repaired by mechanically coupling new 2-in. PVC riser to existing well riser, installing new steel outer protective casing, and pouring concrete surface pad. Three (3) new protective bollards were installed, set in concrete and painted orange for visibility. Work completed on August 15, 2023.
- T-10: although this stickup well was not damaged, due to its location along an active roadway three (3) new bollards were added for protection. As with the others, the bollards were set in concrete and painted orange for visibility. Work completed on August 15, 2023.

Well Decommissioning Summary:

Monitoring wells in areas of the Site requested by Stakeholders deemed unnecessary to operations were decommissioned by removing concrete pads, outer protective casings, and well riser pipes; most of the wells were in a state of disrepair therefore in many cases some of these components were damaged and/or missing. Well components were physically removed by pulling/lifting with either drill rig or excavator. Upon removal of monitoring well, Portland cement/bentonite grout was used to tremie grout borehole to extent practical and area was restored to rough grade.

- MW-35 and MW-86 were decommissioned to accommodate SUNY building expansion project in northern end of project site on August 14, 2023.
- T-15, MW-77, MW-53, MW-89, MW-98, MW-08 were removed on August 15, 2023, and PW-3, PZ-06, PZ-15 were removed on August 16, 2023. These wells were decommissioned to accommodate SUNY land development.

Some wells slated for decommissioning could not be located despite their locations being previously marked by NYS Licensed Land Surveyor and soft dig exploration. This is due to damage/removal by heavy equipment and vehicles striking and physically removing stickups, pads and well casings. Also, approximately 1 – 2 ft. of imported fill has been placed and graded by SUNY over a portion of the site. Wells planned for decommissioning which could not be located are: MW-29, MW-54, MW-76, MW-81, MW-82, T-14 and PZ-05.

Original boring logs were updated with field decommissioning notes, along with a location map with wells repaired, decommissioned, not found, and improved with bollards notated. Elevations of repaired wells were re-surveyed by James Ball Land Surveyors following completion.

5.2.3 Groundwater Quality

In accordance with the OM&M Plan, the required 2023 groundwater quality monitoring associated with the groundwater recovery system included: 1) annual sampling and analysis of recovery trench manholes; and 2) annual sampling and analysis of four monitoring wells (MW-55R, MW-71, MW-78 and OW-04) located downgradient of the recovery trench (Figure 5).

Sampling of each of the manholes (MH-A through MH-H, with exception of MH-E, which has been inoperative since Nov. 2021) was conducted per the annual frequency requirement to determine influent concentrations from each manhole. These samples were collected on June 6, 2023. Each sample was collected utilizing a new disposable bailer. Since manhole MH-H is not pumped as part of normal operations, the pump was activated for several hours prior to sampling. 2019 through 2023 manhole analytical results are presented in Table 3. The 2023 manhole analytical reports are included in Appendix C.

The following general observations can be concluded from the 2023 annual manhole analytical results:

- Iron, BETX compounds (benzene, ethyl benzene, toluene, and xylenes), aniline, and nitrobenzene are the primary constituents of interest.
- 2023 iron concentrations range between a minimum of 20 mg/L at MH-H to a maximum of 83 mg/L at MH-C. Iron concentrations tend to be higher at the northern portion of the recovery trench (MH-A, MH-B, and MH-C) as compared to the remainder or the trench (MH-D, MH-E, MH-F, MH-G, and MH-H).
- BETX compounds ranged from non-detect to maximum concentrations as follows:
    - 0.011 mg/L Benzene at MH-G
    - 0.0062 mg/L Ethyl benzene at MH-G
    - 0.0099 mg/L Toluene at MH-C
    - 0.017 mg/L Xylenes (total) at MH-C.
- Aniline and nitrobenzene are typically detected at manholes MH-B, MH-C, MH-D, and MH-E. During 2023 aniline concentrations ranged from non-detect to 3.8 mg/L at MH-C, and nitrobenzene concentrations ranged from non-detect to 2.3 mg/L at MH-B.

- The 2015 to 2023 annual average concentrations for each of the above referenced compounds are presented in Table 4.

The annual sampling of monitoring wells MW-55R, MW-71, MW-78 and OW-04 was completed between June 6 and 7, 2023. Field parameters including pH, conductivity, dissolved oxygen, temperature, and oxidation reduction potential were measured throughout purge and at the time of sampling using a flow through cell and a YSI Pro Plus water quality meter. Turbidity was measured using a Hach 2100P/2100Q turbidity meter from grab samples throughout purging and at the time of sampling. Field parameter data are provided on sampling forms included in Appendix B. Sampling was conducted following low-flow purging and sampling techniques using a non-dedicated bladder pump and tubing. Laboratory analysis of groundwater samples was conducted for select VOCs (Method 8260) and select SVOCs (Method 8270) as required by the OM&M Plan. The laboratory analytical report is included in Appendix C. Table 5 presents the 2023 groundwater results along with previous sampling results (2019 – 2023) for comparison. In general, 2023 VOC and SVOC analytical results are comparable to historical results and are predominantly non-detect. Detections include the following.

- Aniline (0.57 mg/L), nitrobenzene (3.9 mg/L), and toluene (0.0045 mg/L) at OW-04.
- 1,1-dichloroethane (0.01 mg/L), benzene (0.0063 mg/L), and vinyl chloride (0.0033 mg/L) at MW-78. The 2023 analytical results at the 4 monitoring wells located downgradient of the recovery trench were compared to USEPA MCLs showing benzene and vinyl chloride as the only parameters above MCLs during 2023, as shown in the table below.

Parameter	Location	Result (mg/L)	USEPA MCL (mg/L)
Benzene	MW-78	0.0063	0.005
Vinyl Chloride	MW-78	0.0033	0.002

One field duplicate sample (DUP1-0623) was collected from monitoring well MW-78. Table 6 presents analytical results from the duplicate sample comparing favorably with the original sample results, indicating good sampling and analysis precision.

The groundwater sampling pump and Teflon® coated tubing were decontaminated between each well following a three-step washing procedure: 1) phosphate-free detergent (Liqui-Nox®) and tap water wash; followed by 2) tap water rinse; and 3) distilled water rinse. The equipment blank sample from the pump and tubing was collected by: 1) following the cleaning procedure detailed above; 2) pumping laboratory provided de-ionized water through the pump and tubing; and iii) collecting the de-ionized water in sample bottles. The 2023 groundwater sampling field equipment blank results are non-detect as shown on Table 7.

6.0 WETLAND TREATMENT SYSTEM OM&M REQUIREMENTS

The purpose of this section is to specify the currently approved wetland treatment system operations and maintenance requirements. If changes to the OM&M requirements are approved by USEPA, the updated requirements are captured in this section.

6.1 WEEKLY REQUIREMENTS

Surface Flow Wetland Blowers: If blowers are running check blower pressure and record value, check oil level and for oil leaks, perform manufacturer recommended lubrication, check condition of enclosures and check aeration lines in surface wetlands for leaks.

Surface Flow Wetland Hydraulic Control Structures: Confirm that there is no debris in structure and no blockages on the outlet pipes.

Vertical Flow Wetland Splitter Structure: Confirm that there is no debris in structure and no blockages on the outlet pipes.

Drying Beds: Check condition of doors when residuals are stored in drying beds. If evidence of leakage is observed, repair doors and cleanup leakage as appropriate. Also check for standing liquids in beds, if free liquids are present in the beds open valves on drainage lines.

Surface Flow Wetlands: Check for geese establishing residence within or near wetlands. If waterfowl are present or nesting in or near wetlands, use non-invasive means to dissuade geese and other waterfowl to prevent nesting. If geese are nesting assess whether damage warrants obtaining permit from USDA and NYSDEC to disturb nests.

Drying Bed Sump Pump: Whenever personnel are on Site, check if pump operates properly, if not, troubleshoot and repair as needed.

6.2 TWICE MONTHLY REQUIREMENTS

Hydraulic Control/Splitter Structure: Confirm that there is no debris in structure and no blockages of the pipes to the Surface Flow Wetlands (SFWs).

6.3 MONTHLY REQUIREMENTS

Treatment System Performance: Calculate monthly discharge from treatment system based on volumes pumped from collection system and other sources. Analyze samples of influent and effluent for parameters in List A in the SPDES limitations issued by NYSDEC.

Cascade Splitter Structure and Cascade Aerator: Check that flow from each corrugated pipe is approximately equal. If unequal, adjust weir gates to equalize flows.

Biofilter: During summer months check moisture content of media at approximately 6-inches below surface of media. If media is dry add water.

Biofilter Blower: Check blower vacuum and record value, check condition of enclosure and lines and open valve on inlet line to drain condensate. The OM&M Plan indicates to also check oil level and for oil leaks in blower. However, these items are not applicable for this non-oil filled blower.

Sedimentation Pond: Check position and condition of turbidity curtains. Curtains should be secured to anchor blocks.

Hydraulic Control/splitter Structure: Check that water level in sedimentation pond is approximately 1,508 feet-above mean sea level (amsl). If water level is below 1,507.5 feet-amsl

adjust weir gates to raise the water level. Check that flow to each of Surface Flow Wetlands is approximately equal.

Surface Flow Wetlands: Check for presence of muskrats within wetlands. If muskrats are observed in or near wetlands or have dens on platforms in wetlands obtain permit to trap muskrats and trap muskrats in accordance with NYSDEC Permit to Take Destructive Wildlife. Visually inspect condition of vegetation on platforms in basin. If areas are impacted or are missing vegetation implement geese and muskrat control measures and transplant cattails from an off-Site source to fill areas of sparse vegetation.

Surface Flow Wetland Blowers: Evaluate whether blower is to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent. Reasons for operating the blower consist of: consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather (average temperature less than 30°F); and high VOC loading in influent.

Vertical Flow Wetland Splitter Structure: Confirm that flow is approximately equal to each of the five vertical flow wetlands. If flows are unequal adjust weir gates to equalize.

Dosing Siphons: Confirm that dosing siphons are cycling.

Effluent Manhole and Outfall: Visually observe flow in effluent manhole and at outfall. Visually inspect effluent manhole and outfall pipe in swale for debris or blockages.

Drying Beds: Check for debris or blockages in catch basin on pad west of beds. If there is a blockage or excessive debris the catch basin must be cleaned.

Drying Bed Sump Pump: Confirm function of check valve in meter box and confirm operation of float switch. Monthly and prior to transferring sludge to drying beds confirm operation of pump. If pump does not operate repair as needed.

6.4 QUARTERLY REQUIREMENTS

Cascade Splitter Structure and Cascade Aerator: Inspect outlet pipes from splitter structure to manholes and corrugated pipes for obstructions for sediment buildup. If build up is greater than 25% the pipes will need to be cleaned. Cleaning will be completed using water jetting methods or other appropriate means.

Biofilter: Check for evidence of burrowing animals. If burrows are present fill with mulch.

Sedimentation Pond: Check for animals burrowing around pond and for vegetation in or around pond. If burrows are present fill with topsoil and remove vegetation if any is present.

Surface Flow Wetlands: Inspect topsoil on walls of basin berms. Areas of sloughing, liner exposure, and/or erosion will be backfilled and restored. Areas of liner exposure will also be seeded.

Vertical Flow Wetlands: Inspect topsoil on walls of basin berms. Areas of exposed liner or erosion should be backfilled and restored. Areas of exposed liner should also be seeded. Check for animals burrowing around cell, if burrows are present cover with topsoil and reseed.

Dosing Siphon Structures: Visually inspect interior of structure for debris or blockage and clean as needed.

Drying Bed Sump Pump: Monitor float switch elevations and if elevation deviates from plan by more than 0.25 feet, float switch elevations need to be adjusted.

6.5 SEMI-ANNUAL REQUIREMENTS

Sedimentation Pond: Assess need to clean pond based on iron concentrations in influent since last cleaning and prior cleaning results. Sedimentation Pond cleaning frequency based on operator judgment.

Sedimentation Pond Outlet: The OM&M Plan contemplates changing the elevation of the outlet pipe for warm and cold weather operations so that the outlet is higher in the warm months to limit iron precipitate flow to the surface flow wetlands, and lower in cold months to prevent freezing. However, starting in 2013, the outlet has been maintained at the higher elevation year-around in effort to further reduce iron precipitate carry-over into the surface flow wetlands. Through winters since 2013, this change has demonstrated to not create a freezing issue at the outlet. Since 2013 the higher elevation outlet configuration is the normal operating condition.

6.6 ANNUAL REQUIREMENTS

Treatment System Performance: Annually (June) calculate annual discharge from treatment system based on monthly discharges. Analyze samples of influent and effluent for parameters on List B in the SPDES limitations issued by NYSDEC.

Cascade Splitter Structure and Cascade Aerator: Exercise weir gates to confirm operation. Reseal cover over splitter structure if it must be disturbed to exercise gates.

Biofilter: Check depth of media in biofilter and, if free-board is greater than four inches pine bark mulch must be added to replenish.

Hydraulic Control/Splitter Structure: Exercise weir gates to confirm full range of operation.

Surface Flow Wetlands: Measure thickness of topsoil on vegetated platforms. If thickness is less than three inches topsoil should be added to bring the thickness to six inches. As of September 19, 2018, surface flow wetland topsoil thickness measurement has been eliminated per USEPA and NYSDEC approval as documented in USEPA approval letter included in Appendix F.

Surface Flow Wetland Hydraulic Control Structures: Exercise weir gates to confirm operation, if gates do not operate across full range, repair as needed. Annually (spring) set water level to approximately four to six inches above vegetated benches after the potential for freezing has passed. Annually (fall) set water level to at least 18 inches above vegetated benches before the potential for formation of more than one inch of ice.

Vertical Flow Wetland Splitter Structure: Exercise weir gates to confirm operation. If gates do not operate full range, repair is needed.

Vertical Flow Wetlands: Visually inspect limestone, if more than 0.5 inch of iron precipitate on surface of limestone remove and replace upper one foot of limestone. Evaluate effectiveness of limestone by reviewing pH in effluent for past 12 months; if pH level is consistently trending downward toward discharge limit limestone will need to be removed and replaced.

Drying Bed Sump Pump: Annually and prior to transferring sludge to drying beds exercise valves on drainage lines from drying beds to drainage sump. If valves do not operate properly, repair as needed.

Drying Beds: Prior to transferring residuals to beds confirm that sand layer in base of bed is adequate. If sand layer is less than 12 inches thick, sand needs to be added. To date residuals have not been removed from drying beds. Therefore, activity which could result in decreased sand thickness has not occurred.

6.7 BIENNIAL REQUIREMENTS

Surface Flow Wetlands: Survey dikes around and between wetlands to assess settlement. This survey has been conducted on even years. If settlement is greater than 0.1 foot from design elevation of 1,508.5 ft. amsl or previous survey a plan must be developed and implemented to address the settlement. Surveying of dikes was required to occur every two years until 2023 and every five years thereafter. As of September 19, 2018, the surface flow wetland dike survey biennial requirement has been eliminated per USEPA and NYSDEC approval as documented in USEPA approval letter included in Appendix F.

Vertical Flow Wetlands: Survey dikes around and between wetlands to assess settlement. This survey has been conducted on even years. If settlement is greater than 0.1 foot from design elevation of 1,505.5 ft. amsl or previous survey a plan must be developed and implemented to address the settlement. Surveying of dikes was required to occur every two years until 2023 and every five years thereafter. As of September 19, 2018, the vertical flow wetland dike survey biennial requirement has been eliminated per USEPA and NYSDEC approval as documented in USEPA approval letter included in Appendix F.

6.8 EVERY THREE YEARS REQUIREMENTS

Surface Flow Wetlands: Visually inspect condition of base of deep basins of the three Surface Flow Wetlands (SFWs). If there is more than 0.5 inch of iron precipitate a plan must be developed and implemented to remove the precipitate. The last required inspection was completed on May 5, 2020, and indicated need to remove excess iron precipitate and overgrowth of cattails to restore the SFWs to optimal conditions. Restoration of the three Surface Flow Wetlands commenced with SFW-1 in 2022 and continued with SFW-2 in 2023 as is detailed in Sec. 7.2.

7.0 2023 WETLAND TREATMENT SYSTEM OM&M ACTIVITIES

7.1 INSPECTIONS

The required inspections were completed during 2023. Completed inspection forms are included in Appendix A. Inspections revealed that system components are generally in satisfactory condition. Any maintenance required was performed as indicated in the following section. Noteworthy inspection items are summarized below.

- During the summer months the cascade splitter Biofilter mulch bed was routinely checked for dryness. Due to adequate rainfall, water was not required to be added in 2023.
- Flows to each wetland were found to be visually equal and were not adjusted in 2023.
- SFW aeration blowers were operated during winter 2022-2023, and were shut down for the warm season on March 20, 2023. The blowers were then started for the cold season on December 11 and operated for the remainder of 2023.
- The cascade aerator piping from the splitter structure to manholes and corrugated pipes from manholes to sediment pond were inspected quarterly for sediment buildup. One cleaning event was conducted in 2023 as described in Section 7.2.
- There was no evidence of animals burrowing into the Biofilter during 2023.
- Weir gates located at the Surface Flow Wetland Hydraulic Control Structures were exercised to confirm operation. No repairs were needed in 2023.

- Weir gates located at the Vertical Flow Wetland Splitter Structures were exercised to confirm operation. No repairs were needed in 2023.
- Valves located on drainage lines from drying beds to drainage sump were exercised. No repairs were required in 2023.

7.2 OPERATIONS AND MAINTENANCE

The wetland treatment system was operated continuously during 2023 with exception of shut down for maintenance from June 9 through June 21, 2023 for annual Sedimentation Pond cleaning, individual extraction pump issues and performing other scheduled maintenance. Wetland treatment system operations and maintenance activities were conducted as required during 2023 with a summary provided below.

Summer / Winter Operations

The wetland treatment system is operated slightly differently in the spring and summer months (warm weather operations) as compared to fall and winter months (cold weather operations). Warm weather operations include the following.

- Operate Sedimentation Pond outlet structure with an approximately 16-inch riser pipe extension to limit iron precipitate carry-over into the Surface Flow Wetlands.
- Operate SFWs with water level approximately four to six inches above cattail vegetated bench.
- SFW aeration systems are not generally operated.

Cold weather operations include the following.

- The Sedimentation Pond outlet pipe extension remains installed throughout the winter. Freezing of the Sedimentation Pond outlet pipe does not occur and removal of the extension is no longer considered necessary for cold weather operations.
- Operate SFW with water levels approximately 18 inches above elevated benches to prevent ice extraction of the cattail vegetation.
- SFW aeration blower system operated to limit ice formation in the open water areas.

The 2023 warm weather / cold weather wetland treatment system adjustments were made as described below.

- SFW aeration systems were manually shut down on March 20, 2023 for warm weather operations.
- Water levels in the SFWs were gradually lowered to summer operational elevation between May 8 and May 22, 2023. Summer level is approximately four to six inches above elevated bench level.
- Water levels in SFWs were gradually raised to winter operational elevation between October 16 and October 30, 2023.
- SFW aeration systems were started December 11, 2023 for cold weather operations and continued to operate through the remainder of the year. Blowers were inspected and greased on a weekly basis during operation.

2023 maintenance activities are discussed in the following sections.

Sedimentation Pond Maintenance

- Annual removal of accumulated sediment from the Sedimentation Pond was completed in June 2023. This maintenance requires the groundwater extraction pumps be idled, which occurred on June 9, 2023. Sediment was pumped into Sludge Drying Beds SDB-1 and SDB-2 beginning on June 13 and was completed on June 19. Annual cleaning operations were completed and extraction pumps were re-started on June 21, 2023.
- The cascade aerator outlet pipes, corrugated pipes and manholes were cleaned utilizing high-pressure water on June 13, 2023.

Surface Flow Wetlands Maintenance

- Pipe connecting SFW splitter structure to Sedimentation Pond was water jetted and the splitter structure was vacuumed to remove accumulated sediment on June 13, 2023.
- Annual maintenance was completed on the three SFW aeration blowers on prior to startup for winter operations on December 11, 2023. Maintenance included checking and tightening of drive belts, changing fluids, changing air filters, and performing required lubrication.
- SFW-2 was renovated by removing excess accumulated iron sediment and overgrowth of cattails from the three deep water basins of the pond, leaving the shallow benches which separate the deep basins undisturbed. This work was completed by a vacuum truck service, with the material transported and placed into SDB-3 and SDB-4 for drying/biodegradation. The aeration lines within the deep basins were also repaired and/or replaced during this effort. As described in Section 10, it is anticipated that the remaining SFW-3 will be renovated in similar fashion to optimize performance.
- Inoperative SFW-3 aeration blower was replaced on January 30, 2023.

Vertical Flow Wetlands Maintenance

- Vertical Flow Wetland (VFW) splitter structure and associated piping was pressure washed and vacuumed removing accumulated sediment on June 13, 2023.
- Vertical Flow 12-inch discharge line jetted from effluent manhole back towards ponds on September 13, 2023.
- Non-routine maintenance of the VFW splitter structure and inlet lines to the five VFW ponds was completed on December 15 and 16, 2023. This was in response to observation on December 12, 2023 of an apparent recent minor overflow at the VFW splitter structure, which was estimated to have occurred at some point after the previous day's routine weekly site inspection. A small amount of water was ponded in the vicinity of the structure, and the observed water level within the structure was several inches above normal, just below top edge of structure. As the name suggests, the VFW splitter structure divides water among the five (5) VFW ponds for final pH adjustment prior to discharge. Ice was observed to have formed at the outlet of the pipe as it enters VFW-1 and no flow was evident, however the remaining four pond inlets were apparently

unrestricted and flowing. A plan was developed to reestablish normal flow using high pressure water jetting coupled with vacuum as needed. Subsequently, the upset was mitigated by turning off select groundwater extraction pumps (Manhole B and Manhole G pumps) on December 12, 2023, which reduced overall influent rate while maintaining overall operability of the groundwater extraction and treatment system. Water level within the VFW splitter structure was observed to have lowered to normal range later that same day, indicating the influent reduction was the appropriate short-term action. On December 15, 2023 a contractor was mobilized to provide water jetting services, and was successful in dislodging an obstruction from the VFW-1 piping, restoring normal flow. All remaining lines were also jetted and vacuumed to optimize flows and reduce potential restrictions. Manhole B and G pumps were re-started on December 18, 2023 thereby restoring the system to normal operations.

Drying Bed Maintenance

- Sediment and vegetation removed from SFW-1 during 2022 is stockpiled within SDB-3 and SDB-4 for drying. This material was sampled on Mar. 29, 2023, and analysis confirmed it to be non-hazardous as shown on Table 8. The material was consolidated into a single bed (SDB-4) in preparation of SFW-2 renovation described above.
- On July 6, 2023 drying bed doors on DB-1 and DB-2 were inspected and found to be in satisfactory condition, therefore no maintenance activities were performed.

7.3 TREATMENT SYSTEM MONITORING

7.3.1 System Performance Monitoring

Treatment system performance monitoring includes: 1) calculating monthly and annual treatment system discharge volumes; and 2) collecting and analyzing monthly influent and effluent samples for parameters listed in NYSDEC SPDES limitations. The required treatment system performance monitoring was completed in 2023 as discussed below.

The total gallons of groundwater treated each month of 2023 and the 2023 annual total gallons treated are provided in the table below.

Month	Start Date	End Date	Total Gallons Treated
Jan 2023	12/27/22	1/30/23	7,343,759
Feb 2023	1/30/23	2/27/23	5,538,608
Mar 2023	2/27/23	4/3/23	7,921,844
Apr 2023	4/3/23	5/1/23	6,017,501
May 2023	5/1/23	5/31/23	6,402,070
Jun 2023	5/31/23	7/5/23	4,003,995

Month	Start Date	End Date	Total Gallons Treated
Jul 2023	7/5/23	7/31/23	4,428,529
Aug 2023	7/31/23	8/28/23	4,842,412
Sep 2023	8/28/23	10/2/23	5,784,671
Oct 2023	10/2/23	10/30/23	4,653,617
Nov 2023	10/30/23	11/27/23	3,691,628
Dec 2023	11/27/23	12/26/23	4,650,675
2023 Total Gallons Treated:			**65,279,309**

Monthly performance monitoring sampling and analysis was conducted throughout 2023 as follows; one combined influent sample collected from the cascade splitter structure and one wetland treatment system discharge sample collected from the effluent pipe (referred to as Outfall 001 in the NYSDEC SPDES limitations reports). Sample analysis was performed for annual NYSDEC SPDES limitations parameter list in June 2023. During the remaining months of the year samples were analyzed for the monthly parameter list. 2023 SPDES analytical results are presented in Table 9, and the 2023 laboratory analytical reports are included in Appendix C.

Required agency reporting of monthly treatment system influent and effluent monitoring results was completed by the 28th of each month throughout 2023. 2023 effluent VOC and SVOC analytical results are within NYSDEC SPDES limitations. The only recognized results above NYSDEC SPDES limitations are inorganic compounds as shown in the table below.

Parameter	Date Sampled	Result (mg/L)	Discharge Limits mg/L
Iron	6/7/23	0.321	0.3
Iron	7/5/23	0.66	0.3
Iron	8/2/23	0.56	0.3
Iron	9/6/23	0.78	0.3
Iron	10/3/23	0.66	0.3

Manganese	6/7/23	1.76	0.3
Manganese	7/5/23	5.1	0.3
Manganese	8/2/23	4	0.3
Manganese	9/6/23	3.7	0.3
Manganese	10/3/23	3.7	0.3
Manganese	11/6/23	1.8	0.3
Manganese	12/4/23	0.45	0.3
Total Dissolved Solids	6/7/23	209	200

7.3.2 Wetland Dike Survey

Surface Flow Wetland and Vertical Wetland dikes were not surveyed in 2023. As of September 19, 2018, surface flow wetland dike and vertical flow wetland dike surveys have been eliminated per USEPA and NYSDEC approval as documented in the USEPA approval letter included in Appendix F.

7.3.3 Surface Flow Wetland (SFW) Topsoil and Iron Precipitate Measurements

As of September 19, 2018, SFW topsoil thickness measurements have been eliminated per USEPA and NYSDEC approval as documented in the USEPA approval letter included in Appendix F. Iron precipitate monitoring is required once every three years, and was completed in 2020, therefore the next inspection was required in 2023. However, this requirement has been deferred due to the ongoing restoration/optimization of the SFWs which commenced in 2022 with SFW-1, continued in 2023 with SFW-2 and is scheduled to be completed in 2024 with SFW-3.

8.0 RIVER CHANNEL AND SWALE OM&M REQUIREMENTS

The purpose of this section is to specify the currently approved river channel and swale operations and maintenance requirements. If changes to the OM&M requirements are approved by USEPA, the updated requirements are captured in this section.

8.1 INSPECTION AND MONITORING REQUIREMENTS

The OM&M Plan requires that specific routine inspections and monitoring be conducted. The inspections are conducted using checklists included in Appendix A.

8.1.1 Every Two Weeks / Monthly Requirements

Water Level Control Berm at South End of Swale: Every two weeks during the summer months and monthly the rest of the year visually inspect vegetation on side slope of levee between the WLCB and the Genesee River. If vegetation is taller than 12 inches within 10 feet of the interface of the WLCB and levee cut the height to no shorter than three inches.

8.1.2 Quarterly Requirements

Water Level Control Berm at South End of Swale: Visually inspect for damage such as sloughing, erosion, or excessive vegetation and repair by replacing rip-rap to design grades and removal of vegetation. Monitor toe of levee between the WLCB and the Genesee River for seepage. If significant seepage is observed review the information with NYSDEC to evaluate whether corrective action is needed. If requested by NYSDEC, dewatering of the pool behind the WLCB will be completed.

8.1.3 Annual Requirements

Dike between CELA and Genesee River: Visually inspect trail on top of dike for water ponding or ruts. If water ponding or ruts are present fill areas with NYSDOT 401 aggregate.

8.1.4 Low River Flow Requirements

Rip-rap revetment on east riverbank near CELA: Annually during low river flow (<180 cubic feet per second; [cfs]) visually inspect for damage such as sloughing or erosion. Repair damage by replacing rip-rap to design grades.

Dike between CELA and Genesee River: Annually during low river flow (<180 cfs) visually inspect rip-rap for damage such as sloughing or erosion. Repair damage by replacing rip-rap to design grades.

Rip-rap revetment and dike on west riverbank downstream of lower drop structure: Annually during low river flow (<180 cfs) visually inspect for damage such as sloughing or erosion. Repair damage by replacing rip-rap to design grades.

8.1.5 Post High River Flow Requirements

Rip-rap revetment on east riverbank near CELA: After each high-water period (>4,500 cfs) visually inspect for damage such as sloughing or erosion. Repair damage by replacing rip-rap to design grades.

Dike between CELA and Genesee River: After each high-water period (>4,500 cfs) visually inspect for damage such as sloughing or erosion. Repair damage by replacing rip-rap to design grades.

During a high-water event (>4,500 cfs), if safe, visually inspect for any damage that might jeopardize the integrity of the dike, if any damage is present repair damage, as needed, after water level recedes.

Rip-rap revetment and dike on west riverbank downstream of lower drop structure: After each high-water period (>4,500 cfs) visually inspect for damage such as sloughing or erosion. Repair damage by replacing rip-rap to design grades.

Rip-rap revetment and dike on west riverbank downstream of lower drop structure: After each high-water period (>4,500 cfs) visually inspect for damage such as sloughing or erosion. Repair damage by replacing rip-rap to design grades.

8.1.6 Every Five Years Requirement(s)

Dike between CELA and Genesee River: Once every five years during a low river flow (<180 cfs) survey elevation of top of dike between CELA and river at 200-foot intervals to assess settlement. Survey toe of slope to check for displacement or settlement of rip-rap revetment. The survey was completed in April 2022 and therefore will be required next in 2027.

Rip-rap revetment and dike on west riverbank downstream of lower drop structure: Once every five years during a low river flow (<180 cfs) survey elevation of west riverbank downstream of lower drop structure. Survey toe of slope to check for displacement or settlement of rip-rap revetment. If excessive settlement or movement has occurred, review information with NYSDEC to evaluate whether corrective action is needed. This was completed in 2019 and therefore will be required next in 2024.

9.0 2023 RIVER CHANNEL AND SWALE OM&M ACTIVITIES

River channel and swale operations and maintenance activities were conducted as required during 2023. Completed inspection forms are included in Appendix A. A summary of 2023 operation and maintenance is provided below.

- The annual low river flow inspection of the east riverbank and dike between Genesee River and CELA was completed on June 6, 2023. As indicated by the USGS river gauge station approximately 1.8 miles downstream of the Site, the river stage at the time of the inspection was 57.2 cfs. The annual low flow inspection resulted in no observed deficiencies.
- There were no high-water events during 2023, therefore no post high-water river inspections were indicated. The USGS river gauge station approximately 1.8 miles downstream of the Site is monitored during times of elevated river flow, and the trigger value of >4,500 cfs for high water inspection was never reached in 2023.
- Vegetation on the main drainage swale levee side slope on the river side within 10 feet of the interface of the WLCB and the levee was trimmed on June 8, July 12, and September 11, 2023.
- Visual inspections of the WLCB for damage such as sloughing, erosion, vegetation, and seepage was completed throughout 2023, and no WLCB deficiencies were noted.

9.1 RIVER DIKE/RIP-RAP REVETMENT SURVEYS

River dike and rip-rap revetment settlement surveys were not required in 2023. The next surveys are required as follows.

- Rip-rap revetment and dike on west riverbank downstream of lower drop structure was completed in 2019 and is required next in 2024.
- Dike between CELA and river settlement survey was completed in 2022 and is required next in 2027.

10.0 CONCLUSIONS AND RECOMMENDATIONS

2023 operation, maintenance and monitoring activities were completed in accordance with the OM&M Plan. Installed remedial components are generally functioning as designed. The following corrective action items which were suggested prior Annual Reports have been undertaken and are either ongoing or undergoing planning as of this report date:

- As described in the 2021 Annual Report, the Surface Flow Wetlands (SFW-1, 2, and 3) west basins exhibited apparent iron precipitate accumulations above the trigger for corrective action, along with vigorous vegetation overgrowth throughout each pond. This overgrowth hindered aeration during cold weather operation of the aeration blower units. Removal of the accumulated sediment and excessive vegetation with vacuum equipment was selected to restore the ponds and optimize treatment effectiveness,

therefore SFW-1 and SFW-2 were renovated in 2021 and 2022, respectively. SFW-3 is scheduled for renovation using same process in 2024. Concurrently, the subsurface aeration lines have also been replaced during these efforts due to degradation. The west, center and east deep basins of each pond have been renovated, leaving the vegetated shallow benches which separate the three deep basins undisturbed. The sediment and vegetation removed from the ponds has been transported by vac truck and staged in SDB-3 and SDB-4 for drying.

- Observation of sediment accumulation on the surface of the five (5) VFWs lead to an evaluation in 2021 to determine sediment loading within the limestone bed. This evaluation suggests removal of the sediment laden limestone is needed to restore VFWs to optimal efficiency. Removal and replacement of the aggregate within VFW-1 is conceptually planned to begin in 2024, utilizing same vacuum equipment and techniques as have been employed with the SFW renovation.
- In addition to the monitoring well decommissioning and repairs described in Section 5.2.2, there are several other monitoring wells located throughout the Site which should be considered for decommissioning. These wells are no longer needed for Site monitoring and several are in state of disrepair. Site Stakeholders have expressed desire for removal as they have either developed or intend to develop these areas and the wells pose a hinderance. A plan to evaluate these wells and develop a decommissioning plan is suggested.

In conclusion, the groundwater recovery and wetland treatment systems continue to demonstrate effective groundwater capture and treatment. The groundwater extraction and treatment system is scheduled to be operated, maintained, and monitored in accordance with the approved plan throughout 2024.

TABLES

- **Table 1 – CELA Groundwater Analytical Results 2015 – 2023**
- **Table 2 – 2023 CELA Liquid Level Monitoring**
- **Table 3 – 2019 – 2023 Groundwater Extraction Manhole Analytical Results**
- **Table 4 – 2015 – 2023 Average Groundwater Extraction Manhole Concentrations**
- **Table 5 – 2019 to 2023 OU2 Groundwater Analytical Results**
- **Table 6 – 2023 OU-2 Groundwater Field Duplicate Sample Comparison**
- **Table 7 – 2023 Field Equipment Blank Analytical Results**
- **Table 8 – 2023 Sludge Drying Bed Sample Results**
- **Table 9 – 2023 SPDES Analytical Results**

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-01 6/10/2015	MWR-01 6/28/2017	MWR-01 6/4/2019	MWR-01 6/23/2021	MWR-01 6/8/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0198	0.0141	0.05 U
Barium	0.179	0.0012 U	0.195 J	0.191 J	0.19
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	34.1	37.4	37.3	39.9	39
Chromium	0.0043 J	0.0016 U	0.0015 U	0.0028 J	0.021
Cobalt	0.002 J	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0082 J	0.0039 J	0.02 U
Iron	2.07	3.32	8.49	8.23	6.1
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	21.3	23.2	20.7	20.2	20
Manganese	13	14.3	13	13.2	14
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0091 J	0.00088 U	0.0042 U	0.009 J	0.01 U
Potassium	1.44	0.83 U	2.09 J	1.64 J	1.5
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0157	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0014 J	0.01 U
Sodium	21.5	19.4	23.6	23.6	24
Thallium	0.0051 U	0.0036 U	0.01 U	0.0062 J	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0071 J	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-01 6/10/2015	MWR-01 6/28/2017	MWR-01 6/4/2019	MWR-01 6/23/2021	MWR-01 6/8/2023
Volatile Organic Compounds (con't)					
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-02 6/11/2015	MWR-02 6/30/2017	MWR-02 6/6/2019	MWR-02 6/24/2021	MWR-02 6/12/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.006 J	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0469	0.0546	0.0463	0.0473	0.05 U
Barium	0.446	0.49	0.452	0.423	0.38
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00065 J	0.000063 U	0.002 J	0.00031 U	0.005 U
Calcium	40.1	42	41.5	41.3	39
Chromium	0.0041 J	0.034	0.0015 U	0.0018 J	0.015 U
Cobalt	0.001 U	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0476	0.0164 J	0.02 U
Iron	47.1	52.5	50.2	51.8	48
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	29.1	31.3	30.6	29.3	29
Manganese	8.83	10.1	10	10.5	10
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0016 U	0.00088 U	0.0042 U	0.0091 J	0.01 U
Potassium	1.89	0.83 U	2.76 J	2 J	1.5
Selenium	0.0067 J	0.0062 U	0.0075 U	0.0138	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0022 J	0.01 U
Sodium	18.7	16.3	20.7	20.7	21
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0144 J	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0078	0.0093	0.0097	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0012	0.0013	0.0013	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-02 6/11/2015	MWR-02 6/30/2017	MWR-02 6/6/2019	MWR-02 6/24/2021	MWR-02 6/12/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.0036 J	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U cn
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.012
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U cn
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U
Isopropylbenzene					0.011
Isopropylbenzene (Cumene)		0.0063	0.0052	0.0077	
Methyl Acetate					0.005 U cn
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.026
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0054	0.005	0.006	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.003	0.0029	0.0039	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0017	0.0016	0.0019	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-03 6/10/2015	MWR-03 6/30/2017	MWR-03 6/6/2019	MWR-03 6/23/2021	MWR-03 6/12/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0059 J	0.05 U
Barium	0.253	0.244	0.236	0.228	0.21
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	32.5	34.6	37.8	38	34
Chromium	0.0013 U	0.0016 U	0.0015 U	0.0016 J	0.015 U
Cobalt	0.001 U	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0052 U	0.0037 U	0.02 U
Iron	2.47	3.46	2.64	3.26	4.9
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	18.4	19.9	22	21.6	22
Manganese	2.86	3.62	3.9	4.3	4.3
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0016 U	0.00088 U	0.0042 U	0.0059 J	0.01 U
Potassium	1.87	0.83 U	2.31 J	2.01 J	1.9
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	11.3	10.6	12.3	12	12
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-03 6/10/2015	MWR-03 6/30/2017	MWR-03 6/6/2019	MWR-03 6/23/2021	MWR-03 6/12/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U cn
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U cn
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U cn
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-04 6/9/2015	MWR-04 6/29/2017	MWR-04 6/6/2019	MWR-04 6/23/2021	MWR-04 6/9/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0053 U	0.05 U
Barium	0.0937	0.0012 U	0.128 J	0.132 J	0.15
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	19.2	19.1	21.5	22.1	22
Chromium	0.0626	0.0151	0.0329	0.0305	0.093
Cobalt	0.002 J	0.00063 U	0.0038 J	0.004 U	0.0054
Copper	0.0028 U	0.0025 U	0.0052 U	0.0037 U	0.02 U
Iron	0.193 J	0.599	1.03	0.691	1.7
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	5.59	5.41	6.19	6.16	6.5
Manganese	3.7	4.26	4.71	4.82	4.9
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0278	0.0483	0.0564	0.0269 J	0.044
Potassium	1.36	0.83 U	1.82 J	1.43 J	1.6
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	9.73	9.75	9.99	10.5	11
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-04 6/9/2015	MWR-04 6/29/2017	MWR-04 6/6/2019	MWR-04 6/23/2021	MWR-04 6/9/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-05 6/9/2015	MWR-05 6/29/2017	MWR-05 6/6/2019	MWR-05 6/22/2021	MWR-05 6/9/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0053 U	0.05 U
Barium	0.0722	0.0012 U	0.0734 J	0.0729 J	0.075
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	14.6	14.5	14.7	14.9	15
Chromium	0.0494	0.111	0.171	0.0663	0.055
Cobalt	0.001 U	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.008 J	0.0037 U	0.02 U
Iron	0.321 J	0.928	1.3	0.657	0.38
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	4.4	4.23	4.45	4.46	4.5
Manganese	0.0244	0.0563	0.0996	0.188	0.25
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0054 J	0.00088 U	0.0293 J	0.0225 J	0.01 U
Potassium	1.22	0.83 U	1.4 J	1.24 J	1.3
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	11.2	10.3	10.8	11.3	12
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-05 6/9/2015	MWR-05 6/29/2017	MWR-05 6/6/2019	MWR-05 6/22/2021	MWR-05 6/9/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-06 6/9/2015	MWR-06 6/29/2017	MWR-06 6/3/2019	MWR-06 6/22/2021	MWR-06 6/9/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0053 U	0.05 U
Barium	0.128	0.0012 U	0.121 J	0.127 J	0.16
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	27.6	32.4	32.8	28.5	31
Chromium	0.0018 J	0.0016 U	0.0015 U	0.0089 J	0.015 U
Cobalt	0.0035 J	0.00063 U	0.0023 J	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0052 U	0.0037 U	0.02 U
Iron	3.33	4.98	2.44	3.06	4.3
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	9.53	12	10.6	9.98	12
Manganese	6.27	8.08	6.14	6.89	8.6
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0016 U	0.00088 U	0.007 J	0.0128 J	0.011
Potassium	1.91	0.83 U	2.25 J	1.7 J	1.9
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	8.89	9.84	9	10	11
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-06 6/9/2015	MWR-06 6/29/2017	MWR-06 6/3/2019	MWR-06 6/22/2021	MWR-06 6/9/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-07 6/9/2015	MWR-07 6/29/2017	MWR-07 6/3/2019	MWR-07 6/22/2021	MWR-07 6/9/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0053 U	0.05 U
Barium	0.0544	0.0012 U	0.0787 J	0.0793 J	0.076
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 J	0.000063 U	0.00084 U	0.00071 J	0.005 U
Calcium	22.4	21.3	36.5	16.8	17
Chromium	0.0013 J	0.0016 U	0.0015 U	0.0011 U	0.015 U
Cobalt	0.001 U	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0059 J	0.0037 U	0.02 U
Iron	0.221 J	0.109	0.058	0.138	0.2 U
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	5.55	4.35	6.88	4.79	4.6
Manganese	2.59	0.289	0.137	0.444	0.4
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0016 U	0.00088 U	0.0066 J	0.0067 J	0.01 U
Potassium	1.91	0.83 U	2.38 J	1.33 J	1.5
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	10.2	10.6	11.1	11.4	12
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.0026 J	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-07 6/9/2015	MWR-07 6/29/2017	MWR-07 6/3/2019	MWR-07 6/22/2021	MWR-07 6/9/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-08 6/8/2015	MWR-08 6/28/2017	MWR-08 6/3/2019	MWR-08 6/22/2021	MWR-08 6/8/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0053 U	0.05 U
Barium	0.123	0.0012 U	0.116 J	0.107 J	0.099
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	41.4	41.3	59.5	53.7	56
Chromium	0.0025 J	0.0016 U	0.0274	0.0083 J	0.029
Cobalt	0.0014 J	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0052 U	0.004 J	0.02 U
Iron	2.09	1.11	2.06	0.743	2
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	27.1	26.8	24.2	24.3	23
Manganese	2.17	3.17	0.795	1.32	1.1
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0292	0.00088 U	0.0383 J	0.0181 J	0.028
Potassium	2.42	0.83 U	2.42 J	2.28 J	2.4
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	11	12.3	9.7	10.6	11
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-08 6/8/2015	MWR-08 6/28/2017	MWR-08 6/3/2019	MWR-08 6/22/2021	MWR-08 6/8/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-09 6/8/2015	MWR-09 6/28/2017	MWR-09 6/3/2019	MWR-09 6/21/2021	MWR-09 6/8/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0053 U	0.05 U
Barium	0.215	0.204	0.169 J	0.178 J	0.19
Beryllium	0.00067 U	0.00057 U	0.000087 J	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	45.5	51.9	47.1	53.4	50
Chromium	0.0017 J	0.0016 U	0.0015 U	0.0011 U	0.015 U
Cobalt	0.001 U	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0052 U	0.0037 U	0.02 U
Iron	10.1	6.14	6.81	6.75	8.5
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	20.2	22	17.9	17.1	17
Manganese	2.59	2.32	3.58	2.02	2
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0016 U	0.00088 U	0.0071 J	0.0091 J	0.01 U
Potassium	2.62	0.83 U	2.69 J	2.75 J	2.7
Selenium	0.0048 U	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	15.6	17.2	17.1	13.1	14
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-09 6/8/2015	MWR-09 6/28/2017	MWR-09 6/3/2019	MWR-09 6/21/2021	MWR-09 6/8/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-10 6/8/2015	MWR-10 6/28/2017	MWR-10 6/3/2019	MWR-10 6/21/2021	MWR-10 6/8/2023
Inorganic Compounds					
Aluminum	0.0674 U	0.0134 U	0.0334 U	0.0315 U	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0462	0.0773	0.0735	0.058	0.073
Barium	0.355	0.389	0.34	0.405	0.39
Beryllium	0.00067 U	0.00057 U	0.000066 J	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	37.9	41.8	37.2	43.7	40
Chromium	0.0037 J	0.0016 U	0.0015 U	0.005 J	0.015 U
Cobalt	0.0011 J	0.00063 U	0.0022 U	0.004 U	0.005 U
Copper	0.0028 U	0.0025 U	0.0052 U	0.0067 J	0.02 U
Iron	31.4	35.4	27.3	37.2	33
Lead	0.0047 U	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	18.1	19.3	17.7	17.7	17
Manganese	9.18	9.04	7.53	8.92	8.1
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.0016 U	0.00088 U	0.0063 J	0.0128 J	0.01 U
Potassium	1.49	0.83 U	1.9 J	1.75 J	1.9
Selenium	0.0051 J	0.0062 U	0.0075 U	0.008 J	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	19.8	17.4	19.1	21.3	21
Thallium	0.0051 U	0.0036 U	0.01 U	0.0068 J	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.002 U	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-10 6/8/2015	MWR-10 6/28/2017	MWR-10 6/3/2019	MWR-10 6/21/2021	MWR-10 6/8/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-11 6/8/2015	MWR-11 6/27/2017	MWR-11 6/3/2019	MWR-11 6/21/2021	MWR-11 6/8/2023
Inorganic Compounds					
Aluminum	0.74	0.86	0.113 J	0.0583 J	0.3 U
Antimony	0.0051 U	0.003 U	0.0134 U	0.0208 U	0.05 U
Arsenic	0.0072 U	0.0068 U	0.0081 U	0.0053 U	0.05 U
Barium	0.146	0.0012 U	0.0958 J	0.1 J	0.11
Beryllium	0.00067 U	0.00057 U	0.000064 U	0.00033 U	0.005 U
Cadmium	0.00033 U	0.000063 U	0.00084 U	0.00031 U	0.005 U
Calcium	58.7	49.4	40.6	50.3	58
Chromium	0.412	0.911	0.055	0.0489	1.4
Cobalt	0.0085 J	0.00063 U	0.0022 U	0.004 U	0.006
Copper	0.0078 J	0.0025 U	0.0056 J	0.0047 J	0.024
Iron	4.69	7.37	1.32	1.02	6.8
Lead	0.0378	0.0013 U	0.0043 U	0.0022 U	0.015 U
Magnesium	11.2	9.35	7.78	8.9	9.4
Manganese	0.243	0.262	0.134	0.0986	0.12
Mercury	0.00005 U			0.000086 U	0.0002 U
Nickel	0.088	0.0915	0.0648	0.0431	0.1
Potassium	4.66	0.83 U	3.88 J	3.57 J	3.4 ^2
Selenium	0.0795	0.0062 U	0.0075 U	0.0071 U	0.05 U
Silver	0.0018 U	0.0036 U	0.0023 U	0.0012 U	0.01 U
Sodium	31	31.7	31.2	32	34
Thallium	0.0051 U	0.0036 U	0.01 U	0.0053 U	0.03 U
Vanadium	0.0019 U	0.0008 U	0.006 U	0.003 U	0.01 U
Zinc	0.0076 J	0.0012 U	0.0048 U	0.0086 U	0.02 U
Semi Volatile Organic Compounds					
Hexachloro-1,3-butadiene		0.0005 U	0.00044 U	0.00044 U	
1,2,3-Trichlorobenzene		0.0005 U	0.00064 U	0.00087 U	
1,2,4-Trichlorobenzene		0.0005 U	0.00045 U	0.00072 U	0.005 U
Naphthalene		0.0005 U	0.00084 U	0.00068 U	
Volatile Organic Compounds					
1,1,1,2-Tetrachloroethane		0.0005 U	0.00022 U	0.00059 U	
1,1,1-Trichloroethane	0.0001 U	0.0005 U	0.00022 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.0001 U	0.0005 U	0.00032 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.0001 U	0.0005 U	0.00023 U	0.00049 U	0.001 U
1,1-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.0001 U	0.0005 U	0.00023 U	0.00054 U	0.001 U cn
1,1-Dichloropropene		0.0005 U	0.00023 U	0.00054 U	
1,2,3-Trichloropropane		0.0005 U	0.00028 U	0.00048 U	
1,2,4,5-tetramethylbenzene		0.0005 U	0.00024 U	0.00058 U	
1,2,4-Trimethylbenzene		0.0005 U	0.0003 U	0.0005 U	
1,2-Dibromo-3-chloropropane					0.005 U
1,2-Dibromoethane		0.0005 U	0.00024 U	0.0004 U	0.001 U
1,2-Dichlorobenzene		0.0005 U	0.00017 U	0.00058 U	0.005 U
1,2-Dichloroethane	0.0001 U	0.0005 U	0.00019 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.0001 U	0.0005 U	0.00043 U	0.00045 U	0.001 U
1,3,5-Trimethylbenzene		0.0005 U	0.00017 U	0.00051 U	
1,3-Dichlorobenzene		0.0005 U	0.00023 U	0.00046 U	0.005 U
1,3-Dichloropropane		0.0005 U	0.00022 U	0.00042 U	
1,4-Dichlorobenzene		0.0005 U	0.00025 U	0.00048 U	0.005 U
1,4-Diethylbenzene		0.0005 U	0.00015 U	0.00037 U	

Volatile Organic Compounds (con't)

Please see page 22 for notes.

Table 1

CELA Groundwater Analytical Results (2015-2023)
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MWR-11 6/8/2015	MWR-11 6/27/2017	MWR-11 6/3/2019	MWR-11 6/21/2021	MWR-11 6/8/2023
2,2-Dichloropropane		0.0005 U	0.00028 U	0.00054 U	
2-Butanone (MEK)	0.001 U	0.0005 U	0.0013 U	0.00051 U	0.01 U
2-Chlorotoluene		0.0005 U	0.00023 U	0.00044 U	
2-Hexanone	0.001 U	0.0005 U	0.0006 U	0.00074 U	0.01 U
4-Chlorotoluene		0.0005 U	0.00025 U	0.00041 U	
4-Methyl-2-pentanone	0.001 U	0.0005 U	0.00039 U	0.00036 U	0.01 U
Acetone	0.003 U	0.001 U	0.0016 U	0.0019 U	0.02 U
Benzene	0.0001 U	0.0005 U	0.00022 U	0.00058 U	0.001 U
Bromobenzene		0.0005 U	0.00021 U	0.00058 U	
Bromochloromethane		0.0005 U	0.00018 U	0.00043 U	
Bromodichloromethane	0.0001 U	0.0005 U	0.00022 U	0.00048 U	0.001 U
Bromoform	0.0001 U	0.0005 U	0.00043 U	0.00061 U	0.004 U
Bromomethane	0.0001 U	0.0005 U	0.00043 U	0.00074 U	0.001 U
Carbon disulfide	0.0004 U	0.0005 U	0.00025 U	0.00057 U	0.005 U
Carbon tetrachloride	0.0001 U	0.0005 U	0.0002 U	0.00033 U	0.001 U
Chlorobenzene	0.0001 U	0.0005 U	0.00018 U	0.00057 U	0.001 U
Chlorodifluoromethane		0.0005 U	0.0004 U	0.00041 U	
Chloroethane	0.0001 U	0.0005 U	0.00035 U	0.00064 U	0.001 U
Chloroform	0.0001 U	0.0005 U	0.0002 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0005 U	0.0002 U	0.00063 U	0.002 U
cis-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00024 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00026 U	0.00046 U	0.001 U
Cyclohexane					0.005 U
Dibromochloromethane	0.0001 U	0.0005 U	0.00029 U	0.0005 U	0.001 U
Dibromomethane		0.0005 U	0.00024 U	0.00045 U	
Dichlorodifluoromethane		0.0005 U	0.00024 U	0.00037 U	0.001 U cn
Dichloromethane (Methylene chloride)	0.0002 U	0.0005 U	0.0003 U	0.00077 U	0.001 U
Ethyl benzene	0.0001 U	0.0005 U	0.00016 U	0.00052 U	0.001 U
Freon-113					0.01 U *- cn
Isopropylbenzene					0.005 U
Isopropylbenzene (Cumene)		0.0005 U	0.00023 U	0.0004 U	
Methyl Acetate					0.005 U
Methyl tert-butyl ether (MTBE)		0.0005 U	0.00028 U	0.00051 U	0.001 U
Methylcyclohexane					0.005 U cn
n-Butylbenzene		0.0005 U	0.00019 U	0.00038 U	
n-Propylbenzene		0.0005 U	0.00017 U	0.00033 U	
p-Isopropyltoluene		0.0005 U	0.00022 U	0.00037 U	
sec-Butylbenzene		0.0005 U	0.00021 U	0.0003 U	
Styrene	0.0001 U	0.0005 U	0.00022 U	0.00057 U	0.005 U
tert-Butylbenzene		0.0005 U	0.0002 U	0.00037 U	
Tetrachloroethene	0.0001 U	0.0005 U	0.00028 U	0.00053 U	0.001 U
Toluene	0.0001 U	0.0005 U	0.0002 U	0.00057 U	0.001 U
trans-1,2-Dichloroethene	0.0001 U	0.0005 U	0.00019 U	0.00056 U	0.002 U
trans-1,3-Dichloropropene	0.0001 U	0.0005 U	0.00036 U	0.0005 U	0.001 U
trans-1,4-Dichloro-2-butene		0.0005 U	0.00054 U	0.00078 U	
Trichloroethene	0.0001 U	0.0005 U	0.00022 U	0.00047 U	0.001 U
Trichlorofluoromethane		0.0005 U	0.00012 U	0.00023 U	0.001 U cn
Vinyl chloride	0.0001 U	0.0005 U	0.00033 U	0.00048 U	0.001 U cn
Xylenes (total)	0.0001 U	0.0005 U	0.00018 U	0.00047 U	0.001 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 22 for notes.

Table 2

2023 CELA Liquid Level Monitoring
Former Sinclair Refinery Site
Wellsville, New York

Location	Date	Depth to Water (ft)	Depth to LNAPL (ft)	Measuring Point Elevation (ft amsl)	Water Elevation (ft amsl)
MWR-01	6/8/2023	10.40		1502.04	1491.64
MWR-02	6/12/2023	15.00	14.98	1506.48	1491.48
MWR-03	6/12/2023	15.09		1506.59	1491.50
MWR-04	6/9/2023	15.23		1507.52	1492.29
MWR-05	6/9/2023	14.67		1507.62	1492.95
MWR-06	6/9/2023	13.89		1508.5	1494.61
MWR-07	6/9/2023	13.15		1508.29	1495.14
MWR-08	6/8/2023	14.59		1508.6	1494.01
MWR-09	6/8/2023	11.38		1505.46	1494.08
MWR-10	6/8/2023	10.06		1502.25	1492.19
MWR-11	6/8/2023	11.15		1511.3	1500.15

Notes:
1) Water elevation not compensated for LNAPL where present.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-A 6/3/2019	MH-A 6/25/2020	MH-A 6/2/2021	MH-A 6/21/2022	MH-A 6/6/2023
Inorganic Compounds					
Arsenic	0.109	0.213	0.115	0.134	0.12
Iron	30.3	48.5	32.3	36	32
Manganese	4.66	5.57	4.88	5.25	3.9
Semi Volatile Organic Compounds					
1,1-Biphenyl					0.0053 U
2,4,5-Trichlorophenol		0.00034 U			0.0053 U
2,4,6-Trichlorophenol	0.00016 U	0.00033 U	0.00032 U	0.00035 U	0.0053 U
2,4-Dichlorophenol	0.00023 U	0.00033 U	0.00031 U	0.00035 U	0.0053 U
2,4-Dimethylphenol	0.0006 U	0.0006 U	0.00057 U	0.00064 U	0.0053 U
2,4-Dinitrophenol	0.0025 U	0.005 U	0.0047 U	0.0053 U	0.011 U
2,4-Dinitrotoluene	0.0002 U	0.00035 U	0.00033 U	0.00037 U	0.0053 U
2,6-Dinitrotoluene	0.00032 U	0.00044 U	0.00042 U	0.00047 U	0.0053 U
2-Chloronaphthalene	0.00028 U	0.00033 U	0.00031 U	0.00035 U	0.0053 U
2-Chlorophenol	0.00018 U	0.00038 U	0.00035 U	0.0004 U	0.0053 U
2-Methylnaphthalene	0.00021 U				0.0053 U
2-Methylphenol					0.0053 U
2-Nitroaniline					0.0053 U
2-Nitrophenol	0.00027 U	0.00039 U	0.00037 U	0.00041 U	0.0053 U
3,3-Dichlorobenzidine	0.00016 U	0.00053 U	0.0005 U	0.00056 U	0.0053 U
3-Nitroaniline					0.0053 U
4,6-Dinitro-2-methylphenol	0.0019 U	0.0038 U	0.0036 U	0.004 U	0.011 U
4-Bromophenyl-phenylether	0.00017 U	0.00047 U	0.00045 U	0.0005 U	0.0053 U
4-Chloro-3-methylphenol	0.00019 U	0.00046 U	0.00043 U	0.00048 U	0.0053 U
4-Chloroaniline					0.0053 U
4-Chlorophenyl-phenylether	0.00028 U	0.00037 U	0.00035 U	0.0004 U	0.0053 U
4-Methylphenol					0.0053 U
4-Nitroaniline					0.0053 U
4-Nitrophenol	0.0025 U	0.0039 U	0.0036 U	0.0041 U	0.0053 U
Acenaphthene	0.00018 U	0.00036 U	0.00034 U	0.00038 U	0.0053 U
Acenaphthylene	0.0002 U	0.00034 U	0.00032 U	0.00036 U	0.0053 U
Acetophenone					0.0053 U
Aniline	0.00021 U	0.00033 U	0.00031 U	0.00035 U	0.0053 U
Anthracene	0.00014 U	0.00042 U	0.0004 U	0.00045 U	0.0053 U
Benzidine	0.00055 U	0.0047 U	0.0045 U	0.005 U	
Benzo(a)anthracene	0.00012 U	0.00044 U	0.00042 U	0.00047 U	0.0053 U
Benzo(a)pyrene	0.000096 U	0.00075 U	0.0007 U	0.00079 U	0.0053 U
Benzo(b)fluoranthene	0.00015 U	0.00064 U	0.00061 U	0.00068 U	0.0053 U
Benzo(g,h,i)perylene	0.00068 U	0.0005 U	0.00079 U	0.00089 U	0.0053 U
Benzo(k)fluoranthene	0.000093 U	0.00076 U	0.00071 U	0.0008 U	0.0053 U
bis(2-Chloroethoxy) methane	0.00044 U	0.00038 U	0.00036 U	0.0004 U	0.0053 U
bis(2-Chloroethyl) ether	0.00017 U	0.00033 U	0.00032 U	0.00035 U	0.0053 U
bis(2-Ethylhexyl) phthalate		0.0005 U			0.0053 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-A 6/3/2019	MH-A 6/25/2020	MH-A 6/2/2021	MH-A 6/21/2022	MH-A 6/6/2023
Semi Volatile Organic Compounds (con't)					
Butylbenzylphthalate	0.00024 U	0.0004 U	0.00038 U	0.00042 U	0.0053 U
Carbazole					0.0053 U
Chrysene	0.00017 U	0.00047 U	0.00044 U	0.0005 U	0.0053 U
Dibenzo(a,h)anthracene	0.00035 U	0.00093 U	0.00087 U	0.00098 U	0.0053 U
Dibenzofuran					0.0053 U
Dichloroispropyl Ether	0.00016 U	0.00038 U	0.00036 U	0.0004 U	0.0053 U
Diethylphthalate	0.00014 U	0.00042 U	0.00039 U	0.0031	0.0053 U
Dimethylphthalate	0.00018 U	0.00056 U	0.00053 U	0.00059 U	0.0053 U *1
Di-n-butylphthalate	0.00017 U	0.00069 U	0.00065 U	0.00073 U	0.0053 U
Di-n-octylphthalate	0.0002 U	0.0005 U	0.00071 U	0.0008 U	0.0053 U
Fluoranthene	0.00027 U	0.0004 U	0.00037 U	0.00042 U	0.0053 U
Fluorene	0.0002 U	0.00038 U	0.00041 J	0.0004 U	0.0053 U
Hexachloro-1,3-butadiene	0.00041 U	0.00046 U	0.00043 U	0.00049 U	
Hexachlorobenzene	0.00022 U	0.00035 U	0.00033 U	0.00037 U	0.0053 U
Hexachlorocyclopentadiene	0.0025 U	0.0022 U	0.0021 U	0.0023 U	0.016 U *1
Hexachloroethane	0.00019 U	0.00043 U	0.00047 U	0.00053 U	0.0021 U *1
Indeno(1,2,3-cd)pyrene	0.00025 U	0.00088 U	0.00083 U	0.00093 U	0.0053 U
Isophorone	0.00013 U	0.00039 U	0.00037 U	0.00042 U	0.0053 U
Nitrobenzene	0.00039 U	0.0005 U	0.00047 U	0.00053 U	0.0053 U
N-Nitrosodimethylamine	0.00016 U	0.00031 U	0.00029 U	0.00033 U	
N-Nitroso-di-n-propylamine	0.00029 U	0.00042 U	0.0004 U	0.00045 U	
N-Nitrosodi-n-propylamine					0.0053 U
N-Nitrosodiphenylamine/Diphenylamine	0.00026 U	0.00035 U	0.00033 U	0.00037 U	0.0053 U
Pentachlorophenol	0.0025 U	0.0034 U	0.0032 U	0.0036 U	0.0053 U
Phenanthrene	0.00021 U	0.00035 U	0.00033 U	0.00037 U	0.0053 U
Pyrene	0.0002 U	0.00041 U	0.00039 U	0.00044 U	0.0053 U
1,2,4-Trichlorobenzene	0.00024 U	0.00038 U	0.00036 U	0.00072 U	0.0005 U
Hexachlorobutadiene					0.0021 U *1
Naphthalene	0.00028 U	0.00037 U	0.00035 U	0.0004 U	0.0021 U
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U	0.0005 U
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U	0.0005 U
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U	0.0005 U
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U		
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00058 U	0.00058 U	0.00052
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U	0.0005 U
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U		0.0005 U
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U		0.0005 U
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U	0.0005 U
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U	0.0005 U cn
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U	0.0005 U
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U	0.0005 U
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U	0.0005 U
2-Butanone (MEK)	0.0013 U	0.0013 U	0.00051 U	0.00051 U	0.005 U
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U	0.005 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-A 6/3/2019	MH-A 6/25/2020	MH-A 6/2/2021	MH-A 6/21/2022	MH-A 6/6/2023
Volatile Organic Compounds (con't)					
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U	0.005 U
Acetone	0.0025 J	0.0016 U	0.0019 U	0.0024 J	0.005 U
Benzene	0.0117	0.0155	0.0126	0.0144	0.0092
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U	0.0005 U
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U	0.001 U
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U	0.0005 U cn
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U	0.001 U
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U	0.0005 U
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U	0.0005 U
Chloroethane	0.00035 U	0.00035 U	0.00064 U	0.001	0.0005 U cn
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U	0.0005 U
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U	0.0005 U
cis-1,2-Dichloroethene	0.00024 U	0.00024 U	0.0005 U	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U	0.0005 U
Cyclohexane	0.0819	0.11	0.084		0.075
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U	0.0005 U
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U	0.0005 U cn
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U	0.0005 U
Ethyl benzene	0.00016 U	0.00016 U	0.00052 U	0.00052 U	0.0005 U
Freon-113					0.0005 U
Isopropylbenzene					0.0095
Isopropylbenzene (Cumene)	0.0099	0.0107	0.0104	0.0104	
m&p-Xylene	0.003	0.0031	0.0025		
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U		0.001 U
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U	0.0005 U
Methylcyclohexane	0.0505	0.0687	0.0465		0.052
o-Xylene	0.00018 U	0.00018 U	0.00047 U		
Phenol	0.00014 U	0.0003 U	0.00094 U	0.0011 U	0.0011 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U	0.0005 U
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U	0.0005 U
Toluene	0.0019	0.0023	0.0022	0.0024	0.0018
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U	0.0005 U
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U	0.0005 U
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U	0.0005 U
Vinyl chloride	0.00033 U	0.00033 U	0.00048 U	0.00048 U	0.0005 U
Xylenes (total)	0.003	0.0031	0.0025 J	0.0022	0.0027
General Chemistry					
Total Suspended Solids	38	58	35.2	44	15

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-B 6/3/2019	MH-B 6/25/2020	MH-B 6/2/2021	MH-B 6/21/2022	MH-B 6/6/2023
Inorganic Compounds					
Arsenic	0.108	0.107	0.112	0.11	0.11
Iron	32.6	32.3	33.6	32.2	30
Manganese	3.11	3.18	3.21	3.04	3.1 ^2
Semi Volatile Organic Compounds					
1,1-Biphenyl					0.0052 U
2,4,5-Trichlorophenol		0.00034 U			0.0052 U
2,4,6-Trichlorophenol	0.00016 U	0.00033 U	0.00033 U	0.00035 U	0.0052 U
2,4-Dichlorophenol	0.00023 U	0.00033 U	0.00033 U	0.00035 U	0.0052 U
2,4-Dimethylphenol	0.0006 U	0.0006 U	0.0006 U	0.00063 U	0.0052 U
2,4-Dinitrophenol	0.0025 U	0.005 U	0.005 U	0.0052 U	0.01 U
2,4-Dinitrotoluene	0.0002 U	0.00035 U	0.00035 U	0.00037 U	0.0052 U
2,6-Dinitrotoluene	0.00032 U	0.00044 U	0.00044 U	0.00047 U	0.0052 U
2-Chloronaphthalene	0.00028 U	0.00033 U	0.00033 U	0.00035 U	0.0052 U
2-Chlorophenol	0.00018 U	0.00038 U	0.00038 U	0.0004 U	0.0052 U
2-Methylnaphthalene	0.00021 U				0.0052 U
2-Methylphenol					0.0052 U
2-Nitroaniline					0.0052 U
2-Nitrophenol	0.00027 U	0.0022	0.00075 J	0.0028 J	0.0052 U
3,3-Dichlorobenzidine	0.00016 U	0.00053 U	0.00053 U	0.00056 U	0.0052 U
3-Nitroaniline					0.0052 U
4,6-Dinitro-2-methylphenol	0.0019 U	0.0038 U	0.0038 U	0.004 U	0.01 U
4-Bromophenyl-phenylether	0.00017 U	0.00047 U	0.00047 U	0.0005 U	0.0052 U
4-Chloro-3-methylphenol	0.00019 U	0.00046 U	0.00046 U	0.00048 U	0.0052 U
4-Chloroaniline					0.0052 U
4-Chlorophenyl-phenylether	0.00028 U	0.00037 U	0.00037 U	0.00039 U	0.0052 U
4-Methylphenol					0.0052 U
4-Nitroaniline					0.0052 U
4-Nitrophenol	0.0025 U	0.0039 U	0.0039 U	0.0041 U	0.0052 U
Acenaphthene	0.00018 U	0.00036 U	0.00036 U	0.00038 U	0.0052 U
Acenaphthylene	0.0002 U	0.00034 U	0.00034 U	0.00036 U	0.0052 U
Acetophenone					0.0052 U
Aniline	1.78	2.06	1.44	1.56	1.1
Anthracene	0.00014 U	0.00042 U	0.00042 U	0.00044 U	0.0052 U
Benzidine	0.00055 U	0.0047 U	0.0047 U	0.005 U	
Benzo(a)anthracene	0.00012 U	0.00044 U	0.00044 U	0.00046 U	0.0052 U
Benzo(a)pyrene	0.000096 U	0.00075 U	0.00075 U	0.00079 U	0.0052 U
Benzo(b)fluoranthene	0.00015 U	0.00064 U	0.00064 U	0.00068 U	0.0052 U
Benzo(g,h,i)perylene	0.00068 U	0.0005 U	0.00084 U	0.00089 U	0.0052 U
Benzo(k)fluoranthene	0.000093 U	0.00076 U	0.00076 U	0.0008 U	0.0052 U
bis(2-Chloroethoxy) methane	0.00044 U	0.00038 U	0.00038 U	0.0004 U	0.0052 U
bis(2-Chloroethyl) ether	0.00017 U	0.00033 U	0.00033 U	0.00035 U	0.0052 U
bis(2-Ethylhexyl) phthalate		0.0005 U			0.0052 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-B 6/3/2019	MH-B 6/25/2020	MH-B 6/2/2021	MH-B 6/21/2022	MH-B 6/6/2023
Semi Volatile Organic Compounds (con't)					
Butylbenzylphthalate	0.00024 U	0.0004 U	0.0004 U	0.00042 U	0.0052 U
Carbazole					0.0052 U
Chrysene	0.00017 U	0.00047 U	0.00047 U	0.0005 U	0.0052 U
Dibenzo(a,h)anthracene	0.00035 U	0.00093 U	0.00093 U	0.00098 U	0.0052 U
Dibenzofuran					0.0052 U
Dichloroispropyl Ether	0.00016 U	0.00038 U	0.00038 U	0.0004 U	0.0052 U
Diethylphthalate	0.00014 U	0.00042 U	0.00042 U	0.0032	0.0052 U
Dimethylphthalate	0.00018 U	0.00056 U	0.00056 U	0.00059 U	0.0052 U *1
Di-n-butylphthalate	0.00017 U	0.00069 U	0.00069 U	0.00072 U	0.0052 U
Di-n-octylphthalate	0.0002 U	0.0005 U	0.00076 U	0.0008 U	0.0052 U
Fluoranthene	0.00027 U	0.0004 U	0.0004 U	0.00042 U	0.0052 U
Fluorene	0.0002 U	0.00038 U	0.00038 U	0.0004 U	0.0052 U
Hexachloro-1,3-butadiene	0.00041 U	0.00046 U	0.00046 U	0.00048 U	
Hexachlorobenzene	0.00022 U	0.00035 U	0.00035 U	0.00036 U	0.0052 U
Hexachlorocyclopentadiene	0.0025 U	0.0022 U	0.0022 U	0.0023 U	0.016 U *1
Hexachloroethane	0.00019 U	0.00043 U	0.0005 U	0.00052 U	0.0021 U *1
Indeno(1,2,3-cd)pyrene	0.00025 U	0.00088 U	0.00088 U	0.00092 U	0.0052 U
Isophorone	0.00013 U	0.00039 U	0.00039 U	0.00041 U	0.0052 U
Nitrobenzene	0.393	2.18	0.515	1.2	2.3
N-Nitrosodimethylamine	0.00016 U	0.00031 U	0.00031 U	0.00033 U	
N-Nitroso-di-n-propylamine	0.00029 U	0.00042 U	0.00042 U	0.00044 U	
N-Nitrosodi-n-propylamine					0.0052 U
N-Nitrosodiphenylamine/Diphenylamine	0.00026 U	0.00035 U	0.00035 U	0.00037 U	0.0052 U
Pentachlorophenol	0.0025 U	0.0034 U	0.0034 U	0.0036 U	0.0052 U
Phenanthrene	0.00021 U	0.00035 U	0.00035 U	0.00037 U	0.0052 U
Pyrene	0.0002 U	0.00041 U	0.00041 U	0.00043 U	0.0052 U
1,2,4-Trichlorobenzene	0.00024 U	0.00038 U	0.00038 U	0.00072 U	0.0005 U
Hexachlorobutadiene					0.0021 U *1
Naphthalene	0.00028 U	0.00037 U	0.00037 U	0.00039 U	0.0021 U
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U	0.0005 U
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U	0.0005 U
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U	0.0005 U
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U		
1,1-Dichloroethane	0.0035	0.0036	0.002	0.0012	0.0005 U
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U	0.0005 U
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U		0.0005 U
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U		0.0005 U
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U	0.0005 U
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U	0.0005 U
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U	0.0005 U
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U	0.0005 U
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U	0.0005 U
2-Butanone (MEK)	0.0013 U	0.0013 U	0.00051 U	0.00051 U	0.005 U
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U	0.005 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-B 6/3/2019	MH-B 6/25/2020	MH-B 6/2/2021	MH-B 6/21/2022	MH-B 6/6/2023
Volatile Organic Compounds (con't)					
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U	0.005 U
Acetone	0.0032 J	0.0016 U	0.0019 J	0.0023 J	0.005 U
Benzene	0.0116	0.0114	0.0084	0.0068	0.0046
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U	0.0005 U
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U	0.001 U
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U	0.0005 U
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U	0.001 U
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U	0.0005 U
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U	0.0005 U
Chloroethane	0.0011	0.0022	0.0017	0.0018	0.0005 U
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U	0.0005 U
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U	0.0005 U
cis-1,2-Dichloroethene	0.0024	0.0026	0.0024	0.002	0.0028
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U	0.0005 U
Cyclohexane	0.0708	0.0774	0.0596		0.045 cn
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U	0.0005 U
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U	0.0005 U
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U	0.0005 U
Ethyl benzene	0.00016 U	0.00016 U	0.00052 U	0.00052 U	0.00052
Freon-113					0.0005 U cn
Isopropylbenzene					0.0051
Isopropylbenzene (Cumene)	0.01	0.0098	0.0077	0.0067	
m&p-Xylene	0.0042	0.0046	0.003		
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U		0.001 U
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U	0.0005 U
Methylcyclohexane	0.0306	0.0366	0.0275		0.028 cn
o-Xylene	0.0014	0.0015	0.0012		
Phenol	0.00014 U	0.0003 U	0.001 U	0.0011 U	0.001 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U	0.0005 U
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U	0.0005 U
Toluene	0.0037	0.0039	0.003	0.004	0.0027
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U	0.0005 U
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U	0.0005 U
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U	0.0005 U
Vinyl chloride	0.0025	0.0022	0.0013	0.0017	0.0016
Xylenes (total)	0.0056	0.006	0.0042	0.0047	0.0038
General Chemistry					
Total Suspended Solids	50	46	51.6	52	43

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-C 6/3/2019	MH-C 6/25/2020	MH-C 6/2/2021	MH-C 6/21/2022	MH-C 6/6/2023
Inorganic Compounds					
Arsenic	0.0627	0.0463	0.0539	0.0578	0.094
Iron	42.2	43.8	44.7	40.3	83
Manganese	3.67	3.81	4.06	3.85	4.6
Semi Volatile Organic Compounds					
1,1-Biphenyl					0.051 U
2,4,5-Trichlorophenol		0.00034 U			0.051 U
2,4,6-Trichlorophenol	0.0078 U	0.00033 U	0.00033 U	0.00037 U	0.051 U
2,4-Dichlorophenol	0.0115 U	0.00033 U	0.00033 U	0.00036 U	0.051 U
2,4-Dimethylphenol	0.03 U	0.0006 U	0.0006 U	0.00066 U	0.051 U
2,4-Dinitrophenol	0.125 U	0.005 U	0.005 U	0.0054 U	0.1 U
2,4-Dinitrotoluene	0.0102 U	0.00035 U	0.00035 U	0.00038 U	0.051 U
2,6-Dinitrotoluene	0.0158 U	0.00044 U	0.00044 U	0.00049 U	0.051 U
2-Chloronaphthalene	0.0142 U	0.00033 U	0.00033 U	0.00036 U	0.051 U
2-Chlorophenol	0.009 U	0.00038 U	0.00038 U	0.00041 U	0.051 U
2-Methylnaphthalene	0.0106 U				0.051 U
2-Methylphenol					0.051 U
2-Nitroaniline					0.051 U
2-Nitrophenol	0.0133 U	0.00039 U	0.0017 J	0.00042 U	0.051 U
3,3-Dichlorobenzidine	0.0082 U	0.00053 U	0.00053 U	0.00058 U	0.051 U
3-Nitroaniline					0.051 U
4,6-Dinitro-2-methylphenol	0.095 U	0.0038 U	0.0038 U	0.0042 U	0.1 U
4-Bromophenyl-phenylether	0.0087 U	0.00047 U	0.00047 U	0.00052 U	0.051 U
4-Chloro-3-methylphenol	0.0095 U	0.00046 U	0.00046 U	0.0005 U	0.051 U
4-Chloroaniline					0.051 U
4-Chlorophenyl-phenylether	0.0142 U	0.00037 U	0.00037 U	0.00041 U	0.051 U
4-Methylphenol					0.051 U
4-Nitroaniline					0.051 U
4-Nitrophenol	0.125 U	0.0039 U	0.0067 J	0.0042 U	0.051 U
Acenaphthene	0.0091 U	0.00036 U	0.00036 U	0.0004 U	0.051 U
Acenaphthylene	0.0099 U	0.00034 U	0.00034 U	0.00037 U	0.051 U
Acetophenone					0.051 U
Aniline	3.17	4.21	6	3.86	3.8
Anthracene	0.0068 U	0.00042 U	0.00042 U	0.00046 U	0.051 U
Benzidine	0.0274 U	0.0047 U	0.0047 U	0.0052 U	
Benzo(a)anthracene	0.006 U	0.00044 U	0.00063 J	0.00048 U	0.051 U
Benzo(a)pyrene	0.0048 U	0.00075 U	0.00075 U	0.00082 U	0.051 U
Benzo(b)fluoranthene	0.0076 U	0.00064 U	0.00064 U	0.0007 U	0.051 U
Benzo(g,h,i)perylene	0.0338 U	0.0005 U	0.00084 U	0.00092 U	0.051 U
Benzo(k)fluoranthene	0.0046 U	0.00076 U	0.00076 U	0.00083 U	0.051 U
bis(2-Chloroethoxy) methane	0.0222 U	0.00038 U	0.00038 U	0.00041 U	0.051 U
bis(2-Chloroethyl) ether	0.0087 U	0.00033 U	0.00033 U	0.00037 U	0.051 U
bis(2-Ethylhexyl) phthalate		0.0005 U			0.051 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-C 6/3/2019	MH-C 6/25/2020	MH-C 6/2/2021	MH-C 6/21/2022	MH-C 6/6/2023
Semi Volatile Organic Compounds (con't)					
Butylbenzylphthalate	0.012 U	0.0004 U	0.0004 U	0.00044 U	0.051 U
Carbazole					0.051 U
Chrysene	0.0083 U	0.00047 U	0.00064 J	0.00051 U	0.051 U
Dibenzo(a,h)anthracene	0.0176 U	0.00093 U	0.00093 U	0.001 U	0.051 U
Dibenzofuran					0.051 U
Dichloroispropyl Ether	0.0082 U	0.00038 U	0.00038 U	0.00041 U	0.051 U
Diethylphthalate	0.007 U	0.00042 U	0.00042 U	0.0038	0.051 U
Dimethylphthalate	0.0088 U	0.00056 U	0.00056 U	0.00061 U	0.051 U *1
Di-n-butylphthalate	0.0084 U	0.00069 U	0.00069 U	0.00075 U	0.051 U
Di-n-octylphthalate	0.01 U	0.0005 U	0.00076 U	0.00083 U	0.051 U
Fluoranthene	0.0135 U	0.0004 U	0.0004 U	0.00043 U	0.051 U
Fluorene	0.0102 U	0.00038 U	0.00038 U	0.00041 U	0.051 U
Hexachloro-1,3-butadiene	0.0206 U	0.00046 U	0.00046 U	0.0005 U	
Hexachlorobenzene	0.0111 U	0.00035 U	0.00035 U	0.00038 U	0.051 U
Hexachlorocyclopentadiene	0.125 U	0.0022 U	0.0022 U	0.0024 U	0.15 U *1
Hexachloroethane	0.0094 U	0.00043 U	0.0005 U	0.00054 U	0.02 U *1
Indeno(1,2,3-cd)pyrene	0.0125 U	0.00088 U	0.00088 U	0.00096 U	0.051 U
Isophorone	0.0065 U	0.00039 U	0.00039 U	0.00043 U	0.051 U
Nitrobenzene	5.54	2.85	5.82	0.0489	0.051 U
N-Nitrosodimethylamine	0.0079 U	0.00031 U	0.00031 U	0.00034 U	
N-Nitroso-di-n-propylamine	0.0144 U	0.00042 U	0.00042 U	0.00046 U	
N-Nitrosodi-n-propylamine					0.051 U
N-Nitrosodiphenylamine/Diphenylamine	0.0128 U	0.00035 U	0.00035 U	0.00038 U	0.051 U
Pentachlorophenol	0.125 U	0.0034 U	0.0034 U	0.0038 U	0.051 U
Phenanthrene	0.0106 U	0.00078 J	0.00035 U	0.00038 U	0.051 U
Pyrene	0.0098 U	0.00041 U	0.00041 U	0.00045 U	0.051 U
1,2,4-Trichlorobenzene	0.0122 U	0.00038 U	0.00038 U	0.00072 U	0.0005 U
Hexachlorobutadiene					0.02 U *1
Naphthalene	0.0142 U	0.00072 J	0.00037 U	0.00041 U	0.02 U
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U	0.0005 U
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U	0.0005 U
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U	0.0005 U
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U		
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00058 U	0.00058 U	0.0005 U
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U	0.0005 U
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U		0.0005 U
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U		0.0005 U
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U	0.0005 U
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U	0.0005 U
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U	0.0005 U
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U	0.0005 U
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U	0.0005 U
2-Butanone (MEK)	0.0013 U	0.0013 U	0.00051 U	0.00051 U	0.005 U
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U	0.005 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-C 6/3/2019	MH-C 6/25/2020	MH-C 6/2/2021	MH-C 6/21/2022	MH-C 6/6/2023
Volatile Organic Compounds (con't)					
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U	0.005 U
Acetone	0.0024 J	0.0035 J	0.0023 J	0.0033 J	0.005 U
Benzene	0.0027	0.0029	0.0046	0.0023	0.0032
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U	0.0005 U
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U	0.001 U
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U	0.0005 U
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U	0.001 U
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U	0.0005 U
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U	0.0005 U
Chloroethane	0.00035 U	0.00035 U	0.00064 U	0.00064 U	0.0005 U
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U	0.0005 U
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U	0.0005 U
cis-1,2-Dichloroethene	0.00024 U	0.00024 U	0.0005 U	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U	0.0005 U
Cyclohexane	0.029	0.0253	0.0345		0.03 cn
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U	0.0005 U
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U	0.0005 U
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U	0.0005 U
Ethyl benzene	0.0043	0.0047	0.0044	0.0039	0.0047
Freon-113					0.0005 U cn
Isopropylbenzene					0.0084
Isopropylbenzene (Cumene)	0.0085	0.0072	0.0101	0.0063	
m&p-Xylene	0.02	0.0172	0.0187		
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U		0.001 U
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U	0.0005 U
Methylcyclohexane	0.0415	0.0238	0.056		0.04 cn
o-Xylene	0.006	0.0064	0.0067		
Phenol	0.0068 U	0.0003 U	0.001 U	0.0011 U	0.01 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U	0.0005 U
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U	0.0005 U
Toluene	0.0193	0.0165	0.0267	0.0104	0.0099
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U	0.0005 U
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U	0.0005 U
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U	0.0005 U
Vinyl chloride	0.00033 U	0.00033 U	0.00048 U	0.00048 U	0.0005 U
Xylenes (total)	0.026	0.0236	0.0255	0.0133	0.017
General Chemistry					
Total Suspended Solids	88	58	70	90	610

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-D 6/3/2019	MH-D 6/25/2020	MH-D 6/2/2021	MH-D 6/21/2022	MH-D 6/6/2023
Inorganic Compounds					
Arsenic	0.031	0.0309	0.0457	0.012	0.027
Iron	26.5	29.8	27.3	13.8	25
Manganese	2.7	2.87	2.77	2.55	2.7 ^2
Semi Volatile Organic Compounds					
1,1-Biphenyl					0.0052 U
2,4,5-Trichlorophenol		0.00034 U			0.0052 U
2,4,6-Trichlorophenol	0.00016 U	0.00033 U	0.00033 U	0.0166 U	0.0052 U
2,4-Dichlorophenol	0.00023 U	0.00033 U	0.00033 U	0.0165 U	0.0052 U
2,4-Dimethylphenol	0.0006 U	0.0006 U	0.0006 U	0.03 U	0.0052 U
2,4-Dinitrophenol	0.0025 U	0.005 U	0.005 U	0.248 U	0.01 U
2,4-Dinitrotoluene	0.0002 U	0.00035 U	0.00035 U	0.0174 U	0.0052 U
2,6-Dinitrotoluene	0.00032 U	0.00044 U	0.00044 U	0.0221 U	0.0052 U
2-Chloronaphthalene	0.00028 U	0.00033 U	0.00033 U	0.0165 U	0.0052 U
2-Chlorophenol	0.00018 U	0.00038 U	0.00038 U	0.0187 U	0.0052 U
2-Methylnaphthalene	0.00021 U				0.0052 U
2-Methylphenol					0.0052 U
2-Nitroaniline					0.0052 U
2-Nitrophenol	0.00027 U	0.00039 U	0.00041 J	0.0193 U	0.0052 U
3,3-Dichlorobenzidine	0.00016 U	0.00053 U	0.00053 U	0.0263 U	0.0052 U
3-Nitroaniline					0.0052 U
4,6-Dinitro-2-methylphenol	0.0019 U	0.0038 U	0.0038 U	0.189 U	0.01 U
4-Bromophenyl-phenylether	0.00017 U	0.00047 U	0.00047 U	0.0236 U	0.0052 U
4-Chloro-3-methylphenol	0.00019 U	0.00046 U	0.00046 U	0.0227 U	0.0052 U
4-Chloroaniline					0.0052 U
4-Chlorophenyl-phenylether	0.00028 U	0.00037 U	0.00037 U	0.0186 U	0.0052 U
4-Methylphenol					0.0052 U
4-Nitroaniline					0.0052 U
4-Nitrophenol	0.0025 U	0.0039 U	0.0039 U	0.192 U	0.0052 U
Acenaphthene	0.00018 U	0.00036 U	0.00036 U	0.0181 U	0.0052 U
Acenaphthylene	0.0002 U	0.00034 U	0.00034 U	0.017 U	0.0052 U
Acetophenone					0.0052 U
Aniline	0.135	0.113	0.323	0.0165 U	0.0052 U
Anthracene	0.00014 U	0.00042 U	0.00042 U	0.0209 U	0.0052 U
Benzidine	0.00055 U	0.0047 U	0.0047 U	0.235 U	
Benzo(a)anthracene	0.00012 U	0.00044 U	0.00044 U	0.0219 U	0.0052 U
Benzo(a)pyrene	0.000096 U	0.00075 U	0.00075 U	0.0372 U	0.0052 U
Benzo(b)fluoranthene	0.00015 U	0.00064 U	0.00064 U	0.032 U	0.0052 U
Benzo(g,h,i)perylene	0.00068 U	0.0005 U	0.00084 U	0.0419 U	0.0052 U
Benzo(k)fluoranthene	0.000093 U	0.00076 U	0.00076 U	0.0376 U	0.0052 U
bis(2-Chloroethoxy) methane	0.00044 U	0.00038 U	0.00038 U	0.0189 U	0.0052 U
bis(2-Chloroethyl) ether	0.00017 U	0.00033 U	0.00033 U	0.0166 U	0.0052 U
bis(2-Ethylhexyl) phthalate		0.0005 U			0.0052 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-D 6/3/2019	MH-D 6/25/2020	MH-D 6/2/2021	MH-D 6/21/2022	MH-D 6/6/2023
Semi Volatile Organic Compounds (con't)					
Butylbenzylphthalate	0.00024 U	0.0004 U	0.0004 U	0.02 U	0.0052 U
Carbazole					0.0052 U
Chrysene	0.00017 U	0.00047 U	0.00047 U	0.0234 U	0.0052 U
Dibenzo(a,h)anthracene	0.00035 U	0.00093 U	0.00093 U	0.0461 U	0.0052 U
Dibenzofuran					0.0052 U
Dichloroispropyl Ether	0.00016 U	0.00038 U	0.00038 U	0.0189 U	0.0052 U
Diethylphthalate	0.00014 U	0.00042 U	0.00042 U	0.0207 U	0.0052 U
Dimethylphthalate	0.00018 U	0.00056 U	0.00056 U	0.0278 U	0.0052 U *1
Di-n-butylphthalate	0.00017 U	0.00069 U	0.00069 U	0.0341 U	0.0052 U
Di-n-octylphthalate	0.0002 U	0.0005 U	0.00076 U	0.0376 U	0.0052 U
Fluoranthene	0.00027 U	0.0004 U	0.0004 U	0.0197 U	0.0052 U
Fluorene	0.0002 U	0.00038 U	0.00038 U	0.0187 U	0.0052 U
Hexachloro-1,3-butadiene	0.00041 U	0.00046 U	0.00046 U	0.0228 U	
Hexachlorobenzene	0.00022 U	0.00035 U	0.00035 U	0.0172 U	0.0052 U
Hexachlorocyclopentadiene	0.0025 U	0.0022 U	0.0022 U	0.11 U	0.016 U *1
Hexachloroethane	0.00019 U	0.00043 U	0.0005 U	0.0247 U	0.0021 U *1
Indeno(1,2,3-cd)pyrene	0.00025 U	0.00088 U	0.00088 U	0.0436 U	0.0052 U
Isophorone	0.00013 U	0.00039 U	0.00039 U	0.0195 U	0.0052 U
Nitrobenzene	0.0509	0.15	0.124	0.025 U	0.015
N-Nitrosodimethylamine	0.00016 U	0.00031 U	0.00031 U	0.0155 U	
N-Nitroso-di-n-propylamine	0.00029 U	0.00042 U	0.00042 U	0.021 U	
N-Nitrosodi-n-propylamine					0.0052 U
N-Nitrosodiphenylamine/Diphenylamine	0.00026 U	0.00035 U	0.00035 U	0.0173 U	0.0052 U
Pentachlorophenol	0.0025 U	0.0034 U	0.0034 U	0.171 U	0.0052 U
Phenanthrene	0.00021 U	0.00035 U	0.00035 U	0.0173 U	0.0052 U
Pyrene	0.0002 U	0.00041 U	0.00041 U	0.0205 U	0.0052 U
1,2,4-Trichlorobenzene	0.00024 U	0.00038 U	0.00038 U	0.00072 U	0.0005 U
Hexachlorobutadiene					0.0021 U *1
Naphthalene	0.00028 U	0.00037 U	0.00037 U	0.0186 U	0.0021 U
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U	0.0005 U
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U	0.0005 U
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U	0.0005 U
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U		
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00058 U	0.00058 U	0.0005 U
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U	0.0005 U
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U		0.0005 U
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U		0.0005 U
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U	0.0005 U
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U	0.0005 U
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U	0.0005 U
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U	0.0005 U
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U	0.0005 U
2-Butanone (MEK)	0.0013 U	0.0013 U	0.0017 J	0.0016 J	0.005 U
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U	0.005 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-D 6/3/2019	MH-D 6/25/2020	MH-D 6/2/2021	MH-D 6/21/2022	MH-D 6/6/2023
Volatile Organic Compounds (con't)					
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U	0.005 U
Acetone	0.0023 J	0.0032 J	0.006	0.0061	0.005 U
Benzene	0.0018	0.0013	0.0028	0.00058 U	0.0005 U
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U	0.0005 U
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U	0.001 U
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U	0.0005 U
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U	0.001 U
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U	0.0005 U
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U	0.0005 U
Chloroethane	0.00035 U	0.00035 U	0.00064 U	0.00064 U	0.0005 U
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U	0.0005 U
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U	0.0005 U
cis-1,2-Dichloroethene	0.00024 U	0.00024 U	0.0005 U	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U	0.0005 U
Cyclohexane	0.011	0.009	0.0067		0.0058
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U	0.0005 U
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U	0.0005 U
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U	0.0005 U
Ethyl benzene	0.00016 U	0.00016 U	0.00052 U	0.00052 U	0.0005 U
Freon-113					0.0005 U cn
Isopropylbenzene					0.0016
Isopropylbenzene (Cumene)	0.0013	0.00023 U	0.0004 U	0.0004 U	
m&p-Xylene	0.00033 U	0.00033 U	0.00093 U		
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U		0.001 U
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U	0.0005 U
Methylcyclohexane	0.0032	0.0026	0.0012		0.0016
o-Xylene	0.00018 U	0.00018 U	0.00047 U		
Phenol	0.00014 U	0.0003 U	0.001 U	0.0497 U	0.001 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U	0.0005 U
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U	0.0005 U
Toluene	0.0002 U	0.0002 U	0.00057 U	0.00057 U	0.0005 U
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U	0.0005 U
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U	0.0005 U
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U	0.0005 U
Vinyl chloride	0.00033 U	0.00033 U	0.00048 U	0.00048 U	0.0005 U
Xylenes (total)	0.00018 U	0.00018 U	0.00047 U	0.00047 U	0.001 U
General Chemistry					
Total Suspended Solids	52	26	73.6	540	57

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-E 6/3/2019	MH-E 6/25/2020	MH-E 6/2/2021	MH-E 6/21/2022
Inorganic Compounds				
Arsenic	0.0108	0.025	0.0261	0.0055 J
Iron	5.3	11.5	13.7	3.05
Manganese	0.656	2.13	2.07	0.0599
Semi Volatile Organic Compounds				
2,4,5-Trichlorophenol		0.00034 U		
2,4,6-Trichlorophenol	0.00016 U	0.00033 U	0.00032 U	0.00033 U
2,4-Dichlorophenol	0.00023 U	0.00033 U	0.00031 U	0.00032 U
2,4-Dimethylphenol	0.0006 U	0.0006 U	0.00057 U	0.00059 U
2,4-Dinitrophenol	0.0025 U	0.005 U	0.0047 U	0.0049 U
2,4-Dinitrotoluene	0.0002 U	0.00035 U	0.00033 U	0.00034 U
2,6-Dinitrotoluene	0.00032 U	0.00044 U	0.00042 U	0.00043 U
2-Chloronaphthalene	0.00028 U	0.00033 U	0.00031 U	0.00032 U
2-Chlorophenol	0.00018 U	0.00038 U	0.00035 U	0.00037 U
2-Methylnaphthalene	0.00021 U			
2-Nitrophenol	0.00027 U	0.00039 U	0.00037 U	0.00038 U
3,3-Dichlorobenzidine	0.00016 U	0.00053 U	0.0005 U	0.00052 U
4,6-Dinitro-2-methylphenol	0.0019 U	0.0038 U	0.0036 U	0.0037 U
4-Bromophenyl-phenylether	0.00017 U	0.00047 U	0.00045 U	0.00046 U
4-Chloro-3-methylphenol	0.00019 U	0.00046 U	0.00043 U	0.00045 U
4-Chlorophenyl-phenylether	0.00028 U	0.00037 U	0.00035 U	0.00036 U
4-Nitrophenol	0.0025 U	0.0039 U	0.0036 U	0.0038 U
Acenaphthene	0.00018 U	0.00055 J	0.00034 U	0.00043 J
Acenaphthylene	0.0002 U	0.00034 U	0.00032 U	0.00033 U
Aniline	0.0651	0.00033 U	0.00031 U	0.00032 U
Anthracene	0.00014 U	0.00042 U	0.0004 U	0.00041 U
Benzidine	0.00055 U	0.0047 U	0.0045 U	0.0046 U
Benzo(a)anthracene	0.00012 U	0.00044 U	0.00042 U	0.00043 U
Benzo(a)pyrene	0.000096 U	0.00075 U	0.0007 U	0.00073 U
Benzo(b)fluoranthene	0.00015 U	0.00064 U	0.00061 U	0.00063 U
Benzo(g,h,i)perylene	0.00068 U	0.0005 U	0.00079 U	0.00082 U
Benzo(k)fluoranthene	0.000093 U	0.00076 U	0.00071 U	0.00074 U
bis(2-Chloroethoxy) methane	0.00044 U	0.00038 U	0.00036 U	0.00037 U
bis(2-Chloroethyl) ether	0.00017 U	0.00033 U	0.00032 U	0.00033 U
bis(2-Ethylhexyl) phthalate		0.0017		
Butylbenzylphthalate	0.00024 U	0.0004 U	0.00038 U	0.00039 U
Chrysene	0.00017 U	0.00047 U	0.00044 U	0.00046 U
Dibenzo(a,h)anthracene	0.00035 U	0.00093 U	0.00087 U	0.0009 U
Dichloroispropyl Ether	0.00016 U	0.00038 U	0.00036 U	0.00037 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-E 6/3/2019	MH-E 6/25/2020	MH-E 6/2/2021	MH-E 6/21/2022
Semi Volatile Organic Compounds (con't)				
Diethylphthalate	0.00014 U	0.00042 U	0.00039 U	0.0031
Dimethylphthalate	0.00018 U	0.00056 U	0.00053 U	0.00055 U
Di-n-butylphthalate	0.00017 U	0.00069 U	0.00065 U	0.00067 U
Di-n-octylphthalate	0.0002 U	0.0005 U	0.00071 U	0.00074 U
Fluoranthene	0.00027 U	0.0004 U	0.00037 U	0.00039 U
Fluorene	0.0002 U	0.00064 J	0.00039 J	0.00049 J
Hexachloro-1,3-butadiene	0.00041 U	0.00046 U	0.00043 U	0.00045 U
Hexachlorobenzene	0.00022 U	0.00035 U	0.00033 U	0.00034 U
Hexachlorocyclopentadiene	0.0025 U	0.0022 U	0.0021 U	0.0022 U
Hexachloroethane	0.00019 U	0.00043 U	0.00047 U	0.00048 U
Indeno(1,2,3-cd)pyrene	0.00025 U	0.00088 U	0.00083 U	0.00086 U
Isophorone	0.00013 U	0.00039 U	0.00037 U	0.00038 U
Nitrobenzene	0.0821	0.0005 U	0.00047 U	0.00049 U
N-Nitrosodimethylamine	0.00016 U	0.00031 U	0.00029 U	0.0003 U
N-Nitroso-di-n-propylamine	0.00029 U	0.00042 U	0.0004 U	0.00041 U
N-Nitrosodiphenylamine/Diphenylamine	0.00026 U	0.00035 U	0.00033 U	0.00034 U
Pentachlorophenol	0.0025 U	0.0034 U	0.0032 U	0.0034 U
Phenanthrene	0.00021 U	0.00051 J	0.00033 U	0.00034 U
Pyrene	0.0002 U	0.00041 U	0.00039 U	0.0004 U
1,2,4-Trichlorobenzene	0.00024 U	0.00038 U	0.00036 U	0.00072 U
Naphthalene	0.00028 U	0.00037 U	0.00035 U	0.00036 U
Volatile Organic Compounds				
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U	
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00058 U	0.00058 U
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U	
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U	
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U
2-Butanone (MEK)	0.0013 U	0.0013 U	0.00051 U	0.00051 U
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U
Acetone	0.0016 U	0.0016 U	0.0019 U	0.0019 U
Benzene	0.00062 J	0.00022 U	0.00058 U	0.00058 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-E 6/3/2019	MH-E 6/25/2020	MH-E 6/2/2021	MH-E 6/21/2022
Volatile Organic Compounds (con't)				
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U
Chloroethane	0.00035 U	0.00035 U	0.00064 U	0.00064 U
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U
cis-1,2-Dichloroethene	0.00024 U	0.00024 U	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U
Cyclohexane	0.0068	0.0144	0.014	
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U
Ethyl benzene	0.00016 U	0.00016 U	0.00052 U	0.00052 U
Isopropylbenzene (Cumene)	0.0015	0.0112	0.0096	0.0099
m&p-Xylene	0.00033 U	0.00033 U	0.00093 U	
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U	
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U
Methylcyclohexane	0.0149	0.112	0.0784	
o-Xylene	0.00018 U	0.00018 U	0.00047 U	
Phenol	0.00014 U	0.0003 U	0.00094 U	0.00098 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U
Toluene	0.0002 U	0.0002 U	0.00057 U	0.00057 U
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U
Vinyl chloride	0.00033 U	0.00033 U	0.00048 U	0.00048 U
Xylenes (total)	0.00018 U	0.00018 U	0.00047 U	0.00047 U
General Chemistry				
Total Suspended Solids	22	16	170	36

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) Laboratory Analytical Report case narrative

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-E 6/3/2019	MH-E 6/25/2020	MH-E 6/2/2021	MH-E 6/21/2022

Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-F 6/3/2019	MH-F 6/25/2020	MH-F 6/2/2021	MH-F 6/21/2022	MH-F 6/6/2023
Inorganic Compounds					
Arsenic	0.0479	0.0421	0.0402	0.0496	0.047
Iron	35.1	32.6	32.2	34.8	34
Manganese	5.79	5.38	5.36	5.64	4.8
Semi Volatile Organic Compounds					
1,1-Biphenyl					0.0052 U
2,4,5-Trichlorophenol		0.00034 U			0.0052 U
2,4,6-Trichlorophenol	0.00016 U	0.00033 U	0.00032 U	0.00035 U	0.0052 U
2,4-Dichlorophenol	0.00023 U	0.00033 U	0.00031 U	0.00034 U	0.0052 U
2,4-Dimethylphenol	0.0006 U	0.0006 U	0.00057 U	0.00063 U	0.0052 U
2,4-Dinitrophenol	0.0025 U	0.005 U	0.0047 U	0.0052 U	0.01 U
2,4-Dinitrotoluene	0.0002 U	0.00035 U	0.00033 U	0.00036 U	0.0052 U
2,6-Dinitrotoluene	0.00032 U	0.00044 U	0.00042 U	0.00046 U	0.0052 U
2-Chloronaphthalene	0.00028 U	0.00033 U	0.00031 U	0.00034 U	0.0052 U
2-Chlorophenol	0.00018 U	0.00038 U	0.00035 U	0.00039 U	0.0052 U
2-Methylnaphthalene	0.00021 U				0.0052 U
2-Methylphenol					0.0052 U
2-Nitroaniline					0.0052 U
2-Nitrophenol	0.00027 U	0.00039 U	0.00037 U	0.0004 U	0.0052 U
3,3-Dichlorobenzidine	0.00016 U	0.00053 U	0.0005 U	0.00055 U	0.0052 U
3-Nitroaniline					0.0052 U
4,6-Dinitro-2-methylphenol	0.0019 U	0.0038 U	0.0036 U	0.004 U	0.01 U
4-Bromophenyl-phenylether	0.00017 U	0.00047 U	0.00045 U	0.00049 U	0.0052 U
4-Chloro-3-methylphenol	0.00019 U	0.00046 U	0.00043 U	0.00048 U	0.0052 U
4-Chloroaniline					0.0052 U
4-Chlorophenyl-phenylether	0.00028 U	0.00037 U	0.00035 U	0.00039 U	0.0052 U
4-Methylphenol					0.0052 U
4-Nitroaniline					0.0052 U
4-Nitrophenol	0.0025 U	0.0039 U	0.0036 U	0.004 U	0.0052 U
Acenaphthene	0.0016	0.0012	0.00089 J	0.0016	0.0052 U
Acenaphthylene	0.0002 U	0.00034 U	0.00032 U	0.00036 U	0.0052 U
Acetophenone					0.0052 U
Aniline	0.00021 U	0.00033 U	0.00031 U	0.00035 U	0.0052 U
Anthracene	0.00024 J	0.00042 U	0.0004 U	0.00044 U	0.0052 U
Benzidine	0.00055 U	0.0047 U	0.0045 U	0.0049 U	
Benzo(a)anthracene	0.00012 U	0.00044 U	0.00042 U	0.00046 U	0.0052 U
Benzo(a)pyrene	0.000096 U	0.00075 U	0.0007 U	0.00078 U	0.0052 U
Benzo(b)fluoranthene	0.00015 U	0.00064 U	0.00061 U	0.00067 U	0.0052 U
Benzo(g,h,i)perylene	0.00068 U	0.0005 U	0.00079 U	0.00088 U	0.0052 U
Benzo(k)fluoranthene	0.000093 U	0.00076 U	0.00071 U	0.00079 U	0.0052 U
bis(2-Chloroethoxy) methane	0.00044 U	0.00038 U	0.00036 U	0.00039 U	0.0052 U
bis(2-Chloroethyl) ether	0.00017 U	0.00033 U	0.00032 U	0.00035 U	0.0052 U
bis(2-Ethylhexyl) phthalate		0.0005 U			0.0052 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-F 6/3/2019	MH-F 6/25/2020	MH-F 6/2/2021	MH-F 6/21/2022	MH-F 6/6/2023
Semi Volatile Organic Compounds (con't)					
Butylbenzylphthalate	0.00024 U	0.0004 U	0.00038 U	0.00042 U	0.0052 U
Carbazole					0.0052 U
Chrysene	0.00017 U	0.00047 U	0.00044 U	0.00049 U	0.0052 U
Dibenzo(a,h)anthracene	0.00035 U	0.00093 U	0.00087 U	0.00096 U	0.0052 U
Dibenzofuran					0.0052 U
Dichloroispropyl Ether	0.00016 U	0.00038 U	0.00036 U	0.00039 U	0.0052 U
Diethylphthalate	0.00014 U	0.00042 U	0.00039 U	0.0031	0.0052 U
Dimethylphthalate	0.00018 U	0.00056 U	0.00053 U	0.00058 U	0.0052 U *1
Di-n-butylphthalate	0.00017 U	0.00069 U	0.00065 U	0.00071 U	0.0052 U
Di-n-octylphthalate	0.0002 U	0.0005 U	0.00071 U	0.00078 U	0.0052 U
Fluoranthene	0.00027 U	0.0004 U	0.00037 U	0.00041 U	0.0052 U
Fluorene	0.0019	0.0013	0.0011	0.0017	0.0052 U
Hexachloro-1,3-butadiene	0.00041 U	0.00046 U	0.00043 U	0.00048 U	
Hexachlorobenzene	0.00022 U	0.00035 U	0.00033 U	0.00036 U	0.0052 U
Hexachlorocyclopentadiene	0.0025 U	0.0022 U	0.0021 U	0.0023 U	0.016 U *1
Hexachloroethane	0.00019 U	0.00043 U	0.00047 U	0.00052 U	0.0021 U *1
Indeno(1,2,3-cd)pyrene	0.00025 U	0.00088 U	0.00083 U	0.00091 U	0.0052 U
Isophorone	0.00013 U	0.00039 U	0.00037 U	0.00041 U	0.0052 U
Nitrobenzene	0.00039 U	0.0005 U	0.00047 U	0.00052 U	0.0052 U
N-Nitrosodimethylamine	0.00016 U	0.00031 U	0.00029 U	0.00032 U	
N-Nitroso-di-n-propylamine	0.00029 U	0.00042 U	0.0004 U	0.00044 U	
N-Nitrosodi-n-propylamine					0.0052 U
N-Nitrosodiphenylamine/Diphenylamine	0.00026 U	0.00035 U	0.00033 U	0.00036 U	0.0052 U
Pentachlorophenol	0.0025 U	0.0034 U	0.0032 U	0.0036 U	0.0052 U
Phenanthrene	0.0023	0.0018	0.0012	0.0023	0.0052 U
Pyrene	0.0002 U	0.00041 U	0.00039 U	0.00043 U	0.0052 U
1,2,4-Trichlorobenzene	0.00024 U	0.00038 U	0.00036 U	0.00072 U	0.0005 U
Hexachlorobutadiene					0.0021 U *1
Naphthalene	0.00028 U	0.00037 U	0.00035 U	0.00039 U	0.0021 U
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U	0.0005 U
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U	0.0005 U
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U	0.0005 U
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U		
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00058 U	0.00058 U	0.0005 U
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U	0.0005 U
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U		0.0005 U
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U		0.0005 U
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U	0.0005 U
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U	0.0005 U
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U	0.0005 U
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U	0.0005 U
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U	0.0005 U
2-Butanone (MEK)	0.0013 U	0.0013 U	0.00051 U	0.0013 J	0.005 U
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U	0.005 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-F 6/3/2019	MH-F 6/25/2020	MH-F 6/2/2021	MH-F 6/21/2022	MH-F 6/6/2023
Volatile Organic Compounds (con't)					
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U	0.005 U
Acetone	0.0016 U	0.0016 U	0.0019 U	0.002 J	0.005 U
Benzene	0.0052	0.0059	0.0062	0.0063	0.0054
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U	0.0005 U
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U	0.001 U
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U	0.0005 U
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U	0.001 U
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U	0.0005 U
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U	0.0005 U
Chloroethane	0.00035 U	0.00035 U	0.00064 U	0.00064 U	0.0005 U
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U	0.0005 U
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U	0.0005 U
cis-1,2-Dichloroethene	0.00024 U	0.00024 U	0.0005 U	0.0005 U	0.0005 U
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U	0.0005 U
Cyclohexane	0.165	0.178	0.16		0.14 cn
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U	0.0005 U
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U	0.0005 U
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U	0.0005 U
Ethyl benzene	0.00016 U	0.00016 U	0.00052 U	0.00052 U	0.00051
Freon-113					0.0005 U cn
Isopropylbenzene					0.021
Isopropylbenzene (Cumene)	0.0219	0.0242	0.0256	0.0281	
m&p-Xylene	0.0026	0.0026	0.0023		
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U		0.001 U
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U	0.0005 U
Methylcyclohexane	0.159	0.176	0.132		0.16 cn
o-Xylene	0.00018 U	0.00018 U	0.00047 U		
Phenol	0.00014 U	0.0003 U	0.00094 U	0.001 U	0.001 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U	0.0005 U
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U	0.0005 U
Toluene	0.0012	0.0016	0.0014	0.0018	0.0012
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U	0.0005 U
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U	0.0005 U
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U	0.0005 U
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U	0.0005 U
Vinyl chloride	0.00033 U	0.00033 U	0.00048 U	0.00048 U	0.0005 U
Xylenes (total)	0.0026 J	0.0026 J	0.0023 J	0.0026	0.0024
General Chemistry					
Total Suspended Solids	44	38	40	12	31

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-G 6/3/2019	MH-G 6/25/2020	MH-G 6/2/2021	MH-G 6/21/2022	MH-G 6/6/2023
Inorganic Compounds					
Arsenic	0.0548	0.0516	0.0522	0.0519	0.062
Iron	29.1	28.8	28.3	29.4	30
Manganese	5.47	5.32	5.22	5.22	4.1
Semi Volatile Organic Compounds					
1,1-Biphenyl					0.0052 U
2,4,5-Trichlorophenol		0.00034 U			0.0052 U
2,4,6-Trichlorophenol	0.00016 U	0.00033 U	0.00032 U	0.00032 U	0.0052 U
2,4-Dichlorophenol	0.00023 U	0.00033 U	0.00031 U	0.00032 U	0.0052 U
2,4-Dimethylphenol	0.0006 U	0.0006 U	0.00057 U	0.00058 U	0.0052 U
2,4-Dinitrophenol	0.0025 U	0.005 U	0.0047 U	0.0048 U	0.01 U
2,4-Dinitrotoluene	0.0002 U	0.00035 U	0.00033 U	0.00034 U	0.0052 U
2,6-Dinitrotoluene	0.00032 U	0.00044 U	0.00042 U	0.00043 U	0.0052 U
2-Chloronaphthalene	0.00028 U	0.00033 U	0.00031 U	0.00032 U	0.0052 U
2-Chlorophenol	0.00018 U	0.00038 U	0.00035 U	0.00036 U	0.0052 U
2-Methylnaphthalene	0.00021 U				0.0052 U
2-Methylphenol					0.0052 U
2-Nitroaniline					0.0052 U
2-Nitrophenol	0.00027 U	0.00039 U	0.00037 U	0.00038 U	0.0052 U
3,3-Dichlorobenzidine	0.00016 U	0.00053 U	0.0005 U	0.00051 U	0.0052 U
3-Nitroaniline					0.0052 U
4,6-Dinitro-2-methylphenol	0.0019 U	0.0038 U	0.0036 U	0.0037 U	0.01 U
4-Bromophenyl-phenylether	0.00017 U	0.00047 U	0.00045 U	0.00046 U	0.0052 U
4-Chloro-3-methylphenol	0.00019 U	0.00046 U	0.00043 U	0.00044 U	0.0052 U
4-Chloroaniline					0.0052 U
4-Chlorophenyl-phenylether	0.00028 U	0.00037 U	0.00035 U	0.00036 U	0.0052 U
4-Methylphenol					0.0052 U
4-Nitroaniline					0.0052 U
4-Nitrophenol	0.0025 U	0.0039 U	0.0036 U	0.0038 U	0.0052 U
Acenaphthene	0.0023	0.0018	0.0015	0.0022	0.0052 U
Acenaphthylene	0.0002 U	0.00034 U	0.00032 U	0.00033 U	0.0052 U
Acetophenone					0.0052 U
Aniline	0.00021 U	0.00033 U	0.00031 U	0.00032 U	0.0052 U
Anthracene	0.00036 J	0.00042 U	0.0004 U	0.00041 U	0.0052 U
Benzidine	0.00055 U	0.0047 U	0.0045 U	0.0046 U	
Benzo(a)anthracene	0.00012 U	0.00044 U	0.00042 U	0.00043 U	0.0052 U
Benzo(a)pyrene	0.000096 U	0.00075 U	0.0007 U	0.00073 U	0.0052 U
Benzo(b)fluoranthene	0.00015 U	0.00064 U	0.00061 U	0.00063 U	0.0052 U
Benzo(g,h,i)perylene	0.00068 U	0.0005 U	0.00079 U	0.00082 U	0.0052 U
Benzo(k)fluoranthene	0.000093 U	0.00076 U	0.00071 U	0.00073 U	0.0052 U
bis(2-Chloroethoxy) methane	0.00044 U	0.00038 U	0.00036 U	0.00037 U	0.0052 U
bis(2-Chloroethyl) ether	0.00017 U	0.00033 U	0.00032 U	0.00032 U	0.0052 U
bis(2-Ethylhexyl) phthalate		0.0005 U			0.0052 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-G 6/3/2019	MH-G 6/25/2020	MH-G 6/2/2021	MH-G 6/21/2022	MH-G 6/6/2023
Semi Volatile Organic Compounds (con't)					
Butylbenzylphthalate	0.00024 U	0.0004 U	0.00038 U	0.00039 U	0.0052 U
Carbazole					0.0052 U
Chrysene	0.00017 U	0.00047 U	0.00044 U	0.00046 U	0.0052 U
Dibenzo(a,h)anthracene	0.00035 U	0.00093 U	0.00087 U	0.0009 U	0.0052 U
Dibenzofuran					0.0052 U
Dichloroispropyl Ether	0.00016 U	0.00038 U	0.00036 U	0.00037 U	0.0052 U
Diethylphthalate	0.00014 U	0.00042 U	0.00039 U	0.0026	0.0052 U
Dimethylphthalate	0.00018 U	0.00056 U	0.00053 U	0.00054 U	0.0052 U *1
Di-n-butylphthalate	0.00017 U	0.00069 U	0.00065 U	0.00067 U	0.0052 U
Di-n-octylphthalate	0.0002 U	0.0005 U	0.00071 U	0.00073 U	0.0052 U
Fluoranthene	0.00027 U	0.0004 U	0.00037 U	0.00038 U	0.0052 U
Fluorene	0.0031	0.0024	0.0021	0.0026	0.0052 U
Hexachloro-1,3-butadiene	0.00041 U	0.00046 U	0.00043 U	0.00044 U	
Hexachlorobenzene	0.00022 U	0.00035 U	0.00033 U	0.00034 U	0.0052 U
Hexachlorocyclopentadiene	0.0025 U	0.0022 U	0.0021 U	0.0021 U	0.016 U *1
Hexachloroethane	0.00019 U	0.00043 U	0.00047 U	0.00048 U	0.0021 U *1
Indeno(1,2,3-cd)pyrene	0.00025 U	0.00088 U	0.00083 U	0.00085 U	0.0052 U
Isophorone	0.00013 U	0.00039 U	0.00037 U	0.00038 U	0.0052 U
Nitrobenzene	0.00039 U	0.0005 U	0.00047 U	0.00049 U	0.0052 U
N-Nitrosodimethylamine	0.00016 U	0.00031 U	0.00029 U	0.0003 U	
N-Nitroso-di-n-propylamine	0.00029 U	0.00042 U	0.0004 U	0.00041 U	
N-Nitrosodi-n-propylamine					0.0052 U
N-Nitrosodiphenylamine/Diphenylamine	0.00026 U	0.00035 U	0.00033 U	0.00034 U	0.0052 U
Pentachlorophenol	0.0025 U	0.0034 U	0.0032 U	0.0033 U	0.0052 U
Phenanthrene	0.0037	0.0032	0.0023	0.0028	0.0052 U
Pyrene	0.0002 U	0.00041 U	0.00039 U	0.0004 U	0.0052 U
1,2,4-Trichlorobenzene	0.00024 U	0.00038 U	0.00036 U	0.00072 U	0.001 U
Hexachlorobutadiene					0.0021 U *1
Naphthalene	0.00028 U	0.00037 U	0.00035 U	0.00036 U	0.0021 U
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U	0.001 U
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U	0.001 U
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U	0.001 U
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U		
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00058 U	0.00058 U	0.001 U
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U	0.001 U
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U		0.001 U
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U		0.001 U
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U	0.001 U
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U	0.001 U
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U	0.001 U
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U	0.001 U
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U	0.001 U
2-Butanone (MEK)	0.0013 U	0.0013 U	0.00051 U	0.00051 U	0.01 U
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U	0.01 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-G 6/3/2019	MH-G 6/25/2020	MH-G 6/2/2021	MH-G 6/21/2022	MH-G 6/6/2023
Volatile Organic Compounds (con't)					
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U	0.01 U
Acetone	0.0022 J	0.0016 U	0.0019 U	0.0024 J	0.01 U
Benzene	0.0121	0.0149	0.0158	0.0125	0.011
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U	0.001 U
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U	0.002 U
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U	0.001 U
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U	0.002 U
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U	0.001 U
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U	0.001 U
Chloroethane	0.00035 U	0.00035 U	0.00064 U	0.00064 U	0.001 U
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U	0.001 U
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U	0.001 U
cis-1,2-Dichloroethene	0.00024 U	0.00024 U	0.0005 U	0.0005 U	0.001 U
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U	0.001 U
Cyclohexane	0.297	0.329	0.246		0.27
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U	0.001 U
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U	0.001 U
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U	0.001 U
Ethyl benzene	0.0066	0.0078	0.0075	0.0042	0.0062
Freon-113					0.001 U cn
Isopropylbenzene					0.032
Isopropylbenzene (Cumene)	0.0389	0.0475	0.0409	0.044	
m&p-Xylene	0.0078	0.0075	0.0063		
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U		0.002 U
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U	0.001 U
Methylcyclohexane	0.413	0.462	0.433		0.42
o-Xylene	0.001	0.0011	0.0011		
Phenol	0.00014 U	0.0003 U	0.00094 U	0.00097 U	0.001 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U	0.001 U
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U	0.001 U
Toluene	0.0041	0.0048	0.0041	0.0041	0.003
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U	0.001 U
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U	0.001 U
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U	0.001 U
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U	0.001 U
Vinyl chloride	0.00033 U	0.00033 U	0.00048 U	0.00048 U	0.001 U
Xylenes (total)	0.0088	0.0086	0.0074	0.0056	0.007
General Chemistry					
Total Suspended Solids	48	24	42	48	24

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-H 6/3/2019	MH-H 6/25/2020	MH-H 6/2/2021	MH-H 6/21/2022	MH-H 6/6/2023
Inorganic Compounds					
Arsenic	0.0257	0.0081 U	0.0334	0.0179	0.028
Iron	17.9	3.71	26.4	13.6	20
Manganese	2.91	0.655	4.41	2.23	3.5 ^2
Semi Volatile Organic Compounds					
1,1-Biphenyl					0.0052 U
2,4,5-Trichlorophenol		0.00034 U			0.0052 U
2,4,6-Trichlorophenol	0.00078 U	0.00033 U	0.00032 U	0.00033 U	0.0052 U
2,4-Dichlorophenol	0.0012 U	0.00033 U	0.00031 U	0.00032 U	0.0052 U
2,4-Dimethylphenol	0.003 U	0.0006 U	0.00057 U	0.00059 U	0.0052 U
2,4-Dinitrophenol	0.0125 U	0.005 U	0.0047 U	0.0049 U	0.01 U
2,4-Dinitrotoluene	0.001 U	0.00035 U	0.00033 U	0.00034 U	0.0052 U
2,6-Dinitrotoluene	0.0016 U	0.00044 U	0.00042 U	0.00043 U	0.0052 U
2-Chloronaphthalene	0.0014 U	0.00033 U	0.00031 U	0.00032 U	0.0052 U
2-Chlorophenol	0.0009 U	0.00038 U	0.00035 U	0.00037 U	0.0052 U
2-Methylnaphthalene	0.0011 U				0.0052 U
2-Methylphenol					0.0052 U
2-Nitroaniline					0.0052 U
2-Nitrophenol	0.0013 U	0.00039 U	0.00037 U	0.00038 U	0.0052 U
3,3-Dichlorobenzidine	0.00082 U	0.00053 U	0.0005 U	0.00052 U	0.0052 U
3-Nitroaniline					0.0052 U
4,6-Dinitro-2-methylphenol	0.0095 U	0.0038 U	0.0036 U	0.0037 U	0.01 U
4-Bromophenyl-phenylether	0.00087 U	0.00047 U	0.00045 U	0.00046 U	0.0052 U
4-Chloro-3-methylphenol	0.00095 U	0.00046 U	0.00043 U	0.00045 U	0.0052 U
4-Chloroaniline					0.0052 U
4-Chlorophenyl-phenylether	0.0014 U	0.00037 U	0.00035 U	0.00036 U	0.0052 U
4-Methylphenol					0.0052 U
4-Nitroaniline					0.0052 U
4-Nitrophenol	0.0125 U	0.0039 U	0.0036 U	0.0038 U	0.0052 U
Acenaphthene	0.00091 U	0.0013	0.0018	0.0021	0.0052 U
Acenaphthylene	0.00099 U	0.00034 U	0.00032 U	0.00033 U	0.0052 U
Acetophenone					0.0052 U
Aniline	0.001 U	0.00033 U	0.00031 U	0.00032 U	0.0052 U
Anthracene	0.00068 U	0.00042 U	0.0004 U	0.00041 U	0.0052 U
Benzidine	0.0027 U	0.0047 U	0.0045 U	0.0046 U	
Benzo(a)anthracene	0.0006 U	0.00044 U	0.00042 U	0.00043 U	0.0052 U
Benzo(a)pyrene	0.00048 U	0.00075 U	0.0007 U	0.00073 U	0.0052 U
Benzo(b)fluoranthene	0.00076 U	0.00064 U	0.00061 U	0.00063 U	0.0052 U
Benzo(g,h,i)perylene	0.0034 U	0.0005 U	0.00079 U	0.00082 U	0.0052 U
Benzo(k)fluoranthene	0.00046 U	0.00076 U	0.00071 U	0.00074 U	0.0052 U
bis(2-Chloroethoxy) methane	0.0022 U	0.00038 U	0.00036 U	0.00037 U	0.0052 U
bis(2-Chloroethyl) ether	0.00087 U	0.00033 U	0.00032 U	0.00033 U	0.0052 U
bis(2-Ethylhexyl) phthalate		0.0015			0.0052 U

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-H 6/3/2019	MH-H 6/25/2020	MH-H 6/2/2021	MH-H 6/21/2022	MH-H 6/6/2023
Semi Volatile Organic Compounds (con't)					
Butylbenzylphthalate	0.0012 U	0.0004 U	0.00038 U	0.00039 U	0.0052 U
Carbazole					0.0052 U
Chrysene	0.00083 U	0.00047 U	0.00044 U	0.00046 U	0.0052 U
Dibenzo(a,h)anthracene	0.0018 U	0.00093 U	0.00087 U	0.0009 U	0.0052 U
Dibenzofuran					0.0052 U
Dichloroispropyl Ether	0.00082 U	0.00038 U	0.00036 U	0.00037 U	0.0052 U
Diethylphthalate	0.0007 U	0.00042 U	0.00039 U	0.003	0.0052 U
Dimethylphthalate	0.00088 U	0.00056 U	0.00053 U	0.00055 U	0.0052 U *1
Di-n-butylphthalate	0.00084 U	0.00069 U	0.00065 U	0.00067 U	0.0052 U
Di-n-octylphthalate	0.001 U	0.0005 U	0.00071 U	0.00074 U	0.0052 U
Fluoranthene	0.0014 U	0.0004 U	0.00037 U	0.00039 U	0.0052 U
Fluorene	0.001 U	0.0019	0.0026	0.0027	0.0052 U
Hexachloro-1,3-butadiene	0.0021 U	0.00046 U	0.00043 U	0.00045 U	
Hexachlorobenzene	0.0011 U	0.00035 U	0.00033 U	0.00034 U	0.0052 U
Hexachlorocyclopentadiene	0.0125 U	0.0022 U	0.0021 U	0.0022 U	0.016 U *1
Hexachloroethane	0.00094 U	0.00043 U	0.00047 U	0.00048 U	0.0021 U *1
Indeno(1,2,3-cd)pyrene	0.0012 U	0.00088 U	0.00083 U	0.00086 U	0.0052 U
Isophorone	0.00065 U	0.00039 U	0.00037 U	0.00038 U	0.0052 U
Nitrobenzene	0.0019 U	0.0005 U	0.00047 U	0.00049 U	0.0052 U
N-Nitrosodimethylamine	0.00079 U	0.00031 U	0.00029 U	0.0003 U	
N-Nitroso-di-n-propylamine	0.0014 U	0.00042 U	0.0004 U	0.00041 U	
N-Nitrosodi-n-propylamine					0.0052 U
N-Nitrosodiphenylamine/Diphenylamine	0.0013 U	0.00035 U	0.00033 U	0.00034 U	0.0052 U
Pentachlorophenol	0.0125 U	0.0034 U	0.0032 U	0.0034 U	0.0052 U
Phenanthrene	0.0011 U	0.0024	0.0027	0.0025	0.0052 U
Pyrene	0.00098 U	0.00041 U	0.00039 U	0.0004 U	0.0052 U
1,2,4-Trichlorobenzene	0.0012 U	0.00038 U	0.00036 U	0.00072 U	0.1 U cn
Hexachlorobutadiene					0.0021 U *1
Naphthalene	0.0014 U	0.00037 U	0.00035 U	0.00036 U	0.0021 U
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.00022 U	0.00022 U	0.00032 U	0.00032 U	0.1 U cn
1,1,2,2-Tetrachloroethane	0.00032 U	0.00032 U	0.00039 U	0.00039 U	0.1 U cn
1,1,2-Trichloroethane	0.00023 U	0.00023 U	0.00049 U	0.00049 U	0.1 U cn
1,1,2-Trichlorotrifluoroethane (CFC 113)	0.00023 U	0.00023 U	0.00031 U		
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00058 U	0.00058 U	0.1 U cn
1,1-Dichloroethene	0.00023 U	0.00023 U	0.00054 U	0.00054 U	0.1 U cn
1,2-Dibromo-3-chloropropane	0.00047 U	0.00047 U	0.00066 U		0.1 U cn
1,2-Dibromoethane	0.00024 U	0.00024 U	0.0004 U		0.1 U cn
1,2-Dichlorobenzene	0.00017 U	0.00017 U	0.00058 U	0.00058 U	0.1 U cn
1,2-Dichloroethane	0.00019 U	0.00019 U	0.0004 U	0.0004 U	0.1 U cn
1,2-Dichloropropane	0.00043 U	0.00043 U	0.00045 U	0.00045 U	0.1 U cn
1,3-Dichlorobenzene	0.00023 U	0.00023 U	0.00046 U	0.00046 U	0.1 U cn
1,4-Dichlorobenzene	0.00025 U	0.00025 U	0.00048 U	0.00048 U	0.1 U cn
2-Butanone (MEK)	0.0013 U	0.0013 U	0.00051 U	0.00051 U	1 U cn
2-Hexanone	0.0006 U	0.0006 U	0.00074 U	0.00074 U	1 U cn

Please see page 25 for notes.

Table 3

2019 through 2023 Groundwater Extraction Manhole Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH-H 6/3/2019	MH-H 6/25/2020	MH-H 6/2/2021	MH-H 6/21/2022	MH-H 6/6/2023
Volatile Organic Compounds (con't)					
4-Methyl-2-pentanone	0.00039 U	0.00039 U	0.00036 U	0.00036 U	1 U cn
Acetone	0.0025 J	0.0016 U	0.0019 U	0.0022 J	1 U cn
Benzene	0.0122	0.0139	0.0139	0.0014	0.1 U cn
Bromodichloromethane	0.00022 U	0.00022 U	0.00048 U	0.00048 U	0.1 U cn
Bromoform	0.00043 U	0.00043 U	0.00061 U	0.00061 U	0.2 U cn
Bromomethane	0.00043 U	0.00043 U	0.00074 U	0.00074 U	0.1 U cn
Carbon disulfide	0.00025 U	0.00025 U	0.00057 U	0.00057 U	0.2 U cn
Carbon tetrachloride	0.0002 U	0.0002 U	0.00033 U	0.00033 U	0.1 U cn
Chlorobenzene	0.00018 U	0.00018 U	0.00057 U	0.00057 U	0.1 U cn
Chloroethane	0.00035 U	0.00035 U	0.00064 U	0.00064 U	0.1 U cn
Chloroform	0.0002 U	0.0002 U	0.00056 U	0.00056 U	0.1 U cn
Chloromethane	0.0002 U	0.0002 U	0.00063 U	0.00063 U	0.1 U cn
cis-1,2-Dichloroethene	0.00024 U	0.00024 U	0.0005 U	0.0005 U	0.1 U cn
cis-1,3-Dichloropropene	0.00026 U	0.00026 U	0.00046 U	0.00046 U	0.1 U cn
Cyclohexane	0.203	0.228	0.199		0.18 cn
Dibromochloromethane	0.00029 U	0.00029 U	0.0005 U	0.0005 U	0.1 U cn
Dichlorodifluoromethane	0.00024 U	0.00024 U	0.00037 U	0.00037 U	0.1 U cn
Dichloromethane (Methylene chloride)	0.0003 U	0.0003 U	0.00077 U	0.00077 U	0.1 U cn
Ethyl benzene	0.0205	0.0215	0.0189	0.0011	0.1 U cn
Freon-113					0.1 U cn
Isopropylbenzene					0.1 U cn
Isopropylbenzene (Cumene)	0.0393	0.0445	0.0387	0.0037	
m&p-Xylene	0.0081	0.0072	0.0052		
Methyl Acetate	0.00057 U	0.00057 U	0.00099 U		0.2 U cn
Methyl tert-butyl ether (MTBE)	0.00028 U	0.00028 U	0.00051 U	0.00051 U	0.1 U cn
Methylcyclohexane	0.22	0.268	0.243		0.26 cn
o-Xylene	0.00018 U	0.001	0.00047 U		
Phenol	0.00068 U	0.0003 U	0.00094 U	0.00098 U	0.001 U
Styrene	0.00022 U	0.00022 U	0.00057 U	0.00057 U	0.1 U cn
Tetrachloroethene	0.00028 U	0.00028 U	0.00053 U	0.00053 U	0.1 U cn
Toluene	0.0038	0.0044	0.0035	0.00057 U	0.1 U cn
trans-1,2-Dichloroethene	0.00019 U	0.00019 U	0.00056 U	0.00056 U	0.1 U cn
trans-1,3-Dichloropropene	0.00036 U	0.00036 U	0.0005 U	0.0005 U	0.1 U cn
Trichloroethene	0.00022 U	0.00022 U	0.00047 U	0.00047 U	0.1 U cn
Trichlorofluoromethane	0.00012 U	0.00012 U	0.00023 U	0.00023 U	0.1 U cn
Vinyl chloride	0.00033 U	0.00033 U	0.00048 U	0.00048 U	0.1 U cn
Xylenes (total)	0.0081	0.0082	0.0052	0.00047 U	0.2 U cn
General Chemistry					
Total Suspended Solids	34	36	42	26	44

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *1, etc.) see Laboratory Analytical Report case narrative

Table 4

2015 to 2023 Average Groundwater Extraction Manhole Concentrations
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MH A									MH B								
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2015	2016	2017	2018	2019	2020	2021	2022	2023
Iron (mg/L)	119.9	38.525	34.05	33.55	30.3	48.5	32.3	36	32	126.0	40.8	34.7	35.35	32.6	32.3	33.6	32.2	30
Aniline (mg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.10	2.58	3.16	1.78	1.78	2.06	1.44	1.56	1.1
Nitrobenzene (mg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.05	4.025	2.48	1.15	0.393	2.18	0.515	1.2	2.3
Benzene (mg/L)	0.0203	0.0240	0.0305	0.0159	0.0117	0.0155	0.0126	0.0144	0.0092	0.0099	0.0131	0.0245	0.0170	0.0116	0.0114	0.0084	0.0068	0.0046
Ethyl benzene (mg/L)	0.0007	0.0006	0.0009	ND	ND	ND	ND	ND	ND	0.0016	0.0014	0.0037	0.0006	ND	ND	ND	ND	0.00052
Toluene (mg/L)	0.0025	0.0025	0.0034	0.0027	0.0019	0.0023	0.0022	0.0024	0.0018	0.0065	0.0049	0.0065	0.0037	0.0037	0.0039	0.003	0.004	0.0027
Total Xylenes (mg/L)	0.0049	0.0041	0.0047	0.0037	0.003	0.0031	0.0025	0.0022	0.0027	0.0143	0.0102	0.0095	0.0031	0.0056	0.006	0.0042	0.0047	0.0038

Parameter	MH C									MH D								
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2015	2016	2017	2018	2019	2020	2021	2022	2023
Iron (mg/L)	50.73	43.93	43.75	38.70	42.2	43.8	44.7	40.3	83	17.43	18.95	18.95	25.25	26.5	29.8	27.3	13.8	25
Aniline (mg/L)	4.73	5.25	7.90	5.94	3.17	4.21	6.00	3.86	3.8	0.0001	0.0025	0.0016	0.3485	0.135	0.113	0.323	ND	ND
Nitrobenzene (mg/L)	6.68	6.33	5.43	8.79	5.54	2.85	5.82	0.0489	ND	ND	ND	ND	0.2385	0.0509	0.15	0.124	ND	0.015
Benzene (mg/L)	0.0095	0.0040	0.0061	0.0039	0.0027	0.0029	0.0046	0.0023	0.0032	ND	ND	ND	0.00305	0.0018	0.0013	0.0028	ND	ND
Ethyl benzene (mg/L)	0.0048	0.0040	0.0063	0.0033	0.0043	0.0047	0.0044	0.0039	0.0047	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene (mg/L)	0.0198	0.0200	0.0275	0.0243	0.0193	0.0165	0.0267	0.0104	0.0099	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes (mg/L)	0.0290	0.0240	0.0376	0.0203	0.026	0.0236	0.0255	0.0133	0.017	ND	ND	ND	ND	ND	ND	ND	ND	ND

Parameter	MH E									MH F								
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2015	2016	2017	2018	2019	2020	2021	2022	2023
Iron (mg/L)	22.5	21.525	19.7	25.25	5.3	11.5	13.7	3.05	*	38.03	37.30	37.10	35.45	35.1	32.6	32.2	34.8	34
Aniline (mg/L)	0.0013	0.0010	ND	0.0013	0.0651	ND	ND	ND	*	ND	0.0001	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene (mg/L)	ND	0.0004	ND	0.0047	0.0821	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND	0.0063	ND
Benzene (mg/L)	0.0003	0.0008	0.0003	0.0006	0.00062	ND	ND	ND	*	0.0078	0.0073	0.0074	0.0074	0.0052	0.0059	0.0062	ND	0.0054
Ethyl benzene (mg/L)	ND	ND	ND	ND	ND	ND	ND	ND	*	0.0010	0.0004	0.0005	ND	ND	ND	ND	ND	0.00051
Toluene (mg/L)	0.0002	0.0002	0.0001	ND	ND	ND	ND	ND	*	0.0020	0.0018	0.0019	0.0018	0.0012	0.0016	0.0014	0.0018	0.0012
Total Xylenes (mg/L)	0.0003	0.0003	0.0002	ND	ND	ND	ND	ND	*	0.0042	0.0037	0.0031	0.0023	0.0026	0.0026	0.0023	0.0026	0.0024

Parameter	MH G									MH H								
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2015	2016	2017	2018	2019	2020	2021	2022	2023
Iron (mg/L)	29.05	28.1	29.4	30.2	29.1	28.8	28.3	29.4	30	19.85	33.98	16.65	1.80	17.9	3.71	26.4	13.6	20
Aniline (mg/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene (mg/L)	ND	ND	ND	ND	ND	ND	ND	0.0125	ND	ND	ND	ND	ND	ND	ND	ND	0.0014	ND
Benzene (mg/L)	0.0107	0.0098	0.0143	0.0179	0.0121	0.0149	0.0158	ND	0.011	0.0070	0.0125	0.0097	0.0004	0.0122	0.0139	0.0139	ND	ND
Ethyl benzene (mg/L)	0.0115	0.0071	0.0101	0.0080	0.0066	0.0078	0.0075	0.0042	0.0062	0.0040	0.0180	0.0093	ND	0.0205	0.0215	0.0189	0.0011	ND
Toluene (mg/L)	0.0032	0.0028	0.0042	0.0053	0.0041	0.0048	0.0041	0.0041	0.003	0.0014	0.0035	0.0027	ND	0.0038	0.0044	0.0035	ND	ND
Total Xylenes (mg/L)	0.0091	0.0078	0.0095	0.0084	0.0088	0.0086	0.0074	0.0056	0.007	0.0044	0.0101	0.0054	ND	0.0081	0.0082	0.0052	ND	ND

Notes:
ND = results are non-detect
Starting 2019 sampling frequency is annual
*** -** MH E 2023 Samples not collected due to inoperable pump equipment, unable to operate prior to sampling.

Table 5

2019 to 2023 OU2 Groundwater Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MW-55R 6/5/2019	MW-55R 6/17/2020	MW-55R 6/16/2021	MW-55R 6/21/2022	MW-55R 6/7/2023	MW-71 6/5/2019	MW-71 6/17/2020	MW-71 6/17/2021	MW-71 6/21/2022	MW-71 6/7/2023
Semi Volatile Organic Compounds										
2-Methylnaphthalene	0.00021 U	0.00034 U	0.00032 U	0.00034 U	0.00051 U	0.00021 U	0.00034 U	0.00032 U	0.00033 U	0.00051 U
Acenaphthene	0.0013 J	0.0012 J	0.00088 J	0.00052 J	0.00051 U	0.00018 U	0.00026 U	0.00025 U	0.00025 U	0.00051 U
Aniline	0.00021 U	0.00033 U	0.00031 U	0.00033 U	0.0051 U F2	0.00021 U	0.00033 U	0.00031 U	0.00032 U	0.0051 U
Fluorene	0.0014 J	0.0013 J	0.00077 J	0.0005 J	0.00051 U	0.0002 U	0.00057 J	0.00035 U	0.00036 U	0.00051 U
Nitrobenzene	0.00039 U	0.0005 U	0.00047 U	0.0005 U	0.002 U	0.00039 U	0.0005 U	0.00047 U	0.00049 U	0.002 U
Phenanthrene	0.00093 J	0.00082 J	0.00033 U	0.00035 U	0.00051 U	0.00021 U	0.00035 U	0.00033 U	0.00034 U	0.00051 U
Volatile Organic Compounds										
1,1-Dichloroethane	0.00019 U	0.00019 U	0.00019 U	0.00058 U	0.001 U	0.00019 U	0.00019 U	0.00019 U	0.00058 U	0.001 U
Benzene	0.0066	0.0034	0.0111	0.00058 U	0.001 U	0.00022 U	0.00022 U	0.00022 U	0.00058 U	0.001 U
Chlorobenzene		0.00018 U	0.00018 U				0.00018 U	0.00018 U		
Chloroethane	0.00035 U			0.00064 U	0.001 U	0.00035 U			0.00064 U	0.001 U
Ethyl benzene	0.00016 U	0.00016 U	0.0049	0.00052 U	0.001 U	0.00016 U	0.00016 U	0.00016 U	0.00052 U	0.001 U
m&p-Xylene	0.0019 J				0.005 U	0.00033 U				0.005 U
o-Xylene	0.00018 U				0.001 U	0.00018 U				0.001 U
Toluene	0.0013	0.0002 U	0.0024	0.00057 U	0.001 U	0.0002 U	0.0002 U	0.0002 U	0.00057 U	0.001 U
Vinyl chloride	0.00033 U	0.00033 U	0.00033 U	0.00048 U	0.001 U	0.00033 U	0.00033 U	0.00033 U	0.00048 U	0.001 U
Xylenes (total)	0.0019 J	0.0011 J	0.0026 J	0.00047 U	0.001 U	0.00018 U	0.00018 U	0.00018 U	0.00047 U	0.001 U
Naphthalene	0.00028 U	0.00037 U	0.00035 U	0.00037 U	0.00051 U	0.00028 U	0.00037 U	0.00035 U	0.00036 U	0.00051 U

Please see page 2 for notes.

Table 5

2019 to 2023 OU2 Groundwater Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MW-78 6/5/2019	MW-78 6/16/2020	MW-78 6/16/2021	MW-78 6/20/2022	MW-78 6/6/2023	OW-04 6/5/2019	OW-04 6/16/2020	OW-04 6/16/2021	OW-04 6/21/2022	OW-04 6/7/2023
Semi Volatile Organic Compounds										
2-Methylnaphthalene	0.00021 U	0.00034 U	0.00034 U	0.00033 U	0.00051 U	0.00021 U	0.00034 U	0.016 U	0.00033 U	0.00051 U
Acenaphthene	0.00018 U	0.00026 U	0.00026 U	0.00026 U	0.00051 U	0.00018 U	0.00026 U	0.0124 U	0.00026 U	0.00051 U
Aniline	0.00021 U	0.00033 U	0.00033 U	0.00033 U	0.0051 U	0.008	1.42	0.583	2.6	0.57
Fluorene	0.0002 U	0.00038 U	0.00038 U	0.00037 U	0.00051 U	0.0002 U	0.00038 U	0.0177 U	0.00037 U	0.00051 U
Nitrobenzene	0.00039 U	0.0005 U	0.0005 U	0.00077 J	0.002 U	0.0383	3.6	1.11	5.44	3.9
Phenanthrene	0.00021 U	0.00035 U	0.00035 U	0.00034 U	0.00051 U	0.00021 U	0.00035 U	0.0164 U	0.00034 U	0.00051 U
Volatile Organic Compounds										
1,1-Dichloroethane	0.0021	0.0029	0.0016	0.0065	0.01	0.00019 U	0.00019 U	0.00019 U	0.00058 U	0.001 U
Benzene	0.0026	0.0033	0.00098 J	0.002	0.0063	0.00022 U	0.00022 U	0.00022 U	0.00058 U	0.001 U
Chlorobenzene		0.00018 U	0.00018 U				0.00018 U	0.00018 U		
Chloroethane	0.00035 U			0.00064 U	0.001 U	0.00035 U			0.00064 U	0.001 U
Ethyl benzene	0.00016 U	0.00016 U	0.00016 U	0.00052 U	0.001 U	0.00016 U	0.00016 U	0.00016 U	0.00052 U	0.001 U
m&p-Xylene	0.00033 U				0.005 U	0.00033 U				0.005 U
o-Xylene	0.00018 U				0.001 U	0.00018 U				0.001 U
Toluene	0.0002 U	0.0002 U	0.0002 U	0.00057 U	0.001 U	0.0002 U	0.0036	0.0015	0.0071	0.0045
Vinyl chloride	0.0022	0.0011	0.00033 U	0.0025	0.0033	0.00033 U	0.00033 U	0.00033 U	0.00048 U	0.001 U
Xylenes (total)	0.00018 U	0.00018 U	0.00018 U	0.00047 U	0.001 U	0.00018 U	0.00018 U	0.00018 U	0.0012 J	0.001 U
Naphthalene	0.00028 U	0.00037 U	0.00037 U	0.00037 U	0.00051 U	0.00028 U	0.00037 U	0.0176 U	0.00036 U	0.00051 U

Notes:
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (F2, cn, *1, etc.) see Laboratory Analytical Report case narrative

Please see page 2 for notes.

Table 6

2023 OU-2 Groundwater Field Duplicate Sample Comparison
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MW78-0623	DUP1-0623	MWR8-0623	DUP2-0623
Inorganic Compounds				
Aluminum			0.3 U	0.3 U
Antimony			0.05 U	0.05 U
Arsenic			0.05 U	0.05 U
Barium			0.099	0.098
Beryllium			0.005 U	0.005 U
Cadmium			0.005 U	0.005 U
Calcium			56	55
Chromium			0.029	0.025
Cobalt			0.005 U	0.005 U
Copper			0.02 U	0.02 U
Iron			2	1.9
Lead			0.015 U	0.015 U
Magnesium			23	23
Manganese			1.1	1.1
Mercury			0.0002 U	0.0002 U
Nickel			0.028	0.027
Potassium			2.4	2.4
Selenium			0.05 U	0.05 U
Silver			0.01 U	0.01 U
Sodium			11	11
Thallium			0.03 U	0.03 U
Vanadium			0.01 U	0.01 U
Zinc			0.02 U	0.02 U
Semi Volatile Organic Compounds				
2-Methylnaphthalene	0.00051 U	0.00051 U		
Acenaphthene	0.00051 U	0.00051 U		
Aniline	0.0051 U	0.0051 U		
Fluorene	0.00051 U	0.00051 U		
Nitrobenzene	0.002 U	0.002 U		
Phenanthrene	0.00051 U	0.00051 U		
Volatile Organic Compounds				
1,1,1-Trichloroethane			0.001 U	0.001 U
1,1,2,2-Tetrachloroethane			0.001 U	0.001 U
1,1,2-Trichloroethane			0.001 U	0.001 U
1,1-Dichloroethane	0.01	0.0093	0.001 U	0.001 U
1,1-Dichloroethene			0.001 U cn	0.001 U cn
1,2-Dibromo-3-chloropropane			0.005 U	0.005 U
1,2-Dibromoethane			0.001 U	0.001 U
1,2-Dichlorobenzene			0.005 U	0.005 U
1,2-Dichloroethane			0.001 U	0.001 U
1,2-Dichloropropane			0.001 U	0.001 U
1,3-Dichlorobenzene			0.005 U	0.005 U

Please see page 2 for notes.

Table 6

2023 OU-2 Groundwater Field Duplicate Sample Comparison
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	MW78-0623	DUP1-0623	MWR8-0623	DUP2-0623
Volatile Organic Compounds (con't)				
1,4-Dichlorobenzene			0.005 U	0.005 U
2-Butanone (MEK)			0.01 U	0.01 U
2-Hexanone			0.01 U	0.01 U
4-Methyl-2-pentanone			0.01 U	0.01 U
Acetone			0.02 U	0.02 U
Benzene	0.0063	0.0068	0.001 U	0.001 U
Bromodichloromethane			0.001 U	0.001 U
Bromoform			0.004 U	0.004 U
Bromomethane			0.001 U	0.001 U
Carbon disulfide			0.005 U	0.005 U
Carbon tetrachloride			0.001 U	0.001 U
Chlorobenzene			0.001 U	0.001 U
Chloroethane	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform			0.001 U	0.001 U
Chloromethane			0.002 U	0.002 U
cis-1,2-Dichloroethene			0.001 U	0.001 U
cis-1,3-Dichloropropene			0.001 U	0.001 U
Cyclohexane			0.005 U	0.005 U
Dibromochloromethane			0.001 U	0.001 U
Dichlorodifluoromethane			0.001 U cn	0.001 U cn
Dichloromethane (Methylene chloride)			0.001 U	0.001 U
Ethyl benzene	0.001 U	0.001 U	0.001 U	0.001 U
Freon-113			0.01 U *- cn	0.01 U *- cn
Isopropylbenzene			0.005 U	0.005 U
m&p-Xylene	0.005 U	0.005 U		
Methyl Acetate			0.005 U	0.005 U
Methyl tert-butyl ether (MTBE)			0.001 U	0.001 U
Methylcyclohexane			0.005 U cn	0.005 U cn
o-Xylene	0.001 U	0.001 U		
Styrene			0.005 U	0.005 U
Tetrachloroethene			0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene			0.002 U	0.002 U
trans-1,3-Dichloropropene			0.001 U	0.001 U
Trichloroethene			0.001 U	0.001 U
Trichlorofluoromethane			0.001 U cn	0.001 U cn
Vinyl chloride	0.0033	0.0031	0.001 U cn	0.001 U cn
Xylenes (total)	0.001 U	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene			0.005 U	0.005 U
Naphthalene	0.00051 U	0.00051 U		

Notes:
J - Estimated Value
U - Concentration not detected at specified detection limit
Qualifier definitions (cn,*-, etc.) Laboratory Analytical Report case narrative

Please see page 2 for notes.

Table 7

2023 Field Equipment Blank Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	EB1-0623
Inorganic Compounds	
Aluminum	0.3 U
Antimony	0.05 U
Arsenic	0.05 U
Barium	0.005 U
Beryllium	0.005 U
Cadmium	0.005 U
Calcium	0.5 U
Chromium	0.015 U
Cobalt	0.005 U
Copper	0.02 U
Iron	0.2 U
Lead	0.015 U
Magnesium	0.1 U
Manganese	0.011
Mercury	0.0002 U
Nickel	0.01 U
Potassium	0.5 U
Selenium	0.05 U
Silver	0.01 U
Sodium	1 U
Thallium	0.03 U
Vanadium	0.01 U
Zinc	0.02 U
Pesticides	
Atrazine	0.0053 U
Semi Volatile Organic Compounds	
1,1-Biphenyl	0.0021 U
2,4,5-Trichlorophenol	0.0021 U
2,4,6-Trichlorophenol	0.0021 U
2,4-Dichlorophenol	0.0021 U
2,4-Dimethylphenol	0.011 U
2,4-Dinitrophenol	0.032 U
2,4-Dinitrotoluene	0.0053 U
2,6-Dinitrotoluene	0.0021 U
2-Chloronaphthalene	0.0011 U
2-Chlorophenol	0.0021 U
2-Methylnaphthalene	0.00053 U
2-Methylphenol	0.0021 U
2-Nitroaniline	0.0053 U
2-Nitrophenol	0.0053 U
3,3-Dichlorobenzidine	0.011 U
3-Nitroaniline	0.0053 U
4,6-Dinitro-2-methylphenol	0.022 U
4-Bromophenyl-phenylether	0.0021 U
4-Chloro-3-methylphenol	0.0053 U

Please see page 3 for notes.

Table 7

2023 Field Equipment Blank Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	EB1-0623
Semi Volatile Organic Compounds (con't)	
4-Chloroaniline	0.011 U
4-Chlorophenyl-phenylether	0.0021 U
4-Methylphenol	0.0021 U
4-Nitroaniline	0.0032 U
4-Nitrophenol	0.032 U
Acenaphthene	0.00053 U
Acenaphthylene	0.00053 U
Acetophenone	0.0053 U
Anthracene	0.00053 U
Benzaldehyde	0.0053 U
Benzo(a)anthracene	0.00053 U
Benzo(a)pyrene	0.00053 U
Benzo(b)fluoranthene	0.00053 U
Benzo(g,h,i)perylene	0.00053 U
Benzo(k)fluoranthene	0.00053 U
bis(2-Chloroethoxy) methane	0.0021 U
bis(2-Chloroethyl) ether	0.0021 U
bis(2-Ethylhexyl) phthalate	0.0053 U
Butylbenzylphthalate	0.0053 U
Caprolactam	0.0074 U
Carbazole	0.0021 U
Chrysene	0.00053 U
Dibenzo(a,h)anthracene	0.00053 U
Dibenzofuran	0.0021 U
Dichloroispropyl Ether	0.0021 U
Diethylphthalate	0.0053 U
Dimethylphthalate	0.0053 U
Di-n-butylphthalate	0.0053 U
Di-n-octylphthalate	0.012 U
Fluoranthene	0.00053 U
Fluorene	0.00053 U
Hexachlorobenzene	0.00053 U
Hexachlorocyclopentadiene	0.012 U
Hexachloroethane	0.0053 U
Indeno(1,2,3-cd)pyrene	0.00053 U
Isophorone	0.0021 U
Nitrobenzene	0.0021 U
N-Nitrosodi-n-propylamine	0.0021 U
N-Nitrosodiphenylamine/Diphenylamine	0.0021 U
Pentachlorophenol	0.0053 U
Phenanthrene	0.00053 U
Pyrene	0.00053 U
1,2,4-Trichlorobenzene	0.005 U
Hexachlorobutadiene	0.0021 U
Naphthalene	0.00053 U

Please see page 3 for notes.

Table 7

2023 Field Equipment Blank Analytical Results
Former Sinclair Refinery Site
Wellsville, New York
(mg/L)

Parameter	EB1-0623
Volatile Organic Compounds	
1,1,1-Trichloroethane	0.001 U
1,1,2,2-Tetrachloroethane	0.001 U
1,1,2-Trichloroethane	0.001 U
1,1-Dichloroethane	0.001 U
1,1-Dichloroethene	0.001 U
1,2-Dibromo-3-chloropropane	0.005 U
1,2-Dibromoethane	0.001 U
1,2-Dichlorobenzene	0.005 U
1,2-Dichloroethane	0.001 U
1,2-Dichloropropane	0.001 U
1,3-Dichlorobenzene	0.005 U
1,4-Dichlorobenzene	0.005 U
2-Butanone (MEK)	0.01 U
2-Hexanone	0.01 U
4-Methyl-2-pentanone	0.01 U
Acetone	0.02 U
Benzene	0.001 U
Bromodichloromethane	0.001 U
Bromoform	0.004 U
Bromomethane	0.001 U
Carbon disulfide	0.005 U cn
Carbon tetrachloride	0.001 U
Chlorobenzene	0.001 U
Chloroethane	0.001 U
Chloroform	0.001 U
Chloromethane	0.002 U
cis-1,2-Dichloroethene	0.001 U
cis-1,3-Dichloropropene	0.001 U
Cyclohexane	0.005 U
Dibromochloromethane	0.001 U
Dichlorodifluoromethane	0.001 U
Dichloromethane (Methylene chloride)	0.001 U cn
Ethyl benzene	0.001 U
Freon-113	0.01 U
Isopropylbenzene	0.005 U
Methyl Acetate	0.005 U cn
Methyl tert-butyl ether (MTBE)	0.001 U
Methylcyclohexane	0.005 U
Phenol	0.0021 U
Styrene	0.005 U
Tetrachloroethene	0.001 U
Toluene	0.001 U
trans-1,2-Dichloroethene	0.002 U
trans-1,3-Dichloropropene	0.001 U
Trichloroethene	0.001 U
Trichlorofluoromethane	0.001 U
Vinyl chloride	0.001 U
Xylenes (total)	0.001 U

Notes:
J - Estimated Value
U - Concentration not detected at specified detection limit.
Qualifier definitions (cn, etc.) Laboratory Analytical Report case narrative

Table 8

2023 Sludge Drying Bed Sample Results
Former Sinclair Refinery Site
Wellsville, New York

Parameter	Units	SDB3/4A-0323 3/29/2023	SDB3/4B-0323 3/29/2023
Field Parameters			
pH, Laboratory (Std. Units)	S.U.	7	7
Temperature (deg. C)	Degrees C	21.1	21.7
Inorganic Compounds			
Arsenic	ug/L	20 U	21
Barium	ug/L	2300	2500
Cadmium	ug/L	5 U	5 U
Chromium	ug/L	20 U	20 U
Lead	ug/L	5 U	5 U
Mercury	mg/L	0.0002 U	0.0002 U
Selenium	ug/L	10 U	10 U
Silver	ug/L	5 U	5 U
PCB's			
Aroclor-1016	ug/Kg	44 U cn	43 U cn
Aroclor-1221	ug/Kg	44 U cn	43 U cn
Aroclor-1232	ug/Kg	44 U cn	43 U cn
Aroclor-1242	ug/Kg	44 U cn	43 U cn
Aroclor-1248	ug/Kg	44 U cn	43 U cn
Aroclor-1254	ug/Kg	44 U cn	43 U cn
Aroclor-1260	ug/Kg	44 U cn	43 U cn
Pesticides & Herbicides			
2,4-D	mg/L	0.05 U	0.05 U
2,4,5-TC (Silvex)	mg/L	0.005 U	0.005 U
Chlordane	mg/L	0.01 U cn	0.01 U cn
Endrin	mg/L	0.0006 U cn	0.0006 U cn
gamma-BHC (Lindane)	mg/L	0.0004 U cn	0.0004 U cn
Heptachlor	mg/L	0.0004 U cn	0.0004 U cn
Heptachlor epoxide	mg/L	0.0004 U cn	0.0004 U cn
Methoxychlor	mg/L	0.0022 U cn	0.0022 U cn
Toxaphene	mg/L	0.02 U cn	0.02 U cn

Please see page 2 for notes.

Table 8

2023 Sludge Drying Bed Sample Results
Former Sinclair Refinery Site
Wellsville, New York

Parameter	Units	SDB3/4A-0323 3/29/2023	SDB3/4B-0323 3/29/2023
Semi Volatile Organic Compounds			
2,4,5-Trichlorophenol	mg/L	0.01 U	0.01 U
2,4,6-Trichlorophenol	mg/L	0.01 U	0.01 U
2,4-Dinitrotoluene	mg/L	0.025 U	0.025 U
2-Methylphenol	mg/L	0.01 U	0.01 U
4-Methylphenol	mg/L	0.01 U	0.01 U
Hexachlorobutadiene	mg/L	0.01 U	0.01 U
Hexachlorobenzene	mg/L	0.0025 U	0.0025 U
Hexachloroethane	mg/L	0.025 U	0.025 U
Nitrobenzene	mg/L	0.01 U	0.01 U
Pentachlorophenol	mg/L	0.025 U	0.025 U
Volatile Organic Compounds			
1,1-Dichloroethene	mg/L	0.02 U	0.02 U
1,2-Dichloroethane	mg/L	0.02 U	0.02 U
1,4-Dichlorobenzene	mg/L	0.01 U	0.01 U
2-Butanone (MEK)	mg/L	0.2 U	0.2 U
Benzene	mg/L	0.02 U	0.02 U
Carbon tetrachloride	mg/L	0.02 U	0.02 U
Chlorobenzene	mg/L	0.02 U	0.02 U
Chloroform	mg/L	0.02 U	0.02 U
Pyridine	mg/L	0.025 U	0.025 U
Tetrachloroethene	mg/L	0.02 U	0.02 U
Trichloroethene	mg/L	0.02 U	0.02 U
Vinyl chloride	mg/L	0.02 U	0.02 U
General Chemistry			
Corrosivity	NONE	no	no
Ignitability	Degrees F	160 > cn	160 > cn
Reactive Cyanide	mg/Kg	59 U	59 U
Reactive Sulfide	mg/Kg	160 U	160 U

Notes:
J - Estimated value
U - Concentration not detected at specified detection limit
cn - See Analytical Report Case Narrative

Please see page 2 for notes.

Table 9

2023 SPDES Analytical Results
Former Sinclair Refinery Site
Wellsville, NY
(mg/L)

Parameter	Cascade Splitter - Treatment System Influent												Discharge Limits mg/L
	1/3/2023	2/6/2023	3/6/2023	4/3/2023	5/2/2023	6/7/2023	7/5/2023	8/2/2023	9/6/2023	10/3/2023	11/6/2023	12/4/2023	
Inorganic Compounds													
Aluminum						0.1 U							0.1
Arsenic	0.073	0.052	0.056	0.073	0.047	0.0894	0.077	0.063	0.089	0.099	0.064	0.042	0.036
Barium						0.585							1
Iron	32	30	32	32	30	29.2	28	27	31	32	29	29	0.3
Magnesium						7.79							35
Manganese	0.091	3.8	4.3	4.1	4.4	4.56	4.4	4.2	3.4	47	5.3	4.4	0.3
Semi Volatile Organic Compounds													
2-Methylnaphthalene	0.0054 U	0.0051 U cn	0.0051 U	0.005 U	0.0051 U	0.000205 U cn	0.0051 U	0.0052 U *+	0.0051 U	0.005 U	0.005 U	0.005 U	0.042
Acenaphthene	0.0054 U	0.0051 U cn	0.0051 U	0.005 U	0.0051 U	0.000706 J cn	0.0051 U	0.0052 U	0.0051 U	0.005 U	0.005 U	0.005 U	0.01
Aniline	0.18	0.18 cn	0.15 *1	0.071	0.42	0.0771 cn	0.1	0.0052 U	1.1	0.17	0.078	0.034	0.01
Fluorene	0.0054 U	0.0051 U cn	0.0051 U	0.005 U	0.0051 U	0.000902 J cn	0.0051 U	0.0052 U	0.0051 U	0.005 U	0.005 U	0.005 U	0.01
Nitrobenzene	0.17	0.024 cn	0.23	0.13	0.29	0.206 cn	0.26	0.15	0.4	0.018	0.017	0.037	0.005
Phenanthrene	0.0054 U	0.0051 U cn	0.0051 U	0.005 U	0.0051 U	0.000932 J cn	0.0051 U	0.0052 U	0.0051 U	0.005 U	0.005 U	0.005 U	0.01
Naphthalene	0.0022 U	0.002 U cn	0.002 U	0.002 U	0.002 U	0.000307 U cn	0.002 U	0.0021 U	0.002 U	0.002 U	0.002 U	0.002 U	0.01
Volatile Organic Compounds													
1,1-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005
2-Butanone (MEK)						0.0007 U							50
Benzene	0.0057	0.0041	0.0054	0.0084	0.0071	0.00742	0.0075	0.0055	0.0032	0.0078	0.0066	0.0037	0.005
Chloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00044 U	0.001 U	0.001 U	0.0019	0.001 U	0.001 U	0.001 U	0.005
Ethyl benzene	0.001	0.0017	0.0015	0.0025	0.003	0.00173	0.0023	0.0018	0.001 U	0.0011	0.0011	0.001 U	0.005
m&p-Xylene						0.00275							
o-Xylene						0.000708 J							
Toluene	0.0017	0.0014	0.0018	0.0027	0.0031	0.00199	0.0024	0.0023	0.0022	0.0021	0.0021	0.0013	0.005
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.007
Xylenes (total)	0.002	0.0021	0.0021	0.0032	0.0049	0.00346	0.0033	0.0031	0.0018	0.0028	0.0035	0.002	0.015
General Chemistry													
Ammonia Nitrogen						0.519 J							
Biochemical Oxygen Demand						5.2							5
Chloride						102							250
Nitrate Nitrogen						0.25 U							
Nitrite Nitrogen						0.25 U							0.02
Phosphorus						0.58							0.02
Total Dissolved Solids						161 cn							200
Total Kjeldahl Nitrogen						1.45							
Total Suspended Solids	44	43	47	56	46	48.6	57	46	70	40	44	36	10

Notes: Discharge Limitations provided in Effluent Limitations and Monitoring Requirements of August 3, 2009 correspondence from NYSDEC to Atlantic Richfield.
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *, +, etc.) Laboratory Analytical Report case narrative
Cascade Splitter = Wetland Treatment System Influent
Wetland System Discharge = Treated Effluent (Outfall 001)

Table 9

2023 SPDES Analytical Results
Former Sinclair Refinery Site
Wellsville, NY
(mg/L)

Parameter	Cascade Splitter - Treatment System Effluent												Discharge Limits mg/L
	1/3/2023	2/6/2023	3/6/2023	4/3/2023	5/2/2023	6/7/2023	7/5/2023	8/2/2023	9/6/2023	10/3/2023	11/6/2023	12/4/2023	
Inorganic Compounds													
Aluminum						0.1 U							0.1
Arsenic	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.016 U	0.0022	0.002 U	0.0027	0.0022	0.002 U	0.002 U	0.036
Barium						0.211							1
Iron	0.28	0.05 U	0.17	0.056	0.098	0.321	0.66	0.56	0.78	0.66	0.21	0.13	0.3
Magnesium						8.89							35
Manganese	0.1	0.066	0.027	0.02	0.1	1.76	5.1 ^2	4	3.7	3.7 ^2	1.8	0.45	0.3
Semi Volatile Organic Compounds													
2-Methylnaphthalene	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.000202 U d	0.0051 U	0.0051 U *+	0.005 U	0.0051 U cn	0.005 U	0.005 U	0.042
Acenaphthene	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.000252 U d	0.0051 U	0.0051 U cn	0.005 U	0.0051 U cn	0.005 U	0.005 U	0.01
Aniline	0.0053 U	0.0052 U	0.0051 U *1	0.0051 U	0.0052 U	0.000504 U d	0.0051 U	0.0051 U cn	0.005 U	0.0051 U cn	0.005 U	0.005 U	0.01
Fluorene	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.000202 U d	0.0051 U	0.0051 U cn	0.005 U	0.0051 U cn	0.005 U	0.005 U	0.01
Nitrobenzene	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.000504 U d	0.0051 U	0.0051 U cn	0.005 U	0.0051 U cn	0.005 U	0.005 U	0.005
Phenanthrene	0.0053 U	0.0052 U	0.0051 U	0.0051 U	0.0052 U	0.000202 U d	0.0051 U	0.0051 U cn	0.005 U	0.0051 U cn	0.005 U	0.005 U	0.01
Naphthalene	0.0021 U	0.0021 U	0.002 U	0.002 U	0.0021 U	0.000303 U d	0.002 U	0.002 U cn	0.002 U	0.002 U cn	0.002 U	0.002 U	0.01
Volatile Organic Compounds													
1,1-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005
2-Butanone (MEK)						0.0007 U							50
Benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00025 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005
Chloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00044 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005
Ethyl benzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005
m&p-Xylene						0.0003 U							
o-Xylene						0.0002 U							
Toluene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005
Vinyl chloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.007
Xylenes (total)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.015
General Chemistry													
Ammonia Nitrogen						0.366 J							
Biochemical Oxygen Demand						2.71							5
Chloride						120							250
Nitrate Nitrogen						0.25 U							
Nitrite Nitrogen						0.25 U							0.02
Phosphorus						0.1 U							0.02
Total Dissolved Solids						209 cn							200
Total Kjeldahl Nitrogen						0.659 J							
Total Suspended Solids	3 U	3 U	3 U	3 U	3 U	1 U	3 U	3 U	3 U	3 U	3 U	3 U	10

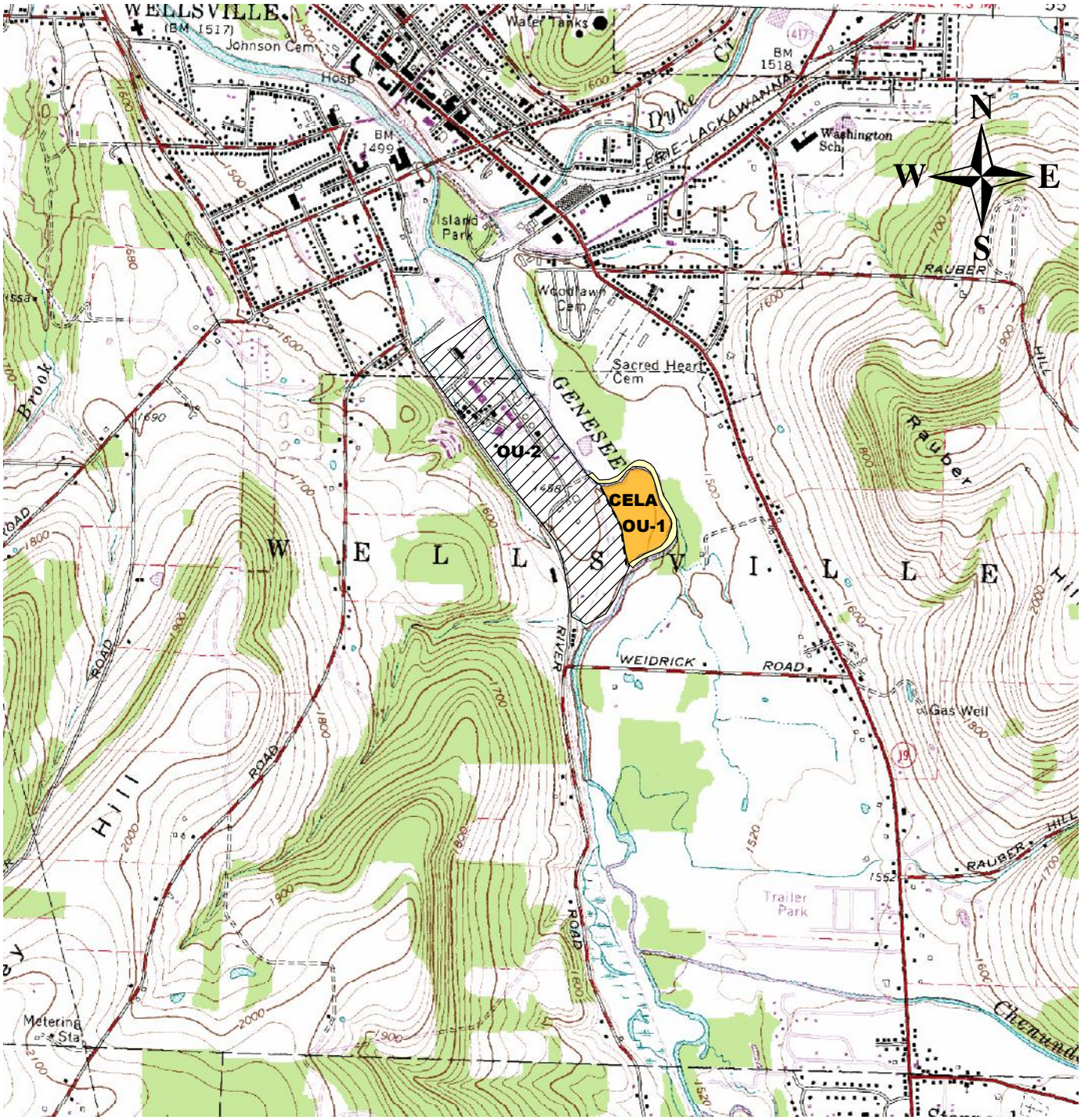
Notes: Discharge Limitations provided in Effluent Limitations and Monitoring Requirements of August 3, 2009 correspondence from NYSDEC to Atlantic Richfield.
U - Analyte not detected at the detection limit shown
J - Estimated value
Qualifier definitions (cn, *, +, etc.) Laboratory Analytical Report case narrative

Cascade Splitter = Wetland Treatment System Influent
Wetland System Discharge = Treated Effluent (Outfall 001)

FIGURES

- **Figure 1 – Site Location**
- **Figure 2 – CELA Features**
- **Figure 3 – Groundwater Extraction & Wetland Treatment System**
- **Figure 4 – LNAPL Thickness 1997 - 2023**
- **Figure 5 – Monitoring Well and Piezometer Locations**

Site Location



Legend

- Approximate OU-2 Area
- Approximate CELA Area
- Approximate River Channelization Area

Source: Wellsville South New York
USGS 7.5 Minute Topographic Quadrangle, 1965
Photorevised 1978

2,000 1,000 0 2,000 Feet

1 inch = 2,000 feet

ON-SITE TECHNICAL SERVICES, INC.
72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	1
PROJECT	Wellsville Sinclair
DOCUMENT	Annual Report
FILE NO.	Fig_1

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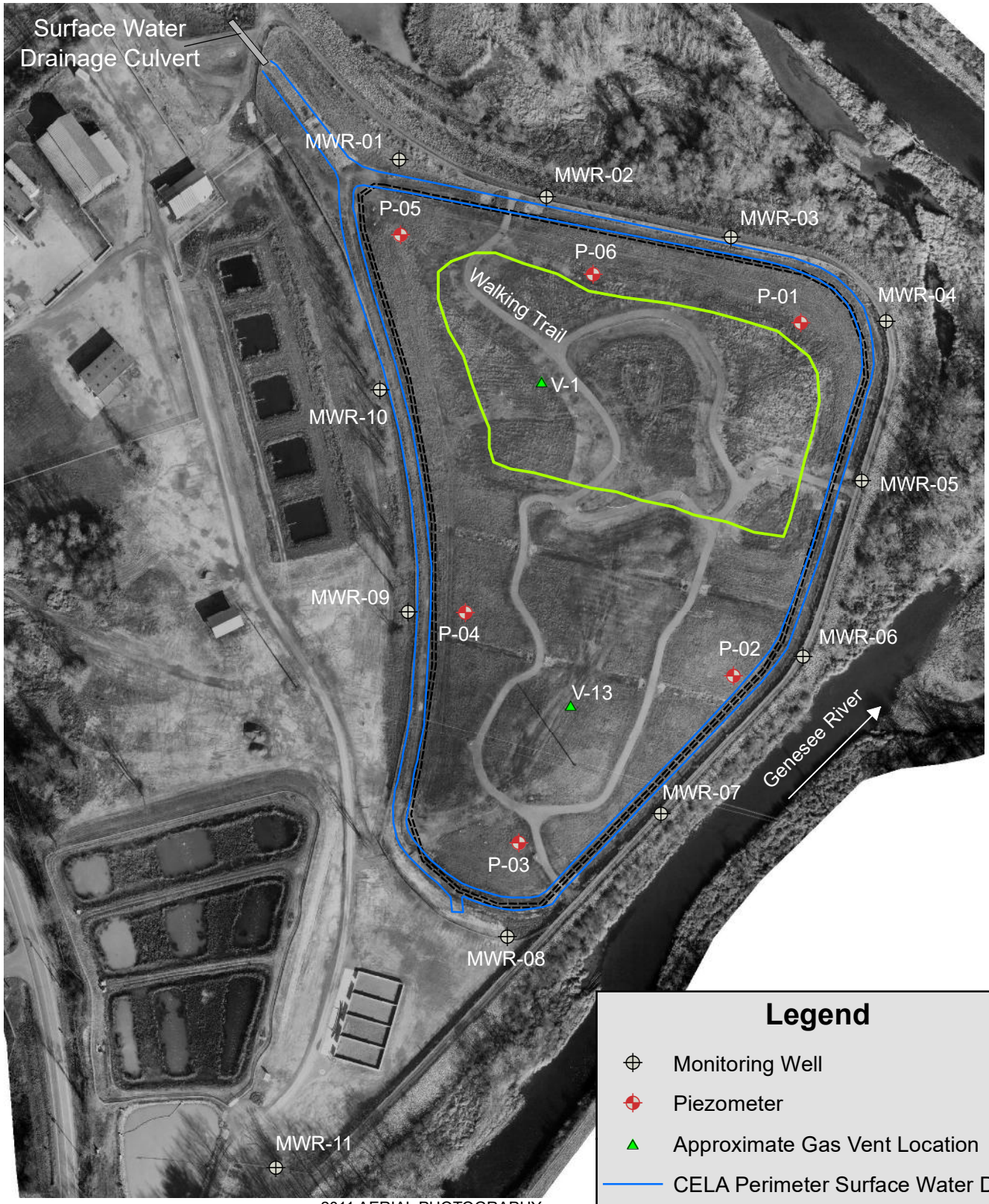
CELA FEATURES



Legend

- Monitoring Well
- Piezometer
- Approximate Gas Vent Location
- CELA Perimeter Surface Water Drain
- Approximate Slurry Wall Alignment
- Approximate CELA Re-Use Area

ON-SITE TECHNICAL SERVICES, INC.
72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	2
PROJECT	Wellsville Sinclair
DOCUMENT	Annual Report
FILE NO.	Fig_2

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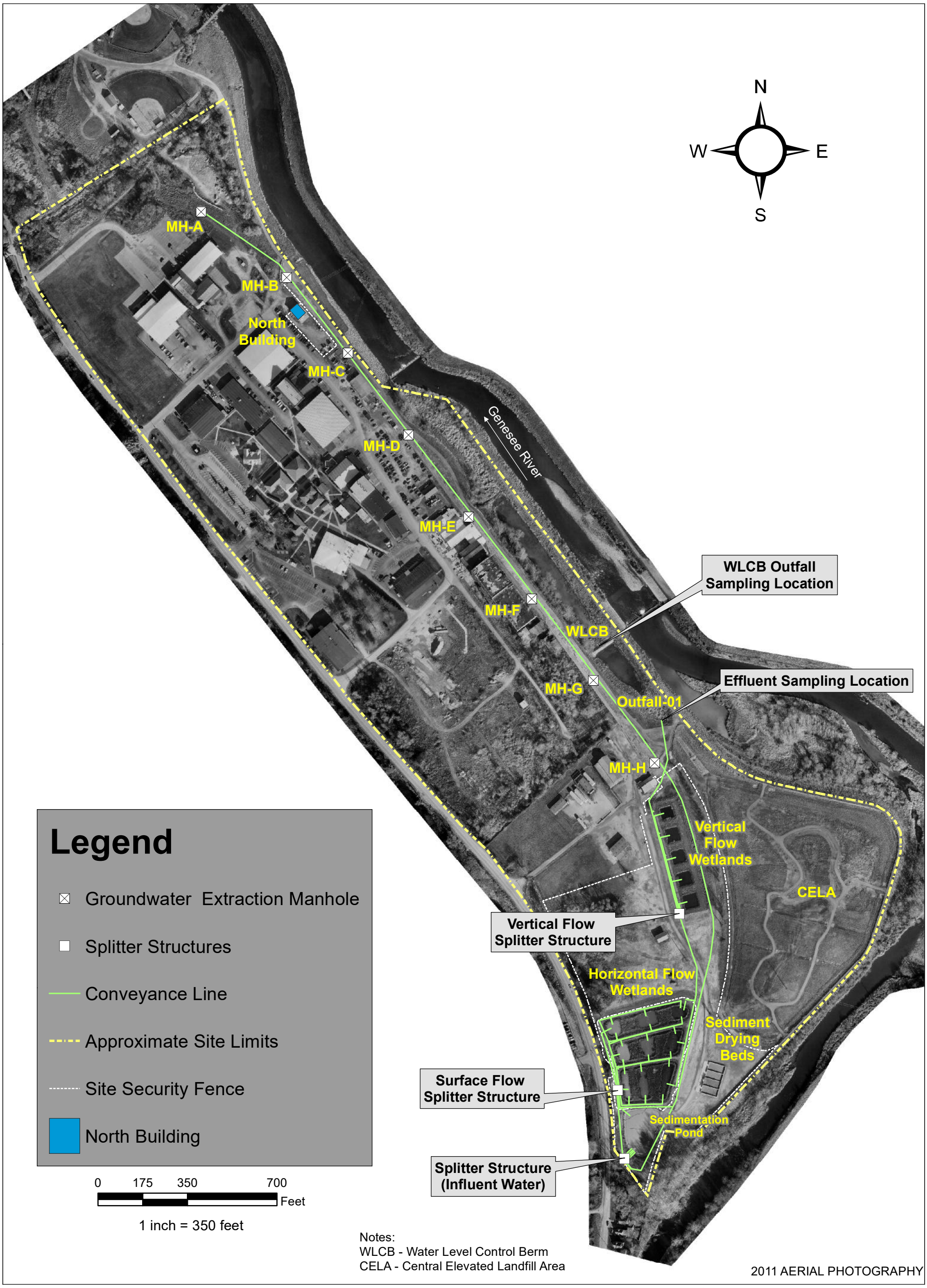
GROUNDWATER EXTRACTION & WETLAND TREATMENT SYSTEM
FORMER SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK



Legend

- Groundwater Extraction Manhole
- Splitter Structures
- Conveyance Line
- Approximate Site Limits
- Site Security Fence
- North Building

0 175 350 700 Feet

1 inch = 350 feet

Notes:
WLCB - Water Level Control Berm
CELA - Central Elevated Landfill Area

2011 AERIAL PHOTOGRAPHY

ON-SITE TECHNICAL SERVICES, INC.
72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	3
PROJECT	Wellsivlle Sinclair
DOCUMENT	Annual Report
FILE	Fig_3

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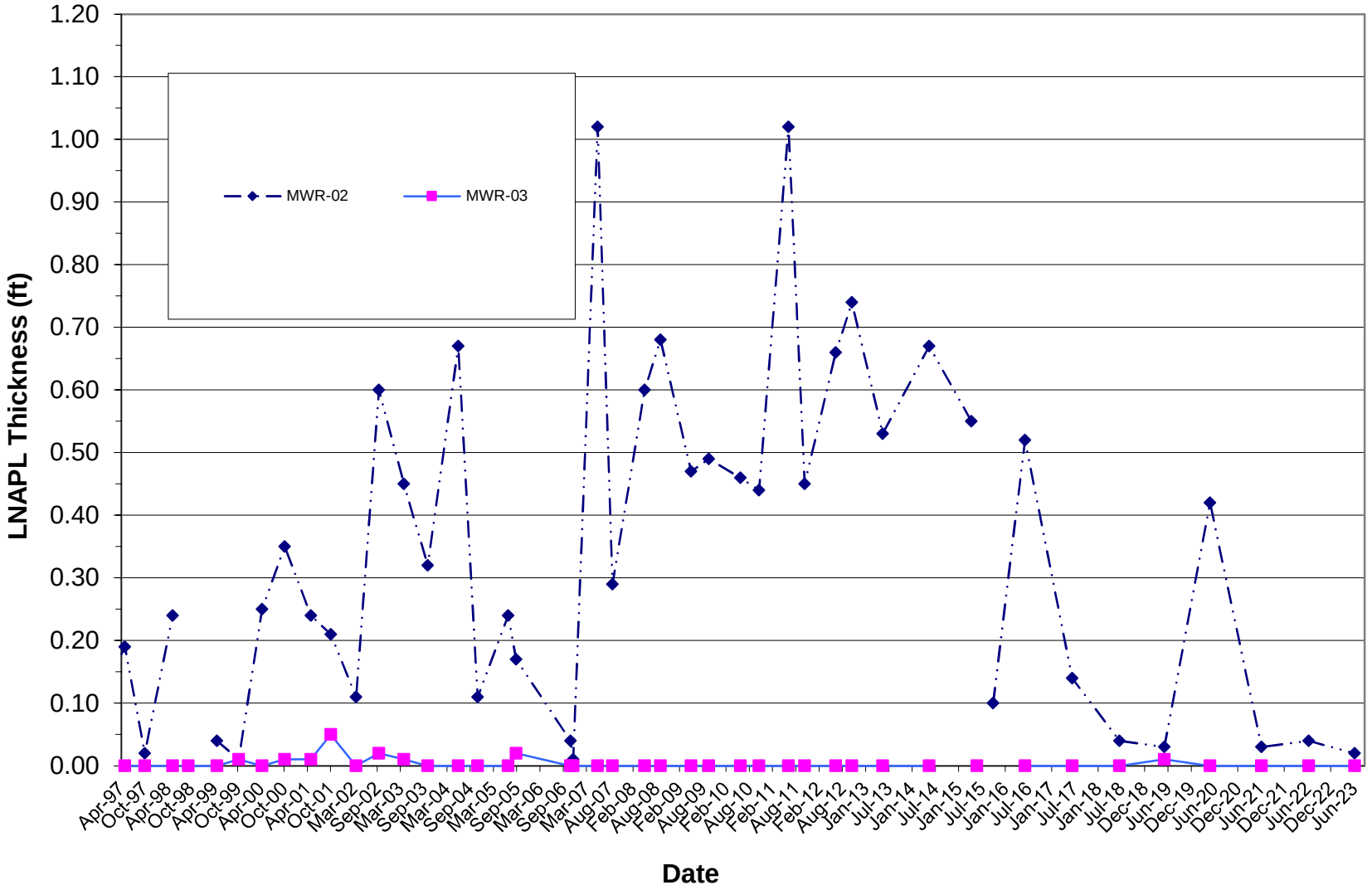
Figure 4

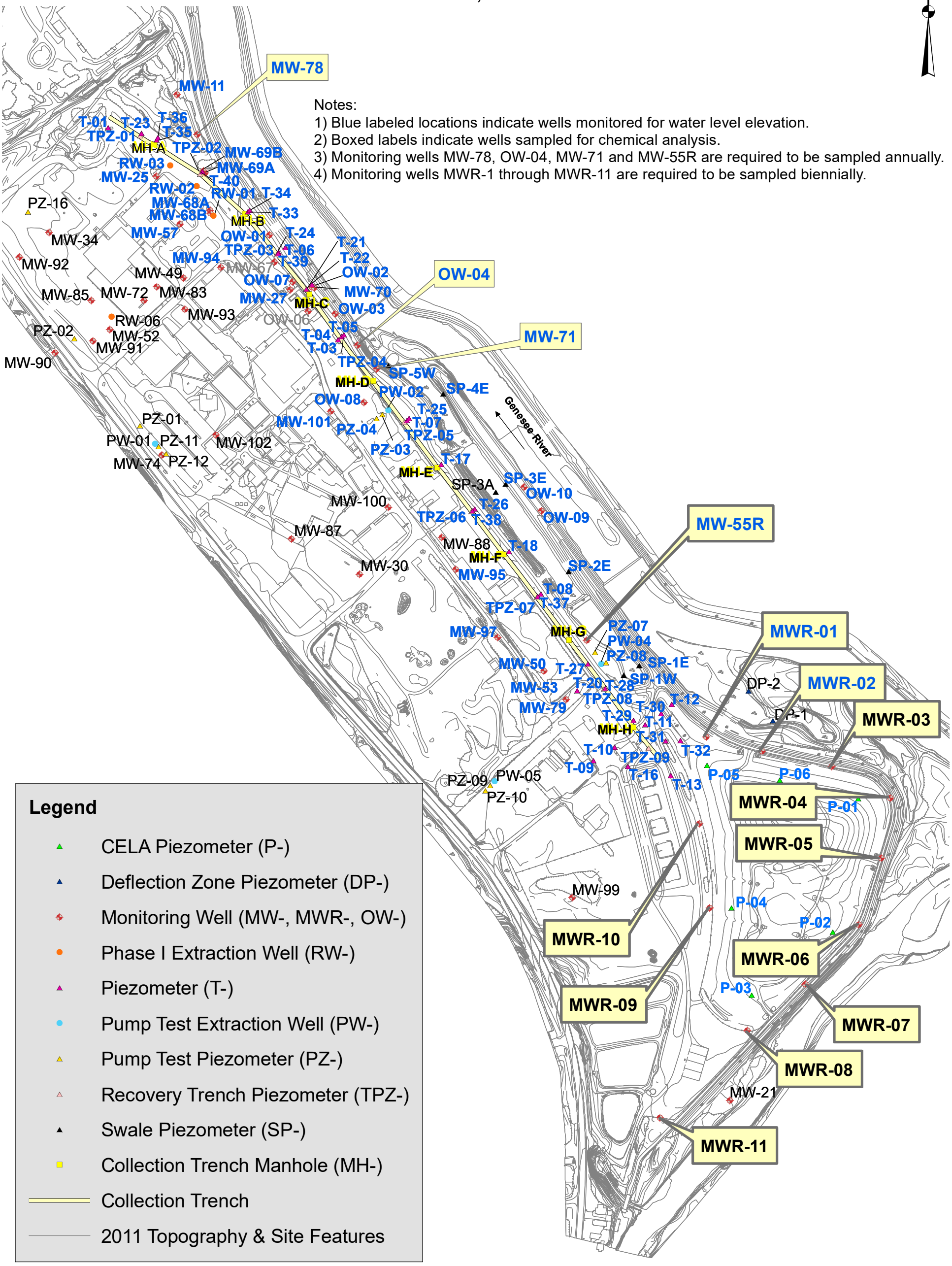
LNAPL Thickness 1997-2023



MONITORING WELL AND PIEZOMETER LOCATIONS
FORMER SINCLAIR REFINERY SITE
WELLSVILLE, NEW YORK

N

Notes:
1) Blue labeled locations indicate wells monitored for water level elevation.
2) Boxed labels indicate wells sampled for chemical analysis.
3) Monitoring wells MW-78, OW-04, MW-71 and MW-55R are required to be sampled annually.
4) Monitoring wells MWR-1 through MWR-11 are required to be sampled biennially.



Legend

- CELA Piezometer (P-)
- Deflection Zone Piezometer (DP-)
- Monitoring Well (MW-, MWR-, OW-)
- Phase I Extraction Well (RW-)
- Piezometer (T-)
- Pump Test Extraction Well (PW-)
- Pump Test Piezometer (PZ-)
- Recovery Trench Piezometer (TPZ-)
- Swale Piezometer (SP-)
- Collection Trench Manhole (MH-)
- Collection Trench
- 2011 Topography & Site Features

350 175 0 350 Feet

1 inch = 350 feet

ON-SITE TECHNICAL SERVICES, INC.
72 Railroad Avenue Wellsville, NY 14895

FIGURE NO.	5
PROJECT	Wellsville Sinclair
FILE	FIG_5.MXD
DATE	01.29.24

N:\ARCO_WLSV\COMBINEDANNUALREPORT\2023\FIGURES\FIG_5

APPENDIX A

2023 COMPLETED INSPECTION FORMS

- **Daily O&M Inspections**
- **Monthly Groundwater Recovery / Wetland Treatment System Inspections**
- **Quarterly Groundwater Recovery / Wetland Treatment System Inspections**
- **Pressure Relief Valve (PRV) Quarterly Inspections**
- **Pressure Relief Valve (PRV) Annual Inspection**
- **Semi Annual Groundwater Recovery / Wetland Treatment System Checklist**
- **Annual CELA / Groundwater Recovery / Wetland Treatment / River Channel Inspection**
- **Semi Annual Gas Vent Monitoring**
- **River Inspection – annual low flow condition**

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	1-3-23	Conducted by	S. WATSON	Weather	43°F cloudy cold

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 10:45A 2nd 1300P 3rd 1500P
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1030	53	25 230510
MH "B"	N	1030	11	13, 842 680
MH "C"	N	1035	0	36, 167 633
MH "D"	N	1040	0	62, 555 643
MH "E"	N	1044	0	OFF
MH "F"	N	1044	0	194 268 472
MH "G"	N	1053	32	192 212 025
MH "H"	N	1053	0	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 1-3-23 **Conducted by** S. Watts

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	12154	Hrs.
Vacuum reading	1.2 psi.	180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	158°F	6.0	13351
Surface flow # 2	162°F	5.9	23847
Surface flow # 3	180°F	5.7	9185

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	1/9/23	Conducted by	J. PALMER	Weather	29°F CLOUDY

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0945 2nd _____ 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	O/C
Inspect MH covers	O/C
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0918	51	25,437,652
MH "B"	N	0915	20	13,991,194
MH "C"	N	0925	0	36,234,625
MH "D"	N	0928	44	62,943,171
MH "E"	—	0930	OFF	—
MH "F"	N	0930	55	154,596,501
MH "G"	N	0935	32	192,485,226
MH "H"		OFF		

	O/L Trip
DB sump	O/C

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 1/9/23 **Conducted by** J. PALMER

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	2.0 psi.
Drain condensate from inlet line ? VALVE ADJUSTED	N
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	OK
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

12297	Hrs.
180	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	140° F	5.9	13494
Surface flow # 2	150° F	5.2	23990
Surface flow # 3	168° F	5.5	9338

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	1-16-23	Conducted by	S Watson	Weather	21°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1040 2nd 1200 3rd 1530

If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1040	0	25,772622
MH "B"	N	1040	19	14,150075
MH "C"	N	1050	0	36,303102
MH "D"	N	1054	43	63,168,305
MH "E"	N	1057	0	OFF
MH "F"	N	1059	54	194,922,060
MH "G"		1110	31	182,808,303
MH "H"	N	1110	0	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 1-16-23. Conducted by S. Watson

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	124660	Hrs.
Vacuum reading	2.4	psi. 190	scfm.
Drain condensate from inlet line ? frozen	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	142°F	6.0	13663
Surface flow # 2	150°F	5.8	24159
Surface flow # 3	164°F	5.8	9508

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	1-23-23	Conducted by	S. Watson	Weather	34°F cloudy snow

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1010 JT 2nd 1355 JT 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1010	0	26,070,621
MH "B"	N	1010	21	14,314,790
MH "C"	N	1016	0	36,385,556
MH "D"	N	1022	0	63,510,938
MH "E"	N	1024	0	NA
MH "F"	N	1024	56	195,291,020
MH "G"	N	1036	32	193,127,837
MH "H"			0	NA

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:	

Comments: _____

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 1-23-23 **Conducted by** S. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	2.0 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

12633	Hrs.	
190	scfm.	

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	140°F	5.6	13831
Surface flow # 2	160°F	5.9	24327
Surface flow # 3	170°F	5.8	9675

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	1-30-23	Conducted by	S. Watson	Weather	39°F cloudy -snow

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 1040 JF 2nd 1145 JF 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	N
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	N
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1040	51	36,371000
MH "B"	N	1040	23	14,480550
MH "C"	N	1046	Ø	36,457184
MH "D"	N	1050	Ø	63,825612
MH "E"	N	1055	Ø	NA OFF
MH "F"	N	1055	Ø	195,631308
MH "G"	N	1106	32	193,453840
MH "H"	N		Ø	NA OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: SF #3 blower replaced 1-30-23

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 1-30-23 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	2.2 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

12502	Hrs.
190	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	148°F	5.5	13999
Surface flow # 2	160°F	5.9	2449.5
Surface flow # 3	173°F	6.0	9766

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments: SF#3 blower off at approx 1115 - Removed belt - blower unit bad. Removed - Completed new blower build and replaced on SF #3

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	2-6-23	Conducted by	S. Watson	Weather	32°F cloudy -rain

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 1015 SB 2nd _____ 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1016	0	36,638459
MH "B"	N	1016	12	14,641380
MH "C"	N	1020	0	36,517767
MH "D"	N	1024	44	64,115933
MH "E"	N	1030	—	OFF
MH "F"	N	1030	0	195,930237
MH "G"	N	1041	32	193,781800
MH "H"			—	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	2-6-23	Conducted by	S. WATSON

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	12969	Hrs.
Vacuum reading	2.2 psi.	190	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	152°F	5.9	14167
Surface flow # 2	160°F	5.7	24663
Surface flow # 3	150°F	5.8	9931

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 2-13-23 **Conducted by** S. Watts **Weather** 35°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1020 JB 2nd 1150 JB 3rd 1520 JB
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1025	50	26,895,425
MH "B"	N	1025	16	14,795,675
MH "C"	N	1029	33	36,569,470
MH "D"	N	1034	56	64,403,260
MH "E"	N	1040	—	OFF
MH "F"	N	1040	0	196,219,258
MH "G"		1051	32	194,109,184
MH "H"	N	1051	—	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 2-13-23 **Conducted by** S. [illegible]

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	13137	Hrs.
Vacuum reading	1.8	psi. 180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	169°F	6.0	14335
Surface flow # 2	180°F	5.8	24831
Surface flow # 3	178°F	6.0	10079

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	2-20-23	Conducted by	S. WATSON	Weather	44°F partly cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0830 JF 2nd 1250 JF 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0845	0	27,141751
MH "B"	N	0845	21	14,945046
MH "C"	N	0851	34	36,615920
MH "D"	N	0855	0	64,679227
MH "E"	N	0900	0	OFF
MH "F"	N	0900	0	196,493158
MH "G"	N	0912	32	194,432280
MH "H"	N	0912	0	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 2-20-23 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.6 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

13304	Hrs.
190	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	180°F	6.0	14501
Surface flow # 2	186°F	5.9	24997
Surface flow # 3	180°F	6.0	10205

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	2-27-23	Conducted by	S. WATSON	Weather	33°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1020SP 2nd 1145SP 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1020	0	27 413 191
MH "B"	N	1020	17	15, 054 520
MH "C"	N	1028	33	36, 617 555
MH "D"	N	1033	44	65, 001 522
MH "E"	N	1037	NA	OFF
MH "F"	N	1037	53	196, 512 460
MH "G"	N	1051	32	194 763 454
MH "H"	N	1051	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 2-27-23 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	2.0 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

13473	Hrs.
190	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	150°F	5.8	14611
Surface flow # 2	182°F	5.9	25167
Surface flow # 3	182°F	5.9	10435

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	3-6-23	Conducted by	S. WATSON	Weather	38°F cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 0925 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	NA
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0925	0	27,715492
MH "B"	N	0925	12	15,241256
MH "C"	N	0931	0	36,751178
MH "D"	N	0935	44	65,338341
MH "E"	N	0942	NA	OFF
MH "F"	N	0942	0	197,157,184
MH "G"	N	0850	0	195,092,964
MH "H"	N	0950	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 3-6-23 **Conducted by** J. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	2.1 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

13641 Hrs.
190 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	154°F	5.8	14838
Surface flow # 2	180°F	5.9	25334
Surface flow # 3	180°F	6.0	10602

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	3/13/23	Conducted by	J. PALMER	Weather	30° F CLOUDY / FLURRIES

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time ~~called~~ txt 1st 1005 2nd _____ 3rd _____**
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0953	0	28051,214
MH "B"	N	0959	12	15,400,659
MH "C"	N	1004	0	36,934,314
MH "D"	N	1007	44	65 677,506
MH "E"	—	1010	OFF	—
MH "F"	N	1010	49	197,523,600
MH "G"	N	1015	33	195,421,359
MH "H"	—		OFF	—

	O/L Trip
DB sump	

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 3/13/23 **Conducted by** J. PALMER

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	2 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	OK
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

13388 Hrs.
180 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	152° F	5.2	15006
Surface flow # 2	190° F	5.8	25502
Surface flow # 3	170° F	6.0	10770

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	3-20-23	Conducted by	S. WATTS	Weather	30°F partly cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 10:57 AM 2nd 12:00 PM 3rd 15:00 PM
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1012	53	28,383,485
MH "B"	N	1012	21	15,546,500
MH "C"	N	1016	0	36,915,085
MH "D"	N	1021	46	66,017,475
MH "E"	N	1025	NA	OFF
MH "F"	N	1025	48	197,913,176
MH "G"	N	1038	32	195,752,051
MH "H"	N	1038	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: MH-F has split hose at top of pump.

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 3-20-23 **Conducted by** S. CATON

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	13976	Hrs.
Vacuum reading	2.0	190	psi. scfm.
Drain condensate from inlet line ?	frozen		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area? Geese x 2	Y		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	154°F	5.8	15174
Surface flow # 2	180°F	5.8	25670
Surface flow # 3	168°F	6.0	10935

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments: SHUT DOWN SURFACE FLOW BLOWERS FOR SEASON

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	3-27-23	Conducted by	J. Watts	Weather	44°F cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1010 SF 2nd 1130 JF 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1015	0	28 125441
MH "B"	N	1015	0	15 643004
MH "C"	N	1022	33	37 000576
MH "D"	N	1030	35	66 353703
MH "E"	N	1036	NA	OFF
MH "F"	N	1036	44	198 327770
MH "G"	N	1044	32	196 082550
MH "H"	N	1044	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 3-27-23 **Conducted by** S. Watson

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	14144	Hrs.
Vacuum reading	1.8	psi. 180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	Y		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	4-3-23	Conducted by	J. WATSON	Weather	43°F partly cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0710 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0915	50	29 070386
MH "B"	N	0915	0	15, 644124
MH "C"	N	0920	0	37, 118510
MH "D"	N	0924	33	66, 680560
MH "E"	N	0930	NA	OFF
MH "F"	N	0930	43	198, 755100
MH "G"	N	0942	33	196, 411366
MH "H"	N	0942	NA	OFF

29, 070386

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 4.3.22 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.6 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area? X 2	Y
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

14301	Hrs.
150	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 4-10-23 | Conducted by S. WATT | Weather 23°F clear cold

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 0725 2nd 0835 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0730	0	29 420852
MH "B"	N	0730	19	15 661530
MH "C"	N	0736	33	37, 251 150
MH "D"	N	0740	27	67 018710
MH "E"	N	0745	NA	OFF
MH "F"	N	0745	43	199 196 585
MH "G"	N	0750	32	196, 739570
MH "H"	N	0758	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 4-10-23 **Conducted by** S. Watson

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	14477	Hrs.
Vacuum reading	1.6	psi. 180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	Y		
Signs of ~~berm~~ erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	4-17-23	Conducted by	S. WATSON	Weather	49°F cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st [illegible] 2nd [illegible] 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	N
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	N
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1000	55	29,748180
MH "B"	N	1000	0	15,714625
MH "C"	N	1006	0	37,347886
MH "D"	N	1010	35	61,328128
MH "E"	N	1016	NA	OFF
MH "F"	N	1016	40	199,639670
MH "G"	N	1025	32	197,872750
MH "H"	N	1025	NA	OFF

iRunning

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 4-17-23 **Conducted by** S. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.4 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	Y
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

146648	Hrs.
180	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		44	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	4-24-23	Conducted by	S. WATSON	Weather	43°F cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1000 JT 2nd 1130 SP 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1007	0	30,033,054
MH "B"	N	1007	0	15,743,607
MH "C"	N	1012	0	37,426,754
MH "D"	N	1016	3.5	61,622,335
MH "E"	N	1022	N/A	OFF
MH "F"	N	1022	41	200,062,574
MH "G"	N	1029	32	147,377,860
MH "H"	N		N/A	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 4-24-23 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	16 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	Y
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

148 1/6 Hrs.

182 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	5-1-23	Conducted by	S. WATTS	Weather	45° cloudy - like rain

Are you working alone? Y or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 0750 JB 2nd 1130 JP 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0950	0	30,303219
MH "B"	N	0950	0	15,785189
MH "C"	N	1001	0	37,493621
MH "D"	N	1005	37	67,909130
MH "E"	N	1010	0	OFF
MH "F"	N	1010	41	200,485,548
MH "G"	N	1017	32	197,720740
MH "H"	N	1017	0	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	5-1-23	Conducted by	S. Williams

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.4 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

14984	Hrs.	
180	scfm.	

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	—
Surface flow # 2			
Surface flow # 3	—		

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	5-8-23	Conducted by	S. Watson	Weather	57°F partly cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 1000 JT 2nd 1150 JT 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1010	56	30 635077
MH "B"	N	1010	9	15 858205
MH "C"	N	1018	36	37 582805
MH "D"	N	1024	38	68, 249760
MH "E"	N	1029	0	OFF
MH "F"	N	1029	41	200, 905295
MH "G"	N	1041	32	198, 050837
MH "H"	N		0	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: Cleared SF weirs #1, 2, 3 approx. 6"

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	5-8-23	Conducted by	S. Ward

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	15,152	Hrs.
Vacuum reading	1.1	psi. 180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	Y		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	5-15-23	Conducted by	S. Watson	Weather	57°F - partly cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0750 SP 2nd 1230 SP 3rd 1520 SP
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	N
Does any debris/blockage exist within outlet pipe?	Y
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0952	56	30,936,000
MH "B"	N	0952	11	15,994602
MH "C"	N	0958	0	37,655533
MH "D"	N	1002	44	68,559557
MH "E"	N	1007	NA	OFF
MH "F"	N	1007	41	201,335275
MH "G"	N	1015	32	198,377577
MH "H"	N	1015	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: SF pond effluent weir lowered approx. 6"

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 5-15-23 **Conducted by** S. Watts

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?		15320	Hrs.
Vacuum reading	1.1	psi. 160	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	Y		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	~~Hrs.~~
Surface flow # 1			
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	5-22-23	Conducted by	S. Watt	Weather	64°F Partly cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 1030 hrs 2nd _____ 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	N
Visual flow observed at swale influent pipe?	N
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	N
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manhole or corrugated pipes?	OK
Visual flow observed at each corrugated pipe?	N

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1036	55	31,178483
MH "B"	N	1036	0	16,170027
MH "C"	N	1040	0	37,702215
MH "D"	N	1045	0	68,847136
MH "E"	N	1051	NA	OFF
MH "F"	N	1051	65	201,758270
MH "G"	N	1102	32	198,703720
MH "H"	N		NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: SF pond weirs lowered approx. 6" to their final summer level.

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 5-22-23 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.1 psi.
Drain condensate from inlet line ?	N
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	Y
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

15488 Hrs.
180 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	5/31/25	Conducted by	J. PALMER	Weather	80° F SUNNY

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1012 2nd 1117 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1010	61	31,434,974
MH "B"	N	1010	0	16,365,779
MH "C"	N	1013	0	37,743,822
MH "D"	N	1016	0	69,187,176
MH "E"	—	1019	0	OFF
MH "F"	N	1019	63	202,250,677
MH "G"	N	1029	31	199,117,199
MH "H"				

	O/L Trip
DB sump	

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 5/3/23 **Conducted by** J. PALMER

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	OK		
Condition of blower cabinet and lines?	OK	15704	Hrs.
Vacuum reading	0.8 psi.	130	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)			
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date: 6-5-23 | Conducted by: S. Watson | Weather: 62°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 0850 SP 2nd _____ 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0950	0	31,559,908
MH "B"	N	0950	47	16,469,755
MH "C"	N	0955	0	37,762,902
MH "D"	N	1001	0	69,361,252
MH "E"	N	1005	NA	OFF
MH "F"	N	1005	0	202,457,752
MH "G"	N	1017	34	199,344,656
MH "H"	N	1017	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 6-5-23 **Conducted by** S. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.0 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	Y
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

15823 Hrs.

180 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2		off	
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	6-21-23	Conducted by	S. Watson	Weather	58°F fog

Are you working alone? Y or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st_____ 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

SED POND CLEANING START UP

Manholes A-H

	Y / N / OK
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0625	NA	31,645295
MH "B"	N	0625	NA	16,548903
MH "C"	N	0637	NA	37,776218
MH "D"	N	0642	NA	69,493625
MH "E"	N	0645	NA	OFF
MH "F"	N	0645	NA	202,615893
MH "G"	N	0649	NA	199,516903
MH "H"	N	0649	NA	OFF

Swale area

	Y / N / OK
Does any debris/blockage exist within outlet pipes?	
Does any debris/blockage exist within inlet pipe?	
Visual flow observed at WLCB effluent pipe?	
Visual flow observed at swale influent pipe?	
Any seeps observed North or South of WLCB on West side?	

	O/L Trip
DB sump	

Effluent Manhole

	Y / N / OK
Visual flow observed into manhole?	
Does any debris/blockage exist within outlet pipe?	

Vertical flow ponds

	Y / N / OK
Signs of animal burrows around or within pond?	
Signs of berm erosion around or within pond?	
Signs of proper flushing activities?	

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5		# 2	
# 4		# 1	
# 3			

Sedimentation pond

	Y / N / OK
Signs of animals burrowing around or in pond area?	

Cascade splitter structure and cascade

	Y / N / OK
Does any debris/blockage exist at manholes or corrugated pipes?	
Visual flow observed at each corrugated pipe?	

Notes: NO FLOW - SYSTEM TURN "ON"

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	6-26-23	Conducted by	S. Watts	Weather	67°F partly cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0825 ET 2nd _____ 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0835	G	31,803836
MH "B"	N	0835	G	16,735042
MH "C"	N	0840	G	37,852254
MH "D"	N	0844	G	69,673472
MH "E"	N	0848	NA	OFF
MH "F"	N	0848	63	202,844275
MH "G"		0855	G	199,687492
MH "H"	N	0855	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: * SF pond weirs adjusted for equal flow.

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 6-26-23 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	.8 psi.
Drain condensate from inlet line ?	N
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

16139	Hrs.
150	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	7-5-23	Conducted by	S. WATTS	Weather	67°F fog

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0845 JP 2nd 1330 JP 3rd 1535 JP
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	N
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	N
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0840	57	32,021885
MH "B"	N	0840	0	16,944547
MH "C"	N	0848	0	37,891317
MH "D"	N	0852	46	69,989870
MH "E"	N	0857	NA	OFF
MH "F"	N	0857	60	203 214130
MH "G"	N	0905	32	200 041763
MH "H"	N		NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 7-5-23 **Conducted by** S. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.0 psi.
Drain condensate from inlet line ?	N
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

46354	Hrs.
180	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		ff	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	7/10/23	Conducted by	J. Palmer	Weather	75° cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called ~~for~~ 1st 0930 2nd_____ 3rd_____**
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0942	58	32,159,493
MH "B"	N	0942	0	17,060,219
MH "C"	N	0949	0	37,913,462
MH "D"	N	0951	0	70,171,039
MH "E"	–	0953	OFF	–
MH "F"	N	0953	63	203,936,119
MH "G"	N	1001	32	200,256,217
MH "H"		– OFF –		

	O/L Trip
DB sump	

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 7/10/23 **Conducted by** J. Palmer

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	16475	Hrs.
Vacuum reading	0.5 psi.	180	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	OFF		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	7/17/23	Conducted by	J. Palmer	Weather	76° overcast / haze

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time ~~called~~ txt 1st 1015 2nd _____ 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0954	0	32,327,619
MH "B"	N	0954	0	17,217,491
MH "C"	N	1015	0	37,943,178
MH "D"	N	1017	0	70,409,201
MH "E"	—	1019	OFF	—
MH "F"	N	1019	63	203,733,135
MH "G"	N	1023	32	203,552,175
MH "H"		— OFF	—	

	O/L Trip
DB sump	

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 7/7/23 **Conducted by** J. PALMER

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	16644	Hrs.
Vacuum reading	0.5	psi. 150	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	OFF		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	7-24-23	Conducted by	S. Watts	Weather	59°F partly cloudy

Are you working alone? Y or (N) If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st_____ 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0750	0	32,496,281
MH "B"	N	0750	48	17,374,650
MH "C"	N	0800	0	37,967,974
MH "D"	N	0820	0	70,635,694
MH "E"	N	0825	NF	OFF
MH "F"	N	0835	0	204,012,904
MH "G"	N	0836	32	200,846,215
MH "H"	N		NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	7-24-23	Conducted by	S. WATSON

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	16510	Hrs.
Vacuum reading	1.1	psi. 180	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2		off	
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 7-31-23 | Conducted by S. Watson | Weather 53°F fog-calm

Are you working alone? Y or (N) If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st_____ 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

Manholes A-H

	Y / N / OK
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK

Swale area

Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N

Effluent Manhole

Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N

Vertical flow ponds

Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y

Sedimentation pond

Signs of animals burrowing around or in pond area?	N

Cascade splitter structure and cascade

Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0710	0	32,638169
MH "B"	N	0710	25	17,527645
MH "C"	N	0714	0	37,992082
MH "D"	N	0718	44	70,859515
MH "E"	N	0722	59	304,369030
MH "F"	N	0722	NA	OFF
MH "G"	N	0725	32	201,145600
MH "H"	N	0725	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 7.31.23 Conducted by S. Watts

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	16977	Hrs.
Vacuum reading	1.4 psi.	180	scfm.
Drain condensate from inlet line ?			
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	9-7-23	Conducted by	S. WAT	Weather	77° partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1000 JF 2nd 1245 JF 3rd 1530 JF
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0842	0	32,756984
MH "B"	N	0842	31	17,671551
MH "C"	N	0847	0	38 015458
MH "D"	N	0851	44	71 073645
MH "E"	N	0855	NA	OFF
MH "F"	N	0855	52	204 729976
MH "G"	N	0905	34	201,443 212
MH "H"	N	0905	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 8-7-23 **Conducted by** S. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.0 psi.
Drain condensate from inlet line ?	N
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

17146 Hrs.
180 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	8-14-23	Conducted by	S. Watson	Weather	60°F partly cloudy

Are you working alone? Y or (N) If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st_____ 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0615	0	32,926,367
MH "B"	N	0615	13	17,795,330
MH "C"	N	0623	0	38,041,305
MH "D"	N	0629	40	71,277,765
MH "E"	N	0634	NA	~~3 111,860~~ OFF
MH "F"	N	0634	57	205 111,860
MH "G"	N	0640	0	201,737,974
MH "H"	N	0640	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 8-14-23 Conducted by S. Watts

	Y / N / OK			
Bio filter and blower				
Signs of animal burrows around or within mulch bed?	N			
Is bio filter media hydrated properly?	Y			
Condition of blower cabinet and lines?	OK	17312	Hrs.	
Vacuum reading	1.2	psi. 180	scfm.	
Drain condensate from inlet line ?	N			
Hydraulic control splitter structure				
Does any debris/blockage exist within outlet pipes?	N			
Does any debris/blockage exist within inlet pipe?	N			
Visually confirm outlet pipes flow equally?	Y			
Surface flow wetlands				
Signs of geese or muskrats within surface flow area?	N			
Signs of berm erosion around or within ponds?	N			
Surface flow blowers				
Check condition of blower enclosure	OK			
Check blower for oil leaks (while in operation)	N			
Check blower oil level if leaks appear				
Surface flow weir gates				
Does any debris/blockage exist within weir gate structure?	N			
Drying beds				
Condition of doors?	OK			
Are any standing liquids present in bed?	N			

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	8-21-23	Conducted by	S. WATER	Weather	70°F cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0815 JB 2nd 1144 JB 3rd 1533 JB
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0830	60	33,073,756
MH "B"	N	0830	12	17,925,262
MH "C"	N	0838	0	38,074,188
MH "D"	N	0842	0	71,509,076
MH "E"	N	0850	NA	OFF
MH "F"	N	0850	62	205,541,333
MH "G"	N	0940	46	202,057,465
MH "H"	N	0940	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 8-21-23 **Conducted by** S. WATS

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.0 psi.
Drain condensate from inlet line ?	N
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

17482 Hrs.
180 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2		off	
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	8-28-23	Conducted by	S. Watson	Weather	54°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 0855P 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0910	0	33,213125
MH "B"	N	0910	0	18,072856
MH "C"	N	0916	0	38,108795
MH "D"	N	0921	0	71,737645
MH "E"	N	0928	NA	OFF
MH "F"	N	0928	0	205,857022
MH "G"	N	0940	0	202,380010
MH "H"	N	0940	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 8-28-23 **Conducted by** S. WATSON

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK.	17651	Hrs.
Vacuum reading	1.1	psi. 180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	9/5/23	Conducted by	J. Palmer	Weather	

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st_____ 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0840	0	33,368,954
MH "B"	N	0840	39	18,248,779
MH "C"	N	0847	0	38,193,163
MH "D"	N	0850	46	72,015,091
MH "E"		— 0	F	—
MH "F"	N	0855	0	206,193,683
MH "G"	N	0903	35	202,736,354
MH "H"		— 0	F	—

	O/L Trip
DB sump	OK

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 9/5/23 **Conducted by** J. Palmer

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.2 psi.
Drain condensate from inlet line ?	N
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	OFF
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

17842 Hrs.
190 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	9/11/23	Conducted by	J. Palmer	Weather	65° P. cloudy

Are you working alone? Y or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called ~~N/A~~. 1st 0920 2nd 1530 3rd 1900
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0925	0	33 493 795
MH "B"	N	0925	50	18,381,128
MH "C"	N	0929	0	38,185,694
MH "D"	N	0932	0	72,291,633
MH "E"	—	0935	OUT	—
MH "F"	N	0935	62	206,464,036
MH "G"		0950	35	205,806,828
MH "H"				

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 9/11/23 **Conducted by** J. Palmer

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	17991	Hrs.
Vacuum reading	1.1	psi. 190	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	OK		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, inciudes the weekly inspection requirements of O&M plan

Date	9-18-23	Conducted by	J. WATS~	Weather	61°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1015 SP 2nd 1150 SP 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1022	0	33,627373
MH "B"	N	1022	0	18,545971
MH "C"	N	1029	0	38,230680
MH "D"	N	1037	46	72,512075
MH "E"	N	1046	NA	OFF
MH "F"	N	1046	55	206,794365
MH "G"		1100	34	203,345670
MH "H"	N	1100	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 9-18-23 **Conducted by** J. WATSON

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.1 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

18155	Hrs.
150	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	9-27-23	Conducted by	S. WATER	Weather	50°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 0820 2nd 1130 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0835	0	33,767962
MH "B"	N	0835	0	18,230135
MH "C"	N	0841	0	35,265841
MH "D"	N	0847	46	72,810543
MH "E"	N	0854	NA	OFF
MH "F"	N	0854	54	207,118230
MH "G"	N	0915	34	203,731660
MH "H"	N	0915	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 9-27-23 **Conducted by** S. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.4 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

18370 Hrs.

180 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	10/2/23	Conducted by	J. Palmer	Weather	74° Sunny

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time ~~called~~ txt 1st_____ 2nd_____ 3rd_____**
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1244	0	33,838,270
MH "B"	N	1244	44	18,829,725
MH "C"	N	1252	0	39,231,691
MH "D"	N	1255	0	72970,960
MH "E"	—	1257	OFF	—
MH "F"	N	1257	0	201,290,714
MH "G"	N	1302	34	253,947,969
MH "H"				

	O/L Trip
DB sump	OK

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 10/2/23 **Conducted by** J. P Alunich

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.0 psi.
Drain condensate from inlet line ?	
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	/
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

18494	Hrs.
180	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	OFF		
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 10/9/23 **Conducted by** J. Palmer **Weather**

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time ~~called~~ txt 1st 1020 2nd_____ 3rd_____**
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1025	0	33,924,064
MH "B"	N	1025	40	18,965,186
MH "C"	N	1020	0	38,299,451
MH "D"	N	1032	41	73,175,530
MH "E"	OFF	1035		
MH "F"	N	1035	51	207,512,045
MH "G"		1043	34	204,237,719
MH "H"	OFF	1043		

	O/L Trip
DB sump	OK

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	10/9/23	Conducted by	J. Palmer

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	18660	Hrs.
Vacuum reading	1.4	psi. 180	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	OK		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	OK		
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	10-16-23	Conducted by	S. Watts	Weather	44°F cloudy rain

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 0820 JP 2nd 1357 JP 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	N
Visual flow observed at swale influent pipe?	N
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	N
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0900	51	34,004979
MH "B"	N	0900	0	19,076130
MH "C"	N	0906	0	38,317080
MH "D"	N	0912	53	73,378625
MH "E"	N	0916	NA	OFF
MH "F"	N	0916	0	207,727999
MH "G"	N	0924	34	204,521407
MH "H"	N	0924	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:	

Comments: _____

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 10-16-23 **Conducted by** S. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.6 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

18826 Hrs.

180 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2		off	
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	10/23/23	Conducted by	J. PALMER	Weather	46° SUNNY

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 1045 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	11 54	0	34,088,643
MH "B"	N	1154	0	19,199,796
MH "C"	N	1159	0	38,336,086
MH "D"	N	1202	52	73,599,000
MH "E"	—	1205	OFF	—
MH "F"	N	1205	0	207,950,415
MH "G"	N	1209	35	204,796,214
MH "H"		— OFF	—	

	O/L Trip
DB sump	OK

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 10/23/23 **Conducted by** J. PALMER

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	18997	Hrs.
Vacuum reading	1.6	psi. 180	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	OFF		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2		OFF	
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments: RAISED SFW OUTLET WEIRS APPROX. 6"

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	10-30-23	Conducted by	S. Watson	Weather	44°F cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 1310 JP 2nd 1500 JT 3rd 1530 JT
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1325	0	19,321,066
MH "B"	N	1325	0	34,166,307
MH "C"	N	1331	0	38,354,380
MH "D"	N	1335	0	73,796,372
MH "E"	N	1341	NA	OFF
MH "F"	N	1341	54	208,159,520
MH "G"	N	1346	35	205,059,820
MH "H"	N	1358	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: SFP weir raised to winter level

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 10-30-23 **Conducted by** S. WATSON

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	19167	Hrs.
Vacuum reading	1-8	psi. 190	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	11-6-23	Conducted by	S. WATSON	Weather	39F cloudy

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 0730 JF 2nd 1040 JF 3rd 1550 JF
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	0940	0	34,245790
MH "B"	N	0940	0	19,443000
MH "C"	N	0944	0	28,375660
MH "D"	N	0950	51	34,019920
MH "E"	N	0955	NA	OFF
MH "F"	N	0955	0	208,380504
MH "G"	N	1004	35	205,326198
MH "H"	N	1004	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 11-6-23 **Conducted by** S. Watson

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.6 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

19332 Hrs.
190 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2		off	
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	11-13-23	Conducted by	S. Watson	Weather	41°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 10:30AP 2nd 12:00PM 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	N
Visual flow observed at swale influent pipe?	N
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	N
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1035	52	34,326,000
MH "B"	N	1035	0	19,565,814
MH "C"	N	1040	0	38,394,721
MH "D"	N	1046	0	74,231,760
MH "E"	N	1051	NA	OFF
MH "F"	N	1051	0	208,596,888
MH "G"	N	1103	0	205,591,925
MH "H"	N	1103	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 11-13-23 **Conducted by** S. WATTS

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.9 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	N
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

19501 Hrs.
190 scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 11-20-23 Conducted by S. Watson Weather 31.4°F partly cloudy

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1025 2nd 1200 3rd 1300
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1015	51	34,403,795
MH "B"	N	1015	0	19,685,485
MH "C"	N	1019	0	38,412,427
MH "D"	N	1024	0	74,439,251
MH "E"	N	1030	NA	OFF
MH "F"	N	1030	0	208,803,495
MH "G"	N	1039	36	205,845,014
MH "H"	N	1039	NA	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	11-20-23	Conducted by	S. WATSON

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	19668	Hrs.
Vacuum reading	2.1	psi. 180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		off	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	11/27/23	Conducted by	J PALMER	Weather	36° FLURRIES

Are you working alone? (Y) or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time ~~called~~ text 1st_____ 2nd_____ 3rd_____**
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1033	0	34,486,155
MH "B"	N	1033	40	19,808,474
MH "C"	N	1039	0	38,435,991
MH "D"	N	1042	48	74,679,335
MH "E"	~~N~~	~~1044~~	0	~~204,032,324~~
MH "F"	N	1044	0	204,032,324
MH "G"	N	1049	0	206,107,753
MH "H"	—	OFF	—	

OFF

	O/L Trip
DB sump	

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 11/27/23 **Conducted by** J. Palmer

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	19936	Hrs.
Vacuum reading	1.9	psi. 180	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	OFF		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1		OFF	
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	12/4/23	Conducted by	J. Palmer	Weather	40° cloudy

Are you working alone? Y or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time ~~called~~ txt 1st 1005 2nd_____ 3rd_____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1018	0	34,574,758
MH "B"	N	1013	33	19,935,203
MH "C"	N	1022	36	38,466,063
MH "D"	N	1025	47	74,927,420
MH "E"		~~1020~~ OFF		
MH "F"	N	1028	53	209,267,262
MH "G"	N	1039	34	206,377,543
MH "H"		OFF		

	O/L Trip
DB sump	OK

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments: _____

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 12/4/23 **Conducted by** J. Palmer

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	20,005	Hrs.
Vacuum reading	1.3 psi.	180	scfm.
Drain condensate from inlet line ?	Y		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)			
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1			
Surface flow # 2			
Surface flow # 3			

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	12-11-23	Conducted by	S. Watson	Weather	32°F Cloudy rain/snow

Are you working alone? Y or N **If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called** 1st 1130 2nd 1235 3rd 1930 **If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.**

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1218	0	34,710642
MH "B"	N	1218	0	20,087086
MH "C"	N	1209	37	38517,440
MH "D"	N	1204	0	75,229506
MH "E"	N	1141	N/A	OFF
MH "F"	N	1141	55	309 586702
MH "G"	N	1135	35	206,711425
MH "H"	N	1135	N/A	OFF

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 12-11-23 **Conducted by** S. WATSON

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	20174	Hrs.
Vacuum reading	2.1 psi.	180	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	122.4°F	6.0	15200
Surface flow # 2	120°F	5.9	25676
Surface flow # 3	142°F	6.0	10964

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	12-15-23	Conducted by	S. WATSON	Weather	41° F cloudy 1" to calc

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1000 2nd 1100 3rd _____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1014	0	~~34,865,605~~
MH "B"	N	1014	40	20 107484
MH "C"	N	1018	0	38,566550
MH "D"	N	1022	40	7.5 493725
MH "E"	N	1027	NA	OFF
MH "F"	N	1027	50	209 921,860
MH "G"	N	1040	37	206,753967
MH "H"	N	1040	NA	OFF

34,865,605

	O/L Trip
DB sump	N

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:	

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date 12-18-23 Conducted by S. Watts

	Y / N / OK		
Bio filter and blower			
Signs of animal burrows around or within mulch bed?	N		
Is bio filter media hydrated properly?	Y		
Condition of blower cabinet and lines?	OK	20340	Hrs.
Vacuum reading	1.8	psi. 180	scfm.
Drain condensate from inlet line ?	N		
Hydraulic control splitter structure			
Does any debris/blockage exist within outlet pipes?	N		
Does any debris/blockage exist within inlet pipe?	N		
Visually confirm outlet pipes flow equally?	Y		
Surface flow wetlands			
Signs of geese or muskrats within surface flow area?	N		
Signs of berm erosion around or within ponds?	N		
Surface flow blowers			
Check condition of blower enclosure	OK		
Check blower for oil leaks (while in operation)	N		
Check blower oil level if leaks appear			
Surface flow weir gates			
Does any debris/blockage exist within weir gate structure?	N		
Drying beds			
Condition of doors?	OK		
Are any standing liquids present in bed?	N		

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	148°F	6.0	15366
Surface flow # 2	120°F	6.0	25850
Surface flow # 3	150°F	5.9	11130

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

Former Sinclair Refinery Wellsville, NY Daily O&M Inspection 1 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	12/26/23	Conducted by	J Palmer	Weather	47° light Rain

Are you working alone? (Y) or N If yes, employees shall check-in via phone to main office at the beginning of a shift, at least once during mid shift and prior to leaving for the day. Time called 1st 1057 2nd 1202 3rd ____
If working alone, employee should review prohibited activities in section 9.5 (Working Alone) in the site HASP.

	Y / N / OK
Manholes A-H	
Inspect MH cabinet/control panels	OK
Inspect MH covers	OK
Swale area	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visual flow observed at WLCB effluent pipe?	Y
Visual flow observed at swale influent pipe?	Y
Any seeps observed North or South of WLCB on West side?	N
Effluent Manhole	
Visual flow observed into manhole?	Y
Does any debris/blockage exist within outlet pipe?	N
Vertical flow ponds	
Signs of animal burrows around or within pond?	N
Signs of berm erosion around or within pond?	N
Signs of proper flushing activities?	Y
Sedimentation pond	
Signs of animals burrowing around or in pond area?	N
Cascade splitter structure and cascade	
Does any debris/blockage exist at manholes or corrugated pipes?	N
Visual flow observed at each corrugated pipe?	Y

	O/L Trip	Time	gpm	Grand total
MH "A"	N	1058	0	35,048,813
MH "B"	N	1053	42	20,323,329
MH "C"	N	1105	0	39,621,677
MH "D"	N	1107	0	75,813,949
MH "E"	—	1113	OFF	—
MH "F"	N	1110	53	210,263,978
MH "G"		1113	36	~~207,129,022~~
MH "H"	—	OFF	—	

Door handle lock inoperative, Prolex at

	O/L Trip
DB sump	OK

Verify flow to vertical flow ponds			
	Y/N		Y/N
# 5	Y	# 2	Y
# 4	Y	# 1	Y
# 3	Y		

Notes:

Comments:

Former Sinclair Refinery Wellsville, NY Daily O & M Inspection 2 of 2

Complete daily when on site, includes the weekly inspection requirements of O&M plan

Date	12/26/23	Conducted by	J. Palmer

	Y / N / OK
Bio filter and blower	
Signs of animal burrows around or within mulch bed?	N
Is bio filter media hydrated properly?	Y
Condition of blower cabinet and lines?	OK
Vacuum reading	1.5 psi.
Drain condensate from inlet line ?	Y
Hydraulic control splitter structure	
Does any debris/blockage exist within outlet pipes?	N
Does any debris/blockage exist within inlet pipe?	N
Visually confirm outlet pipes flow equally?	Y
Surface flow wetlands	
Signs of geese or muskrats within surface flow area?	N
Signs of berm erosion around or within ponds?	N
Surface flow blowers	
Check condition of blower enclosure	OK
Check blower for oil leaks (while in operation)	OK
Check blower oil level if leaks appear	
Surface flow weir gates	
Does any debris/blockage exist within weir gate structure?	N
Drying beds	
Condition of doors?	OK
Are any standing liquids present in bed?	N

20533	Hrs.
130	scfm.

Blower	Outlet temp	Outlet psi.	Hrs.
Surface flow # 1	135°	5.5	15559
Surface flow # 2	140°	6.0	20022
Surface flow # 3	152°	5.9	11323

Hrs. added to new reading

SF # 1	27912
SF # 2	20094
SF# 3	20026

Comments:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST
Former Sinclair Refinery Site
Wellsville, New York

Weather 44°F cloudy rain

Completed By: S. WATSON
Title: Service Tech Date: 1-3-23
Reviewed By: J. PALMER
Title: PROJ. MGR Date: 1/31/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All OK ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** TROLL DOWNLOAD: 1/16/23
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 1-3-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 5,942,531 **Date:** 12/27/22 - 1/30/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Equal flows ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — In place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media ok
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 1.2 psi
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained
Check condition of lines and blower cabinet	Damage	Repair as needed ok
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flow
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife None noticed
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation All ok winter
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Operating
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flow

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — Cycling ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — None present ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — None present ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — Clear ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — bumped ok ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — ok ✓
Float switch operation	Floats do not operate	Repair as needed — Correct ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" [Twice Monthly During Summer Months] Date: Date: — winter ✓
Blue building		
Safety inspection	Each month	**Date:** 1-3-23 ✓

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST
Former Sinclair Refinery Site
Wellsville, New York

Weather 33°F cloudy

Completed By: S. WATSON

Title: SENIOR TECH Date: 2-6-2023

Reviewed By: J. PALMER

Title: PROJ. MGR. Date: 4/14/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All ok. ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. Date: 2/13/23 TROLL DOWNLOAD/WATER LEVEL MEAS.
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	Date: 2-6-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	Total: 5,533,603 Date: 1/30/23 - 2/27/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Even flows ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — Both in place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media OK Winter
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 2.2 psi.
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained
Check condition of lines and blower cabinet	Damage	Repair as needed All OK
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond OK.
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Even flow
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife None noticed
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation Look OK
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Operating
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed Cycling ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed Clear ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed Clear ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin None present ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed Pumps ok ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed ok ✓
Float switch operation	Floats do not operate	Repair as needed ok ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" Winter ✓ **[Twice Monthly During Summer Months] Date: Date:**
Blue building		
Safety inspection	Each month	**Date:** 2-6-23 ✓

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST

Former Sinclair Refinery Site

Wellsville, New York

Weather 41.4°F Cloudy

Completed By: S. WATSON

Title: Senior Tech Date: 3-6-23

Reviewed By: J. PALMER

Title: PROJ. MGR. Date: 4/4/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All ok ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** 3/23/23 TROLL DOWNLOAD/WATER LEVELS
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 3-6-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 7,921,844 **Date:** 2/27/23 - 4/3/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. Even Flows ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — In place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media OK ✓
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 2.1 psi ✓
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained ✓
Check condition of lines and blower cabinet	Damage	Repair as needed All ok ✓
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct ✓
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flows ✓
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife Geese in SF ponds ✓
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation All ok winter ✓
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers BLOWERS SHUT DOWN FOR SEASON ON 3/22/23 Operating properly ✓
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flow ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — Cycling properly ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — None present ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — None present ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — None present ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — ok ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — ok ✓
Float switch operation	Floats do not operate	Repair as needed — ok ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" [Twice Monthly During Summer Months] Date: Date: — Winter ✓
Blue building		
Safety inspection	Each month	**Date:** — 3-6-23 ✓

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST
Former Sinclair Refinery Site
Wellsville, New York

Weather 64°F clear/windy

Completed By: S. Watson
Title: Senior Tech Date: 4-3-23
Reviewed By: J. Palmer
Title: Proj. Mgr. Date: 5/4/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All OK ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** 4/14/23 TROLL DOWNLOAD/WATER LEVEL MEASUREMENTS
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 4-3-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 6,017,501 **Date:** 4/3/23 - 5/1/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Even flow ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — In place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media Moist ✓
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 1.6 psi ✓
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed drained ✓
Check condition of lines and blower cabinet	Damage	Repair as needed All ok ✓
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct elevation ✓
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flows ✓
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife Geese in SF area ✓
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation Looks okay ✓
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers OFF for spring ✓
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flows ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — Cycling ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — None present ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — None present ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — None noticed ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — Pumped okay ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — Okay ✓
Float switch operation	Floats do not operate	Repair as needed — okay ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" [Twice Monthly During Summer Months] Date: Date: — winter ✓
Blue building		
Safety inspection	Each month	**Date:** 4-3-23 ✓

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST

Former Sinclair Refinery Site

Wellsville, New York

Weather 38°F cloudy/cool

Completed By: S. Watson

Title: Senior Tech Date: 5-3-23

Reviewed By: J. Palmer

Title: PROJ. MGR. Date: 5/31/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:	
Groundwater Recovery			
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All ok	✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. Date: TROLL DATALOGGERS DOWNLOADED 5/15/23	
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	Date: 5-2-23	✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels	
Wetlands			
Calculate monthly discharge from treatment system	End of month	Total: 6,402,070 Date: 5/1/23 - 5/31/23	
Sedimentation pond			
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Equal flows	✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — Both in place	✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media OKAY
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. OKAY
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained/okay
Check condition of lines and blower cabinet	Damage	Repair as needed All okay
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flows
Surface flow wetlands - LOWERED WEIRS IN ±6" INCREMENTS TO ACHIEVE SUMMER LEVEL 5/8, 5/15, 5/22		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife Geese X2
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation All okay
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Shut down
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flows

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — Cycling ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — None noticed ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — None noticed ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — None noticed ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — Ramped okay ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — OKAY ✓
Float switch operation	Floats do not operate	Repair as needed — OKAY ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" [Twice Monthly During Summer Months] Date: — Winter months Date: ✓
Blue building		
Safety inspection	Each month	**Date:** 5-3-23 ✓

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST

Former Sinclair Refinery Site

Wellsville, New York

Weather_____

Completed By: S. Watson

Title: Senior Tech Date: 6-5-23

Reviewed By: J. Palmer

Title: Proj. Mgr. Date: 7/5/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.

Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone ALL OK ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** 6/29/23 MONTHLY TROLL DATALOGGER DOWNLOAD
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 6/7/23 JUNE - LIST "B" COLLECTED
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 4,003,995 **Date:** 5/31/23 - 7/5/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. Equal flows ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace ANNUAL SED POND CLEANING In place ✓ COMPLETED BETWEEN 6/9/23 - 6/21/23. TWO NEW BOOMS INSTALLED AT CONCLUSION.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media ok ✓
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 1.0 psi. ✓
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained ✓
Check condition of lines and blower cabinet	Damage	Repair as needed All ok ✓
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct ✓
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flows ✓
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife Geese no damage ✓
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation ok ✓
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Blowers off ✓
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flows ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — All ok ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — None present ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — None present ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — Bumped ok ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — ok ✓
Float switch operation	Floats do not operate	Repair as needed — Correct ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" — ok ✓ **[Twice Monthly During Summer Months] Date: Date:**
Blue building		
Safety inspection	Each month	**Date:** 6-5-23

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST

Former Sinclair Refinery Site

Wellsville, New York

Weather 67F fog

Completed By: S. Watson

Title: Senior Tech. Date: 7-5-23

Reviewed By: J. Palmer

Title: Proj. Mgr. Date: 7/31/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — ALL OK ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** NOT COMPLETED IN JULY 2023
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 7-5-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 4,429,529 **Date:** 7/5/23 - 7/31/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. Even flow ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — In place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media Good
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. .4 psi.
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed ok
Check condition of lines and blower cabinet	Damage	Repair as needed ok
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flow
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife None present
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation All ok
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Summer months
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flow

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed Cycling ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed Flowing ok ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed Flowing ok ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed None present ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed None present ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin Clean ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed Pumped ok ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed ok ✓
Float switch operation	Floats do not operate	Repair as needed ok ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" **[Twice Monthly During Summer Months] Date:** **Date:**
Blue building		
Safety inspection	Each month	**Date:** 7-5-23 ✓

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST
Former Sinclair Refinery Site
Wellsville, New York

Weather 80°F partly cloudy

Completed By: S. Watson
Title: Senior Tech
Date: 8-7-23
Reviewed By: J. Palmer
Title: P.E. / Proj. Mgr.
Date: 9/6/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — ALL OK ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** TROLL DATALOGGERS DOWNLOADED 8/10/23
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 8-2-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 4,342,412 **Date:** 7/31/23 - 9/29/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Even flow ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — In place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media Good
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 1.0 psi
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed dry
Check condition of lines and blower cabinet	Damage	Repair as needed Ac/ ok
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flow
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife None noticed on 8-7-23
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation None Noticed
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Summer month not in use.
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flows

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — Cycling ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — Clear ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — Clear ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — Clear ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — Working ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — OK ✓
Float switch operation	Floats do not operate	Repair as needed — Correct ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" **[Twice Monthly During Summer Months] Date:** — OK ✓ **Date:**
Blue building		
Safety inspection	Each month	**Date:** 8-7-23

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST
Former Sinclair Refinery Site
Wellsville, New York

Weather 85°F partly cloudy

Completed By: S. Watson
Title: Senior Tech
Date: 9-6-23
Reviewed By: J. Palmer
Title: Proj. Mgr.
Date: 10/4/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All ok ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** 9/18/23 TROLL DATALOGGER DOWNLOAD
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 9-6-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 5,734,671 **Date:** 9/28/23 - 10/2/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Even Flows ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — In place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media OK
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 10 psi
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained
Check condition of lines and blower cabinet	Damage	Repair as needed All ok
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct level
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flows
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife None noticed
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation All ok
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Summer
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flow

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — Cycling properly ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing clear ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing clear ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — Clear ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — Clear ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — None present ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — Bumped ok ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — OK ✓
Float switch operation	Floats do not operate	Repair as needed — Correct ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" **[Twice Monthly During Summer Months] Date:** **Date:**
Blue building		
Safety inspection	Each month	**Date:** 9-6-23

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST

Former Sinclair Refinery Site

Wellsville, New York

Weather 80°F partly cloudy

Completed By: S. Watson

Title: Service Tech

Date: 10-3-23

Reviewed By: J. Palmer

Title: Proj. Mgr.

Date: 11/1/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.

Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All ok ✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** 10/13/23 — TROW DATALOGGERS DOWNLOADED
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 10-3-23 ✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 4,653,617 **Date:** 10/2/23 - 10/30/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Even flow ✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — In place ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media Correct ✓
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 1.0 psi ✓
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained ✓
Check condition of lines and blower cabinet	Damage	Repair as needed All ok ✓
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct ✓
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flows ✓
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife None noticed ✓
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation All look good ✓
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Not needed ✓
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal flows ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:	
Dosing siphon structures			
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed	operating properly ✓
Effluent manhole and Outfall			
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed	Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed	Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed	Clear / Good ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed	Clear / Good ✓
Drying beds			
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin	None present ✓
Drying bed sump pump			
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed	Bumped ok ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed	ok ✓
Float switch operation	Floats do not operate	Repair as needed	ok ✓
WLCB			
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" [Twice Monthly During Summer Months] **Date:** **Date:**	Less than 12" ✓
Blue building			
Safety inspection	Each month	**Date:**	10-3-23 ✓

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST
Former Sinclair Refinery Site
Wellsville, New York

Weather 42.7°F cloudy calm

Completed By: S. Watson
Title: Senior Tech
Date: 11-6-23
Reviewed By: J. Palmer
Title: Proj. Mgr.
Date: 12/4/23

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery		
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — All OK
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** TROLL DATA LOGGERS DOWNLOADED 11/20/23
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 11-6-23
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels
Wetlands		
Calculate monthly discharge from treatment system	End of month	**Total:** 3,691,628 **Date:** 10/30/23 - 11/27/23
Sedimentation pond		
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Equal flow
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — Present

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media OK. ✓
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. 1.6 psi
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed Drained OK ✓
Check condition of lines and blower cabinet	Damage	Repair as needed All OK ✓
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond Correct elevation ✓
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds Equal flows ✓
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife None noticed ✓
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation All OK ✓
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers Not operating as of yet. OK. ✓
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds Equal Flow ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — Cycling properly
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Clear OK
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Clear OK
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — None present
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — None present
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — None present
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — Bumped OK
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — OK
Float switch operation	Floats do not operate	Repair as needed — OK
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" [Twice Monthly During Summer Months] Date: — Date: — Late fall OK
Blue building		
Safety inspection	Each month	**Date:** 11-6-23

Notes:

MONTHLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION/CHECK LIST
Former Sinclair Refinery Site
Wellsville, New York

Weather 30°F partly cloudy

Completed By: S. Watson
Title: Senior Tech Date: 12-12-23
Reviewed By: J. Palmer
Title: Proj. Mgr. Date: 1/4/24

Inspection required as detailed in tables 2 and 3 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:	
Groundwater Recovery			
Visual Inspection of MH access path and turnout	Erosion around MH	Fill eroded area with crushed limestone — ALL OK	✓
Manually measure water level and download data loggers at MH A-H and TPZ01-09	Variance between manual and data logger greater than 0.1 foot	Recalibrate data loggers as needed. **Date:** TROLL DATALOGGERS DOWNLOADED 12/26/23	
Collect SPDES Sample and analyse influent and effluent for parameters in List "A" SPDES for months other than June. June requires List "B"	Beginning of each month	**Date:** 12-4-23	✓
Confirm groundwater elevations show groundwater capture	Groundwater elevations outside of operating limits	Notify and discuss plan to move forward with the project team for adjustment of MH pump float levels	
Wetlands			
Calculate monthly discharge from treatment system	End of month	**Total:** 4,650,675 **Date:** 11/27/23 – 12/26/23	
Sedimentation pond			
Even flow distribution between sed pond corrugated inlet pipes	Unequal flows	Adjust weir gates at splitter structure to equal flows. — Even flow	✓
Check condition and position of turbidity curtains	Damaged or unsecured turbidity curtains	Reattach curtains, repair or replace — All okay	✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Bio Filter		
Check moisture content of bio filter 6" below surface	Media is dry (Summer months)	Add water to media — okay ✓
Bio Filter Blower		
Check blower psi reading	If below .8 psi	Check lines and cap on splitter structure for leaks and repair or replace if needed. Readings are recorded on daily inspections. — 3.1 psi ✓
Open drain valve on inlet line to drain condensate	Valve does not operate	Repair as needed — Drained ✓
Check condition of lines and blower cabinet	Damage	Repair as needed — All okay ✓
Hydraulic Control/Splitter Structure		
Check water level in sed pond is approximately 1508 feet-msl.	Water level is below 1507.5 feet-msl.	Adjust weir gates to raise water level in sed pond — Correct elevation ✓
Check that flow to each surface flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to surface flow ponds — Equal flows ✓
Surface flow wetlands		
Check for presence of muskrats and geese establishing residence within the ponds	Muskrats and or geese observed in or around wetland area	Harass geese and other waterfowl to prevent nesting, if geese are nesting assess whether damage warrants obtaining permit from USDA and NYDEC to disturb nests. Trap muskrats in accordance with current NYDEC permit to take destructive wildlife — None noticed ✓
Visual inspection of condition of vegetation on platforms in basins	Areas of impacted or damaged vegetation	Transplant cattails from an off-site source to fill areas of sparse vegetation — None noticed ✓
Surface flow wetland blowers		
Evaluate whether blowers need to be operated by reviewing previous effluent analytical results, expected weather conditions, and expected influent	Consistent or frequent exceedances of the SPDES discharge limits in conjunction with cold weather and high VOC loading in influent	Operate blowers — Turned on 12-11-23 ✓
Vertical flow wetland splitter structure		
Check that flow to each vertical flow pond is equal	Unequal flows	Adjust weir gates to equalize flow to vertical flow ponds — Equal flow ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dosing siphon structures		
Confirm dosing siphons are cycling	Water level does not change in pond	Troubleshoot and repair as needed — 2 times 4 years #1 no issue cycle ✓
Effluent manhole and Outfall		
Visual observation of flow in effluent manhole	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual observation of flow at outfall	Discolored or no flow	Troubleshoot and repair as needed — Flowing ✓
Visual inspection of effluent manhole	Debris or blockage	Clean as needed — None present ✓
Visual inspection of outfall pipe in swale	Debris or blockage	Clean as needed — None present ✓
Drying beds		
Check for debris or blockage in catch basin on pad west of beds	Blockage or debris (Summer months)	Clean catch basin — None present ✓
Drying bed sump pump		
Confirm pump operation	Pump does not operate	Troubleshoot and repair as needed — Pumped ok. Hy ✓
Confirm operation of check valve	Improper operation	Troubleshoot and repair as needed — OK. HY ✓
Float switch operation	Floats do not operate	Repair as needed — OKAY ✓
WLCB		
Visual inspection of side slope of levee between WLCB and river	Vegetation taller than 12" within 10' of the interface of the WLCB and levee	Cut to height no shorter than 3" [Twice Monthly During Summer Months] Date: Date: — winter ✓
Blue building		
Safety inspection	Each month	**Date:** 12-12-23 ✓

Notes:

1Q23

QUARTERLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION
Former Sinclair Refinery Site
Wellsville, New York

Weather 48°F cloudy

Completed By: S. Watson
Title: Senior Tech Date: 2-20-23
Reviewed By: J. Palmer
Title: Prof. Mgr Date: 4/14/23

Inspection required as detailed in tables 1 thru 4 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
CELA		
Gas Vents		
Visual inspection of gas vents	Erosion around gas vents	Fill eroded areas with topsoil and reseed — BOTH OKAY ✓
	Evidence of vandalism or damage	Repair damage — NONE ✓
Measure VOC concentrations in vents and in breathing zone downwind of gas vents	VOC concentration in excess of 1 ppm of benzene/vinyl chloride in breathing zone downwind of gas vents	Establish barricade around gas vents to prevent access attach gas vent readings.
Piezometers P-01 to P-06 and Wells MWR-01 to MWR-11		
Visual inspection of above grade portion of piezometers and monitoring wells	Sediment or vegetative growth over	Remove sediment or vegetation — ALL OKAY ✓
	Erosion around surface casing	Fill eroded areas with topsoil and reseed — ALL OKAY ✓
	Missing or damaged lock/cover cap	Replace or repair lock/cover cap — ALL OKAY ✓
	Water collecting between casing and riser	Remove water — None present ✓
	Evidence of vandalism or damage	Repair damage — None noticed ✓
Surface Water Drainage System		
Visual inspection of perimeter ditch	Obstructions which could impede flow	Remove obstructions — None present ✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OKAY ✓
Visual inspection of culverts under trail	Obstructions which could impede flow	Remove obstructions — None present ✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OKAY ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Visual inspection of drainage culvert that penetrates the flood protection dike at the north end	Obstructions which could impede flow	Remove obstructions — None noticed ✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OKAY ✓
Security Fence		
Visual inspection of fence on west side of CELA	Gates dragging on ground	Adjust gates to keep from dragging — OKAY ✓
	Frozen locks or hinges at gates	Repair, lubricate, replace locks or hinges as needed — BOTH OKAY ✓
	Holes in fence fabric	Repair holes in fence fabric — None noticed ✓
	Loose or missing connections of fence fabric to posts	Re-attach fabric to posts — None noticed ✓
	Loose fence posts	Repair or replace posts — None noticed ✓
	Cracks in post foundations	Repair or replace fence post foundations — None noticed ✓
	Woody vegetation growing onto or through fence	Remove vegetation — Patchy along westline ✓
	General deterioration	Assess need to repair or replace deteriorated sections of the fence — OKAY ✓
GROUNDWATER RECOVERY		
Manholes		
Confirm operation, including locks of doors into manholes	Any defect	Repair as needed — ALL OKAY ✓
Visual inspection of interior	Leaks, vandalism, or damage	Repair as needed — ALL OKAY ✓
Control Cabinets		
Confirm operation, including locks of doors into cabinets	Any defect	Repair as needed — ALL OKAY ✓
Piezometers TPZ-01 thru TPZ-09		
Visual inspection of piezometers	Sediment or vegetative growth over protective cover	Remove sediment and or vegetation — OKAY ✓
	Erosion around surface casing	Fill eroded area with topsoil and reseed — OKAY ✓
	Damaged/missing lock or cover	Replace or repair as needed — ALL PRESENT OKAY ✓
	Water collecting between casing and riser	Remove water — None noticed ✓
	Evidence of damage or vandalism	Repair damage — ALL OKAY ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Wetlands Treatment		
Cascade Splitter Structure		
Inspect outlet piping from splitter structure to manholes	Sedimentation blockage greater than 25%	Clean pipes ALL FOUR OKAY
Inspect corrugated pipes for sediment build up	Sedimentation blockage greater than 25% or more than 4" of build up	Clean pipes ALL FOUR OKAY
Bio Filter		
Check for burrowing animals	Burrows present	Fill burrows with mulch None noticed!
Sedimentation Pond		
Inspect for vegetation in and around pond	Vegetation	Remove Vegetation LOOKS GOOD
Animal burrows around pond	Burrows present	Fill burrows with topsoil None noticed
SF Hydraulic Control Splitter		
Assess need to operate recycle pump by reviewing previous effluent analytical results	Consistent or frequent exceedances of SPDES discharge while SF blowers are in operation	Operate recycle pump OKAY
Check pump operation	Pump does not operate	Troubleshoot and repair N/A
Surface Wetlands		
Topsoil on walls of basin berms	Sloughing, exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed OKAY
Pressure Relief Valve Inspection		Include PRV inspection form **Date:** 2-20-23
Vertical Flow Wetlands		
Check for burrowing animals	Burrows present	Fill burrows with topsoil and reseed None noticed!
Topsoil on walls of basin berms	Exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed OKAY
Dosing Siphon Structure		
Visual inspection of interior	Debris or blockage	Clean as needed ALL FIVE OKAY
Drying Bed Sump Pump		
Float Switch Elevations	Elevation of float deviates more than .25-feet	Adjust elevations to Low-100" High-61" both measured from lid frame OKAY
Swale Water Level Control Berm		
Visual Inspection	Damage such as sloughing or erosion and undesirable vegetation on dike	Repair damage by replacing rip rap to design grades. Remove vegetation None noticed
Monitor toe of levee between WLCB and river for seepage	Observation of significant seepage	Notify project team immediately OKAY

Notes:

2023

QUARTERLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION
Former Sinclair Refinery Site
Wellsville, New York

Weather 48°F cloudy

Completed By: S. WATSON

Title: Senior Tech Date: 4-17-23

Reviewed By: J. PALMER

Title: PROJ. MGR. Date: 4/24/23

Inspection required as detailed in tables 1 thru 4 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:	
CELA			
Gas Vents			
Visual inspection of gas vents	Erosion around gas vents	Fill eroded areas with topsoil and reseed — Soft — OK	✓
	Evidence of vandalism or damage	Repair damage — None	✓
Measure VOC concentrations in vents and in breathing zone downwind of gas vents	VOC concentration in excess of 1 ppm of benzene/vinyl chloride in breathing zone downwind of gas vents	Establish barricade around gas vents to prevent access attach gas vent readings. N/A THIS QUARTER. GAS VENT MONITORING NOW SEMI-ANNUAL REQUIREMENT	
Piezometers P-01 to P-06 and Wells MWR-01 to MWR-11			
Visual inspection of above grade portion of piezometers and monitoring wells	Sediment or vegetative growth over	Remove sediment or vegetation — OK	✓
	Erosion around surface casing	Fill eroded areas with topsoil and reseed — OK	✓
	Missing or damaged lock/cover cap	Replace or repair lock/cover cap — OK	✓
	Water collecting between casing and riser	Remove water — None present	✓
	Evidence of vandalism or damage	Repair damage — None noticed	✓
Surface Water Drainage System			
Visual inspection of perimeter ditch	Obstructions which could impede flow	Remove obstructions — None present	✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OK	✓
Visual inspection of culverts under trail	Obstructions which could impede flow	Remove obstructions — None present	✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OK	

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Visual inspection of drainage culvert that penetrates the flood protection dike at the north end	Obstructions which could impede flow	Remove obstructions — None noticed
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OK
Security Fence		
Visual inspection of fence on west side of CELA	Gates dragging on ground	Adjust gates to keep from dragging — OK
	Frozen locks or hinges at gates	Repair, lubricate, replace locks or hinges as needed — OK
	Holes in fence fabric	Repair holes in fence fabric — None noticed
	Loose or missing connections of fence fabric to posts	Re-attach fabric to posts — None noticed
	Loose fence posts	Repair or replace posts — None noticed
	Cracks in post foundations	Repair or replace fence post foundations — None noticed
	Woody vegetation growing onto or through fence	Remove vegetation — Small Patches of growth along west side.
	General deterioration	Assess need to repair or replace deteriorated sections of the fence — Locks OK
GROUNDWATER RECOVERY		
Manholes		
Confirm operation, including locks of doors into manholes	Any defect	Repair as needed — OK
Visual inspection of interior	Leaks, vandalism, or damage	Repair as needed — OK
Control Cabinets		
Confirm operation, including locks of doors into cabinets	Any defect	Repair as needed — OK
Piezometers TPZ-01 thru TPZ-09		
Visual inspection of piezometers	Sediment or vegetative growth over protective cover	Remove sediment and or vegetation — OK
	Erosion around surface casing	Fill eroded area with topsoil and reseed — OK
	Damaged/missing lock or cover	Replace or repair as needed — Locks in place all OK
	Water collecting between casing and riser	Remove water — None noticed
	Evidence of damage or vandalism	Repair damage — OK

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Wetlands Treatment		
Cascade Splitter Structure		
Inspect outlet piping from splitter structure to manholes	Sedimentation blockage greater than 25%	Clean pipes OK ✓
Inspect corrugated pipes for sediment build up	Sedimentation blockage greater than 25% or more than 4" of build up	Clean pipes OK ✓
Bio Filter		
Check for burrowing animals	Burrows present	Fill burrows with mulch None noticed ✓
Sedimentation Pond		
Inspect for vegetation in and around pond	Vegetation	Remove Vegetation Looks good ✓
Animal burrows around pond	Burrows present	Fill burrows with topsoil None noticed ✓
SF Hydraulic Control Splitter		
Assess need to operate recycle pump by reviewing previous effluent analytical results	Consistent or frequent exceedances of SPDES discharge while SF blowers are in operation	Operate recycle pump NA ✓
Check pump operation	Pump does not operate	Troubleshoot and repair NA ✓
Surface Wetlands		
Topsoil on walls of basin berms	Sloughing, exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed OK ✓
Pressure Relief Valve Inspection		Include PRV inspection form **Date:** 4/3/23
Vertical Flow Wetlands		
Check for burrowing animals	Burrows present	Fill burrows with topsoil and reseed None noticed ✓
Topsoil on walls of basin berms	Exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed OK ✓
Dosing Siphon Structure		
Visual inspection of interior	Debris or blockage	Clean as needed All OK ✓
Drying Bed Sump Pump		
Float Switch Elevations	Elevation of float deviates more than .25-feet	Adjust elevations to Low-100" High-61" both measured from lid frame OK ✓
Swale Water Level Control Berm		
Visual Inspection	Damage such as sloughing or erosion and undesirable vegetation on dike	Repair damage by replacing rip rap to design grades. Remove vegetation None noticed ✓
Monitor toe of levee between WLCB and river for seepage	Observation of significant seepage	Notify project team immediately OK ✓
Notes:		

3Q23

QUARTERLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION
Former Sinclair Refinery Site
Wellsville, New York

Weather 82°F partly cloudy

Completed By: S. Watson
Title: Senior Tech Date: 7-6-23
Reviewed By: J. Palmer
Title: Proj. Mgr. Date: 7/31/23

Inspection required as detailed in tables 1 thru 4 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:	
CELA			
Gas Vents			
Visual inspection of gas vents	Erosion around gas vents	Fill eroded areas with topsoil and reseed — Both okay	✓
	Evidence of vandalism or damage	Repair damage — None noticed	✓
Measure VOC concentrations in vents and in breathing zone downwind of gas vents	VOC concentration in excess of 1 ppm of benzene/vinyl chloride in breathing zone downwind of gas vents	Establish barricade around gas vents to prevent access attach gas vent readings. 7-6-23	✓
Piezometers P-01 to P-06 and Wells MWR-01 to MWR-11			
Visual inspection of above grade portion of piezometers and monitoring wells	Sediment or vegetative growth over	Remove sediment or vegetation — OKAY	✓
	Erosion around surface casing	Fill eroded areas with topsoil and reseed — OKAY	✓
	Missing or damaged lock/cover cap	Replace or repair lock/cover cap — OKAY	✓
	Water collecting between casing and riser	Remove water — NONE PRESENT	✓
	Evidence of vandalism or damage	Repair damage — NONE NOTICED	✓
Surface Water Drainage System			
Visual inspection of perimeter ditch	Obstructions which could impede flow	Remove obstructions — NONE PRESENT	✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OKAY	✓
Visual inspection of culverts under trail	Obstructions which could impede flow	Remove obstructions — NONE PRESENT	✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OKAY	✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Visual inspection of drainage culvert that penetrates the flood protection dike at the north end	Obstructions which could impede flow	Remove obstructions — NONE NOTICED
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OKAY
Security Fence		
Visual inspection of fence on west side of CELA	Gates dragging on ground	Adjust gates to keep from dragging — OKAY
	Frozen locks or hinges at gates	Repair, lubricate, replace locks or hinges as needed — OKAY
	Holes in fence fabric	Repair holes in fence fabric — NONE NOTICED
	Loose or missing connections of fence fabric to posts	Re-attach fabric to posts — NONE NOTICED
	Loose fence posts	Repair or replace posts — NONE NOTICED
	Cracks in post foundations	Repair or replace fence post foundations — NONE NOTICED
	Woody vegetation growing onto or through fence	Remove vegetation — SMALL PORTIONS OF WEST FENCE AREA WITH PATCHES OF GROWTH
	General deterioration	Assess need to repair or replace deteriorated sections of the fence — OKAY
GROUNDWATER RECOVERY		
Manholes		
Confirm operation, including locks of doors into manholes	Any defect	Repair as needed — ALL OKAY
Visual inspection of interior	Leaks, vandalism, or damage	Repair as needed — ALL OKAY
Control Cabinets		
Confirm operation, including locks of doors into cabinets	Any defect	Repair as needed — ALL OKAY
Piezometers TPZ-01 thru TPZ-09		
Visual inspection of piezometers	Sediment or vegetative growth over protective cover	Remove sediment and or vegetation — ALL OKAY
	Erosion around surface casing	Fill eroded area with topsoil and reseed — ALL OKAY
	Damaged/missing lock or cover	Replace or repair as needed — ALL OKAY
	Water collecting between casing and riser	Remove water — NONE PRESENT
	Evidence of damage or vandalism	Repair damage — NONE PRESENT

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Wetlands Treatment		
Cascade Splitter Structure		
Inspect outlet piping from splitter structure to manholes	Sedimentation blockage greater than 25%	Clean pipes CLEANED JUNE ✓
Inspect corrugated pipes for sediment build up	Sedimentation blockage greater than 25% or more than 4" of build up	Clean pipes CLEANED JUNE ✓
Bio Filter		
Check for burrowing animals	Burrows present	Fill burrows with mulch NONE NOTICED ✓
Sedimentation Pond		
Inspect for vegetation in and around pond	Vegetation	Remove Vegetation LOOKS GOOD ✓
Animal burrows around pond	Burrows present	Fill burrows with topsoil NONE NOTICED ✓
SF Hydraulic Control Splitter		
Assess need to operate recycle pump by reviewing previous effluent analytical results	Consistent or frequent exceedances of SPDES discharge while SF blowers are in operation	Operate recycle pump NA ✓
Check pump operation	Pump does not operate	Troubleshoot and repair NA ✓
Surface Wetlands		
Topsoil on walls of basin berms	Sloughing, exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed LOOK GOOD ✓
Pressure Relief Valve Inspection		Include PRV inspection form **Date:** 7-5-23 ✓
Vertical Flow Wetlands		
Check for burrowing animals	Burrows present	Fill burrows with topsoil and reseed NONE NOTICED ✓
Topsoil on walls of basin berms	Exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed OKAY ✓
Dosing Siphon Structure		
Visual inspection of interior	Debris or blockage	Clean as needed NONE NOTICED ✓
Drying Bed Sump Pump		
Float Switch Elevations	Elevation of float deviates more than .25-feet	Adjust elevations to Low-100" High-61" both measured from lid frame CORRECT ELEVATION ✓
Swale Water Level Control Berm		
Visual Inspection	Damage such as sloughing or erosion and undesirable vegetation on dike	Repair damage by replacing rip rap to design grades. Remove vegetation NONE NOTICED ✓
Monitor toe of levee between WLCB and river for seepage	Observation of significant seepage	Notify project team immediately NONE NOTICED ✓

Notes:

4Q23

QUARTERLY GROUNDWATER RECOVERY / WETLANDS TREATMENT O&M INSPECTION

Former Sinclair Refinery Site

Wellsville, New York

Weather 53°F cloudy

Completed By: S. Watson

Title: Senior Tech Date: 11-6-23

Reviewed By: J. Palmer

Title: Proj. Mgr. Date: 12/11/23

Inspection required as detailed in tables 1 thru 4 of the November 2012 O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
CELA		
Gas Vents		
Visual inspection of gas vents	Erosion around gas vents	Fill eroded areas with topsoil and reseed — Both ok ✓
	Evidence of vandalism or damage	Repair damage — None noticed ✓
Measure VOC concentrations in vents and in breathing zone downwind of gas vents	VOC concentration in excess of 1 ppm of benzene/vinyl chloride in breathing zone downwind of gas vents	Establish barricade around gas vents to prevent access attach gas vent readings. N/A ✓
Piezometers P-01 to P-06 and Wells MWR-01 to MWR-11		
Visual inspection of above grade portion of piezometers and monitoring wells	Sediment or vegetative growth over	Remove sediment or vegetation — OK ✓
	Erosion around surface casing	Fill eroded areas with topsoil and reseed — OK ✓
	Missing or damaged lock/cover cap	Replace or repair lock/cover cap — OK ✓
	Water collecting between casing and riser	Remove water — None present OK ✓
	Evidence of vandalism or damage	Repair damage — None noticed ✓
Surface Water Drainage System		
Visual inspection of perimeter ditch	Obstructions which could impede flow	Remove obstructions — None present
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OK ✓
Visual inspection of culverts under trail	Obstructions which could impede flow	Remove obstructions — None present OK ✓
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OK ✓

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Visual inspection of drainage culvert that penetrates the flood protection dike at the north end	Obstructions which could impede flow	Remove obstructions — None noticed OK
	Damaged or eroded areas	Fill eroded areas with topsoil and reseed — OK
Security Fence		
Visual inspection of fence on west side of CELA	Gates dragging on ground	Adjust gates to keep from dragging — OK
	Frozen locks or hinges at gates	Repair, lubricate, replace locks or hinges as needed — OK
	Holes in fence fabric	Repair holes in fence fabric — None noticed
	Loose or missing connections of fence fabric to posts	Re-attach fabric to posts — None noticed
	Loose fence posts	Repair or replace posts — None noticed
	Cracks in post foundations	Repair or replace fence post foundations — None noticed
	Woody vegetation growing onto or through fence	Remove vegetation — Small patches present on western fence line
	General deterioration	Assess need to repair or replace deteriorated sections of the fence — OK
GROUNDWATER RECOVERY		
Manholes		
Confirm operation, including locks of doors into manholes	Any defect	Repair as needed — All OK
Visual inspection of interior	Leaks, vandalism, or damage	Repair as needed — All OK
Control Cabinets		
Confirm operation, including locks of doors into cabinets	Any defect	Repair as needed — All OK
Piezometers TPZ-01 thru TPZ-09		
Visual inspection of piezometers	Sediment or vegetative growth over protective cover	Remove sediment and or vegetation — All OK
	Erosion around surface casing	Fill eroded area with topsoil and reseed — All OK
	Damaged/missing lock or cover	Replace or repair as needed — All OK
	Water collecting between casing and riser	Remove water — None present
	Evidence of damage or vandalism	Repair damage — None present

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Wetlands Treatment		
Cascade Splitter Structure		
Inspect outlet piping from splitter structure to manholes	Sedimentation blockage greater than 25%	Clean pipes — Light build up ok
Inspect corrugated pipes for sediment build up	Sedimentation blockage greater than 25% or more than 4" of build up	Clean pipes — Light build up ok
Bio Filter		
Check for burrowing animals	Burrows present	Fill burrows with mulch — None noticed
Sedimentation Pond		
Inspect for vegetation in and around pond	Vegetation	Remove Vegetation — ok
Animal burrows around pond	Burrows present	Fill burrows with topsoil — None noticed
SF Hydraulic Control Splitter		
Assess need to operate recycle pump by reviewing previous effluent analytical results	Consistent or frequent exceedances of SPDES discharge while SF blowers are in operation	Operate recycle pump — NA
Check pump operation	Pump does not operate	Troubleshoot and repair — n/a
Surface Wetlands		
Topsoil on walls of basin berms	Sloughing, exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed — ok.
Pressure Relief Valve Inspection		Include PRV inspection form **Date:** 12/11/23
Vertical Flow Wetlands		
Check for burrowing animals	Burrows present	Fill burrows with topsoil and reseed — None noticed
Topsoil on walls of basin berms	Exposed liner or erosion	Fill eroded areas and restore as needed / Cover exposed liner w/topsoil and reseed — ok.
Dosing Siphon Structure		
Visual inspection of interior	Debris or blockage	Clean as needed — All ok.
Drying Bed Sump Pump		
Float Switch Elevations	Elevation of float deviates more than .25-feet	Adjust elevations to Low-100" High-61" both measured from lid frame — Correct elevation
Swale Water Level Control Berm		
Visual Inspection	Damage such as sloughing or erosion and undesirable vegetation on dike	Repair damage by replacing rip rap to design grades. Remove vegetation — None noticed
Monitor toe of levee between WLCB and river for seepage	Observation of significant seepage	Notify project team immediately — None noticed

Notes:

1Q23

Pressure Relief Valve
Inspection and maintenance form
Former Sinclair Refinery Wellsville, NY

Quarterly Inspection

Relief Valve	Date	Visible Condition	Does cap rotate and slide freely	Is blower ON?	If operating is PSD fully closed	Pressure gauge reading (psi.)
SFB1-RV	2-20-23	GOOD	YES	YES	NO	6.0
SFB2-RV	2-20-23	GOOD	YES	YES	NO	5.9
SFB3-RV	2-20-23	GOOD	YES	YES	NO	6.0

Date 2-20-23

Inspector S. WATSON

2Q23

Pressure Relief Valve
Inspection and maintenance form
Former Sinclair Refinery Wellsville, NY

Quarterly Inspection

Relief Valve	Date	Visible Condition	Does cap rotate and slide freely	Is blower ON?	If operating is PSD fully closed	Pressure gauge reading (psi.)
SFB1-RV	4-3-23	(Good)	YES	NO	NA	NA
SFB2-RV	4-3-23	(Good)	YES	NO	NA	NA
SFB3-RV	4-3-23	(Good)	YES	NO	NA	NA

Date 4-3-23

Inspector S. Watts

3Q23

Pressure Relief Valve
Inspection and maintenance form
Former Sinclair Refinery Wellsville, NY

Quarterly Inspection

Relief Valve	Date	Visible Condition	Does cap rotate and slide freely	Is blower ON?	If operating is PSD fully closed	Pressure gauge reading (psi.)
SFB1-RV	7-5-23	Good	YES	NO	NA	NA
SFB2-RV	7-5-23	Good	YES	NO	NA	NA
SFB3-RV	7-5-23	Good	YES	NO	NA	NA

Date 7-5-23

Inspector S. Watson

4Q23

Pressure Relief Valve
Inspection and maintenance form
Former Sinclair Refinery Wellsville, NY

Quarterly Inspection

Relief Valve	Date	Visible Condition	Does cap rotate and slide freely	Is blower ON?	If operating is PSD fully closed	Pressure gauge reading (psi.)
SFB1-RV	12/11/23	GOOD	YES	YES	NO	6.0
SFB2-RV	12/11/23	GOOD	YES	YES	NO	5.9
SFB3-RV	12/11/23	GOOD	YES	YES	NO	5.9

Date 12-11-23

Inspector S. CUATSO

Pressure Relief Valve
Inspection and Maintenance Form
Former Sinclair Refinery Wellsville, NY

Annual Function Test

1. Record the system pressure shown on the pressure gauge as the found operating pressure.
2. Turn off blower, remove all weights and cap from PRV.
3. Inspect cap and piston for signs of wear, deformation, and corrosion. Lubricate cap and mating surface with 30 weight oil.
4. Replace cap without any weights, open system valve and turn on blower.
5. Once system is fully operational and unit is diffusing air, slowly add weights to the cap until maintaining a operating pressure of 6.0 psi.
6. Record system pressure shown on the pressure gauge as the left operating pressure.

PRV Location	As found psi.	As left psi.
SFB1-RV	6.0	6.0
SFB2-RV	5.9	5.9
SFB3-RV	5.9	5.9

Comments _____

Date 12-11-23

Inspector S. Watson

SEMI ANNUAL GROUNDWATER RECOVERY/ WETLAND TREATMENT SYSTEM CHECKLIST

Former Sinclair Refinery Site

Wellsville, New York

Completed By: S. CIATTOCI

Title: Senior Tech Date: 4-17-23

Reviewed By: J. PALMER

Title: PROJ. MGR. Date: 4/24/23

Inspection required as detailed in Tables 2 & 3 of the O&M Plan.

Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Date Completed/Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery Manholes A-H		
Perform monthly data logger maintenance	YTD: 1/16/23, 2/13/23, 3/20/23, 4/14/23	Calibrate recorder instruments, change out desiccant caps, clean probes, etc. Documented on monthly water level sheets
Piezometers TPZ-01 to TPZ-09		
Verify monthly data logger maintenance performed	YTD: 1/16/23, 2/13/23, 3/20/23, 4/14/23	Calibrate recorder instruments, change out desiccant caps, clean probes, etc. Documented on monthly water level sheets
Groundwater Elevations		
Monitor GW at list of synoptic wells	(April & October)	**First Event Date:** 4-14-23 **Second Event Date:**
Wetland Treatment Sedimentation pond		
Assess need to clean pond based on build up, influent, effluent concentration and flow.	Operator Judgment	Clean Pond ANNUAL CLEANING DATE TBD.
Groundwater Quality		
Collect samples from Manholes A thru H		**Date:** ANNUAL MANHOLE SAMPLING SCHEDULE TBD

Notes: * Blower grease schedule as per manufacturer recommendation-SF blowers -weekly during operation / Biofilter once in June and December.

SEMI ANNUAL GROUNDWATER RECOVERY/ WETLAND TREATMENT SYSTEM CHECKLIST
Former Sinclair Refinery Site
Wellsville, New York

Completed By: J. PALMER
Title: PROJ. MGR. Date: 12/20/23
Reviewed By: J. Rhodes
Title: Senior Geologist Date: 12/26/23

Inspection required as detailed in Tables 2 & 3 of the O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Date Completed/Trigger for Corrective Action:	Corrective Action Completed/Comment:
Groundwater Recovery Manholes A-H		
Perform monthly data logger maintenance	4/16/23, 2/13/23, 3/20/23, 4/14/23 5/15/23, 6/29/23, 8/10/23, 9/18/23	Calibrate recorder instruments, change out desiccant caps, clean probes, etc. Documented on monthly water level sheets
Piezometers TPZ-01 to TPZ-09	10/19/23, 11/20/23, 12/20/23	
Verify monthly data logger maintenance performed	SAME DATES AS MANHOLES A-H LISTED ABOVE	Calibrate recorder instruments, change out desiccant caps, clean probes, etc. Documented on monthly water level sheets
Groundwater Elevations		
Monitor GW at list of synoptic wells	(April & October)	**First Event Date:** 4/14/23 **Second Event Date:** 10/19/23
Wetland Treatment Sedimentation pond		
Assess need to clean pond based on build up, influent, effluent concentration and flow.	Operator Judgment	Clean Pond ANNUAL SED POND CLEANING: 6/9/23 - 6/21/23
Groundwater Quality		
Collect samples from Manholes A thru H		**Date:** 6/6/23 - 6/7/23

Notes: * Blower grease schedule as per manufacturer recommendation-SF blowers -weekly during operation / Biofilter once in June and December.

ANNUAL CELA / GROUNDWATER RECOVERY / WETLAND TREATMENT / RIVER CHANNEL INSPECTION
Former Sinclair Refinery Site
Wellsville, New York

Completed By: J. PALMER
Title: PROJ. MGR. Date: 12/20/23
Reviewed By: J. Brindes
Title: Senior Geologist Date: 12/22/23

Inspection required as detailed in Tables 1 thru 4 of the O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed.

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
CELA		
Inspection of CELA grade	Erosion, build up, grade loss, sloughing, ponding water, and or slope instability	Repair as needed to restore original grades GRADE APPEARS OK
Inspection of vegitation on CELA	Stressed vegetation, trees, and or undesirable vegetation	Remove trees, weeds, or undesirable vegetation. WOODY GROWTH REMOVED DURING ANNUAL BRUSH HOGGING OF CELA
Inspection of CELA surface	Burrows	Trap or evict burrowing animals. Fill burrows with topsoil and replant surrounding area. FILLED 2 CHUCK HOLES 10/23/24
Inspection of CELA surface	Evidence of fires, vandalism, or litter	Repair and replant damaged areas. Remove litter. NO ISSUES NOTED
Inspection of trails and signage	Erosion of trail surface Damaged or vandalized signage	Fill eroded areas with aggregate, repair damage and or vandalism. ERODED AREAS FILLED/COMPACTED 10/23/23
Collect water levels at 11 locations around CELA		Date: COMPLETED 6/9/23 - 6/12/23
Once every two years collect samples from 11 groundwater	Analyze samples for arsenic, beryllium, chromium, copper, lead	**Event Dates:** COMPLETED 6/3/23 - 6/12/23
Once every two year LNAPL monitoring and removal	Assess monitoring wells MWR-02 and MWR-03 for presence of LNAPL	Remove accumulated LNAPL, properly dispose removed LNAPL **Date:** WELL WAS SOCKED PRIOR TO SAMPLING ON 6/12/23
Groundwater Treatment		
Manholes		
Maintain and calibrate flow meters	Manually calibrate removed flow cell	**Date:** ANNUAL FLOW CELL ZERO CALIBRATION : 9/15/23

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Conveyance Lines		
Exercise all valves on lines that connect manholes to the conveyance lines	Valves do not operate properly	Repair as needed **Date:** 9/15/23
Exercise valves for by-pass lines	Valves do not operate properly	Repair as needed **Date:** 6/9/23 AT BEGINNING OF SED POND CLEANING
Inspect interior / exterior of cleanout boxes (5)	Vegetation, damage, vandalism, or leaks	Remove vegetation, repair damage and or leaks. **Date:** ANNUAL CLEANOUT INSPECTION: 6/26/23
Collect samples from 4 wells MW-78, OW-4, MW-71, and MW-55R		**Date:** 6/6/23 - 6/7/23
Wetland Treatment		
Treatment System performance	Calculate annual discharge from treatment system. (June)	**Date:** 12/27/22 - 12/26/23 **Total:** 64,700,619
Treatment System performance	Influent	Analyse influent SPDES samples for parameter List "B" (Analysis plan in Appendix I) **Date:** 6/7/23
Treatment System performance	Effluent	Analyse effluent SPDES samples for parameter List "B" (Analysis plan in Appendix I) **Date:** 6/7/23
Bio filter		
Check media depth	Freeboard greater than 4 inches	Add pine bark mulch **Date:** NOT NEEDED IN 2023
Sedimentation pond		
Cascade splitter structure weir gate exercising	Gate does not operate full range	Repair as needed **Spliiter weirs set in single position not to be moved.**
Set sedimentation pond outlet for Summer operation	After potential of freezing has passed (Spring)	**Date:** NO LONGER PERFORMED
Set sedimentation pond outlet for Winter operation	Before potential of freezing for more than one inch of ice. (Winter)	**Date:** NO LONGER PERFORMED
Hydraulic control splitter structure		
Exercise weir gates	Gate does not operate full range	Repair as needed **Date:** 6/9/23 AT BEGINNING OF SED POND CLEANING

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Surface flow wetlands		
Measure topsoil thickness on vegetative platforms	~~Topsoil thickness less than 3 inches~~	~~Add topsoil to raise thickness to six inches.~~ **Requirement eliminated per USEPA letter dated 09/19/18.**
Exercise weir gates	Gate does not operate full range	Repair as needed **Annual Exercise Date:** 10/16/23
Set water level 4 to 6 inches above vegetative benches for Spring operation	After potential of freezing has passed (In Spring)	**Date:** 5/3/23, 5/15/23, 5/22/23 LOWERED IN APPROX 6" INCREMENTS
Set water level 18 inches above vegetative benches for Winter operation	Before potential of freezing for more than one inch of ice. (Late Fall)	**Date:** 10/16/23, 10/23/23, 10/30/23 RAISED IN APPROX. 6" INCREMENTS
Once every two years survey dikes around and between wetlands to assess settlement	~~Settlement greater than 0.1 foot from design elevation of 1508.5 ft amsl or previous survey~~	~~Develop and implement plan to address settlement with project team~~ **Requirement eliminated per USEPA letter dated 09/19/18.**
Vertical flow ponds		
Exercise weir gates	Gate does not operate full range	Repair as needed **Date:** 6/13/23 EXERCISED DURING VAC. OPERATIONS
Visual inspection of limestone base	More than .5" of iron precipitate on surface of limestone	Remove and replace upper 12" of limestone EVALUATED IN 2021 - RENOVATION PENDING
Evaluate limestone effectiveness	pH level on a constant downward trend toward discharge limit	Remove and replace limestone EVALUATED IN 2021 - RENOVATION PENDING
Once every two years survey dikes around and between wetlands to assess settlement	~~Settlement greater than 0.1 foot from design elevation of 1508.5 ft. msl or previous survey~~	~~Develop and implement plan to address settlement with project team~~ **Requirement eliminated per USEPA letter dated 09/19/18.**
Drying beds		
Exercise drainage valves	Valves do not operate properly	Repair as needed **Date:** 6/9/23
Confirm sand layer in base of bed is adequate.	Sand layer less than 12" thick	Add sand **Date:** 7/17/23 CONFIRMED SAND THICKNESS TO BE ADEQUATE FOLLOWING WASTE DISPOSAL/BED RENOVATION COMPLETED IN 2022.
River Channel Completed annually or after high water event, document on river inspection sheet with pictures/log		
Rip-rap revetment on East river bank near CELA	Damage such as sloughing or erosion	Repair damage by replacing rip-rap to design grades (Inspection and repair during low flow (<180 cfs) **Date:** 6/26/23 ALL OK
Rip-rap revetment between CELA and Genesee river	Damage such as sloughing or erosion	Repair damage by replacing rip-rap to design grades (Inspection and repair during low flow (<180 cfs) **Date:** 6/26/23 ALL OK
Inspection of trail top of dike	Water ponding or ruts	Fill low areas **Date:** 6/26/23 ALL OK
Rip-rap revetment and dike on West river bank below lower drop structure	Damage such as sloughing or erosion	Repair damage by replacing rip-rap to design grades (Inspection and repair during low flow (<180 cfs) **Date:** 6/26/23 ALL OK

Inspection/Monitoring Action:	Trigger for Corrective Action:	Corrective Action Completed/Comment:
Dike between CELA & River		
Once every five years survey elevations of top of dike CELA and river at 200-foot intervals to assess settlement. Survey toe of sloe to check for displacement or settlement of rip-rap revetment	Excessive settlement or movement	Review with project team to develop plan forward **Date:** NEXT REQUIRED IN 2027 - LAST COMPLETED 4/13/22
Rip-rap revetment and dike on west river bank downstream of lower drop structure		
Once every five years survey toe of slope to check for displacement or settlement of rip rap revetment	Excessive settlement or movement	Review with project team to develop plan forward **Date:** NEXT REQUIRED IN 2027 - LAST COMPLETED 4/13/22

Notes:

Semi Annual Gas Vent Monitoring
Former Sinclair Refinery Site
Wellsville, New York

Completed By: S. Water

Title: Senior Tech Date: 5-20-23

Reviewed By: J. Palmer

Title: Proj. Mgr. Date: 5/31/23

Weather 72°F partly cloudy Wind direction / mph N→S light winds 1-2 mph

Equipment: Mini-Rae 3000 PID

Drager pump w/ Benzene 0.5-10 ppm and Vinyl Chloride 0.5- 30 ppm tubes

PID (Sample within 3 ft. radius of vent location)

Gas Vent	Downwind Reading	Upwind Reading	Gas vent reading
V-1	0.0 ppm	0.0 ppm	1.3 ppm
V-13	0.0 ppm	0.0 ppm	8.2 ppm

Drager tubes (Sample within 3 ft. radius of vent location) *Always wear gloves when handling drager tubes*

Benzene	Downwind Reading	Number of pump strokes
V-1	ppm	
V-13	ppm	
Vinyl Chloride	**Downwind Reading**	
V-1	ppm	
V-13	ppm	

Notes:

Semi Annual Gas Vent Monitoring
Former Sinclair Refinery Site
Wellsville, New York

Completed By: S. Watson

Title: Senior Tech Date: 7-6-23

Reviewed By: J. Palmer

Title: Proj. Mgr. Date: 9/9/23

Weather 84°F partly cloudy **Wind direction / mph** Southerly 5mph approx.

Equipment: Mini-Rae 3000 PID

Drager pump w/ Benzene 0.5-10 ppm and Vinyl Chloride 0.5- 30 ppm tubes

PID **(Sample within 3 ft. radius of vent location)**

Gas Vent	Downwind Reading	Upwind Reading	Gas vent reading
V-1	0.0 ppm	0.0 ppm	19.3 ppm
V-13	0.0 ppm	0.0 ppm	39.8 ppm

Drager tubes (Sample within 3 ft. radius of vent location) ***Always wear gloves when handling drager tubes***

Benzene	Downwind Reading	Number of pump strokes
V-1	ppm	
V-13	ppm	
Vinyl Chloride	**Downwind Reading**	
V-1	ppm	
V-13	ppm	

Notes:

River Inspection Checklist
Former Sinclair Refinery Site
Wellsville, New York

Completed By: S. Watson
Title: Senior Tech Date: 6-26-23
Reviewed By: J. Palmer
Title: Proj. Mgr. Date: 7/6/23

Visual inspection required as detailed inTable 4 of the O&M Plan.
Indicate satisfactory conditions with a check next to the monitoring action and briefly describe if other than satisfactory. If inspection completed on different date please indicate date completed. Include photos and log

Type of Inspection	After high water period	Annual low flow (<180 cfs)	57.2 cfs at time of inspection

Inspection/Monitoring Action:	Indicate Satisfactory condition with a check	Corrective Action Completed/Comment:
East River Bank across from CELA	Dike Station: 0+00 to 5+00	
Settlement, Sloughing, Caving, or loss of Grade		None noticed ✓
Rip-Rap revetment damage		None noticed ✓
Evidence of vandalism		None noticed ✓
Accumulation of debris or trash		None noticed ✓
West River Dike adjacent to CELA	Dike Station: 2+40 to 22+17	
Settlement, Sloughing, Caving, or loss of Grade		None noticed ✓
Rip-Rap revetment damage		None noticed ✓
Evidence of vandalism		None noticed ✓
Accumulation of debris or trash		None noticed ✓
Water ponding or ruts on trail at top of dike		None present ✓

Inspection/Monitoring Action:	Indicate Satisfactory condition with a check	Corrective Action Completed/Comment:

West River Bank below lower drop structure

Settlement, Sloughing, Caving, or loss of Grade		None noticed ✓
Rip-Rap revetment damage		None noticed ✓
Evidence of vandalism		None noticed ✓
Accumulation of debris or trash		None noticed ✓

Notes:

APPENDIX B

2023 SAMPLING FIELD FORMS

MS/MSD

On-Site Technical Services, Inc.

Low Flow Groundwater Purging and Sampling

Project: Wellsville OU-2 **Date:** 6/7/23

Monitoring Well: MW-55R **Sample ID:** MW55R-0623 **Arrival Time:** 1202

Weather Conditions

Temp. 70° F (X) Sunny ( ) Drizzle ( ) Light Rain ( ) Med. Rain ( ) Hvy. Rain ( ) Cloudy ( ) Snow HAZY

Wind Conditions: 0-5 mph

Well Condition Checklist

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

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

Depth & Purging Information

TD: 19.82 ft – SWL: 8.92 ft x 0.16 (2" well) = 1 Well Volume: 1.7 gals Purge Vol: 3.6 gals.

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N)

Purging/Sampling Method: ( ) Submersible (X) Bladder ( ) Peristaltic

Start Purge: 1220 Pumping Rate 500 ml / 107 sec. Start Sampling: 1320 Purge Duration: 60 min

Field Parameters

Meter YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.25	1300	6.90	565.0	3.82	1.03	14.7	-101.9	8.92
2.6	1305	6.90	566.7	3.08	0.96	14.7	-100.3	8.92
2.9	1310	6.91	566.1	2.13	1.14	14.6	-101.2	8.92
3.25	1315	6.91	566.9	1.74	0.92	14.6	-100.8	8.92
3.6	1320	6.91	567.1	1.25	1.04	14.6	-102.1	8.92

Stabilization Criteria: 3 consecutive readings ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity

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

Final sample oil sheen: (X) None ( ) Light ( ) Med ( ) Heavy ( ) NAPL

Sample Odor: (Y) or (N) explain:

Other Observations/Comments:

Analysis Requested: VOC's + SVOC's Number of Containers: 10

Well Sampling Completion: Time _____ Date 6/7/23 Samplers K DyE

On-Site Technical Services, Inc.

Low Flow Groundwater Purging and Sampling

Project: Wellsville OU-2 **Date:** 6-7-23

Monitoring Well: MW-71 **Sample ID:** MW71-0623 **Arrival Time:** 1007

Weather Conditions

Temp. 60 ° F (X) Sunny ( ) Drizzle ( ) Light Rain ( ) Med. Rain ( ) Hvy. Rain ( ) Cloudy ( ) Snow Hazy

Wind Conditions: 0-5 mph Hazy from Wild Fires in Canada

Well Condition Checklist

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

Well Visibility (paint): OK Well Label: OK Comment: 6/6-1030-S.W. Socked well with 1-2" Sock

Depth & Purging Information

TD: 23.38 ft – SWL: 15.17 ft x 0.16 (2" well) = 1 Well Volume: 1.3 gals Purge Vol: 4.1 gals.

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N)

Purging/Sampling Method: ( ) Submersible (X) Bladder ( ) Peristaltic

Start Purge: 1015 Pumping Rate: 500ml 180 sec Start Sampling: 1115 Purge Duration: 60 min

Field Parameters

Meter YSI (sn: 14K100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.0	1050	6.80	481.6	3.99	0.39	9.4	-82.1	15.45
2.6	1055	6.79	485.6	1.27	0.31	9.7	-83.8	15.45
3.0	1100	6.79	485.8	1.52	0.29	9.6	-84.4	15.46
3.3	1105	6.79	486.2	1.05	0.30	9.6	-85.7	15.46
3.75	1110	6.79	486.9	1.28	0.31	9.7	-87.1	15.45
4.1	1115	6.79	487.4	1.08	0.30	9.6	-87.5	15.47

Stabilization Criteria: 3 consecutive readings ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity

Sample Collection Method: Bladder Sample clarity/color: Clear No Color

Final sample oil sheen: (X) None ( ) Light ( ) Med ( ) Heavy ( ) NAPL

Sample Odor: (Y) or (N) explain: Light LNAPL odor

Other Observations/Comments: 6/7 Pulled 1-2" Sock from Well with Slight LNAPL Smear on Bottom of Sock.

Analysis Requested: VOC's + SVOC's Number of Containers: 5

Well Sampling Completion: Time 1146 Date 6/7/23 Samplers K. Dye

On-Site Technical Services, Inc.

Low Flow Groundwater Purging and Sampling

Project: Wellsville OU-2 **Date:** 6-7-23

Monitoring Well: OW-4 **Sample ID:** OW4-0623 **Arrival Time:** 0804

Weather Conditions

Temp. 46 ° F ( ) Sunny ( ) Drizzle ( ) Light Rain ( ) Med. Rain ( ) Hvy. Rain (X) ~~Cloudy~~ Hazy ( ) Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

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

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

Depth & Purging Information

TD: 22.00 ft – SWL: 14.71 ft x 0.16 (2" well) = 1 Well Volume: 4.7 gals Purge Vol: 3.9 gals.

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N)

Purging/Sampling Method: ( ) Submersible (X) Bladder ( ) Peristaltic

Start Purge: 0815 Pumping Rate: 500ml 84 sec Start Sampling: 0920 Purge Duration: 65 min

Field Parameters

Meter YSI (sn: 14L100804), Hach 2100P (sn: 22070205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.3	0900	6.26	668.3	4.81	1.24	7.9	46.0	15.13
2.75	0905	6.28	676.8	6.03	1.26	8.0	46.9	15.15
3.1	0910	6.30	679.0	5.17	1.18	8.0	48.1	15.15
3.5	0915	6.32	683.6	4.28	1.11	8.2	50.9	15.14
3.9	0920	6.35	688.2	4.20	1.13	8.2	51.7	15.14

Stabilization Criteria: 3 consecutive readings ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity

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

Final sample oil sheen: (X) None ( ) Light ( ) Med ( ) Heavy ( ) NAPL

Sample Odor (Y) or (N) explain: Light Sweet Petroleum odor

Other Observations/Comments:

Analysis Requested: VOC's + SVOC's Number of Containers: 5

Well Sampling Completion: Time 0955 Date 6-7-23 Samplers K Dye

Dup 1
1405

On-Site Technical Services, Inc.

Low Flow Groundwater Purging and Sampling

Project: Wellsville OU-2 **Date:** 6/6/23

Monitoring Well: MW-78 **Sample ID:** MW78-0623 **Arrival Time:** 1244

Weather Conditions

Temp. 73 F (X) Sunny ( ) Drizzle ( ) Light Rain ( ) Med. Rain ( ) Hvy. Rain ( ) Cloudy ( ) Snow Hazy

Wind Conditions: light Wind Smokey Haze from Canada Wild Fires

Well Condition Checklist

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

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

Depth & Purging Information

TD: 25.20 ft – SWL: 17.37 ft x 0.16 (2" well) = 1 Well Volume: 1.25 gals Purge Vol: 3.75 gals.

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N)

Purging/Sampling Method: ( ) Submersible (X) Bladder ( ) Peristaltic

Start Purge: 1250 Pumping Rate: 500ml 108sec Start Sampling: 1400 Purge Duration: 70 min

Field Parameters

Meter YSI (sn: 14L100804), Hach 2100P (sn: 2207420S) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.0	1335	6.03	306.4	0.87	0.34	12.9	29.0	17.69
2.3	1340	6.04	308.7	1.36	0.33	12.6	26.5	17.69
2.75	1345	6.05	310.3	0.84	0.31	12.8	24.8	17.64
3.1	1350	6.06	311.6	0.90	0.31	12.8	23.3	17.67
3.4	1355	6.07	313.0	0.84	0.29	12.7	21.4	17.63
3.75	1400	6.07	313.9	0.55	0.28	12.8	20.1	17.66

Stabilization Criteria: 3 consecutive readings ± 0.1 pH, ±3% conductivity, ±10 mv ORP, ±10% DO, ±10% Turbidity

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

Final sample oil sheen: (X) None ( ) Light ( ) Med ( ) Heavy ( ) NAPL

Sample Odor: (Y) or (N) explain:

Other Observations/Comments:

Analysis Requested: Voc's + SVOC's Number of Containers: 5+Dup 1

Well Sampling Completion: Time 1415 Date 6/6/23 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-8-23

Monitoring Well: MWR-01 **Sample ID:** MWR1-0623 **Arrival Time:** 1414

Weather Conditions

Temp. 62° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: light Wind

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 10.40 ft TD 33.30 ft Start Purge: 1420

LNAPL Present: (Y)(N) Well Socked Prior to Purging: (Y)(N) How Many? ____ Sock Saturation: ____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml/71 sec Start Sampling: 1520 Purge Duration: 60 min Purge Vol: 4.6

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22070225) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.5	1455	6.42	470.9	22.1	1.93	11.1	17.7	10.42
2.9	1500	6.42	470.8	21.4	0.49	11.1	14.1	10.48
3.3	1505	6.42	468.5	17.5	0.38	11.1	13.0	10.44
3.8	1510	6.42	471.0	16.7	0.44	11.1	11.9	10.50
4.25	1515	6.42	469.4	11.1	0.40	11.1	13.5	10.48
4.6	1520	6.42	470.6	11.9	0.38	11.1	12.2	10.46

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

Final Sample clarity\color: Clear No Color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: VOCs + Metals Number of Containers: 8

Well Sampling Completion: Time 1538 Date 6-8-23 Samplers KDyE

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-12-23

Monitoring Well: MWR-02 **Sample ID:** MWR2-0623 **Arrival Time:** 1100

Weather Conditions

Temp. 70° F ( ) Sunny ( ) Partly Cloudy ( ) Cloudy (X) Light Rain med ( ) Heavy Rain ( ) Snow

Wind Conditions: light wind

Well Condition Checklist

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

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

Depth & Purging Information

DTP 14.98

SWL: 15.00 ft TD 38.42 ft Start Purge: 1115

LNAPL Present: (Y) (N) Well Socked Prior to Purging (Y) (N) How Many? 3-1' Sock Saturation: Full Saturation

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml/76 sec Start Sampling: 1215 Purge Duration: 60 min Purge Vol: 4.4

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22070205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.5	1155	6.65	605.7	3.06	0.25	12.0	-106.5	15.11
2.7	1200	6.67	606.7	2.16	0.23	12.1	-106.8	15.11
3.4	1205	6.65	608.1	2.62	0.24	12.2	-107.3	15.10
3.9	1210	6.65	608.7	2.61	0.19	12.1	-107.7	15.11
4.4	1215	6.65	609.4		0.20	12.1	-108.1	15.09

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

Final Sample clarity\color: Clear No Color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: ( ) None (X) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments: 6-6-23. S. Watson Socked MWR2 with 3-1' Socks. DTP = 14.95 DTW = 15.03.

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Time 1241 Date 6-12-23 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-12-23

Monitoring Well: MWR03 **Sample ID:** MWR3-0623 **Arrival Time:** 0857

Weather Conditions

Temp. 66° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy (X) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: light wind

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 15.09 ft TD 29.94 ft Start Purge: 0900

LNAPL Present: (Y)(N) Well Socked Prior to Purging: (Y)(N) How Many? _____ Sock Saturation: _____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml 78 sec Start Sampling: 1005 Purge Duration: 65 min Purge Vol: 3.9

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: ( ) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.25	0945	6.61	3823	5.15	0.59	14.0	-21.2	15.12
2.75	0950	6.61	382.8	4.65	0.46	13.9	-22.4	15.11
3.1	0955	6.61	381.5	4.99	0.37	13.9	-23.3	15.12
3.5	1000	6.61	382.9	4.10	0.33	13.8	-23.6	15.12
3.9	1005	6.61	382.1	3.87	0.29	13.9	-24.3	15.11

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

Final Sample clarity\color: Clear No Color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Time 1030 Date 6-12-23 Samplers K Dye

86.7% 8.48 20.2°C

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-9-23

Monitoring Well: MWR-04 **Sample ID:** MWR4-0623 **Arrival Time:** 1222

Weather Conditions

Temp. 60° F ( ) Sunny (X) Partly Cloudy (X) Cloudy (X) Light Rain (X) Heavy Rain ( ) Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 15.23 ft TD 25.29 ft Start Purge: 1230

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N) How Many? _____ Sock Saturation: _____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 5x1m | 86 sec Start Sampling: 1325 Purge Duration: 55 min Purge Vol: 3.75

Field Parameters

Meters: YSI (sn: 14100854), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.0	1325	6.41	201.0	20.0	0.37	10.7	92.4	15.33
2.4	1310	6.41	201.1	17.6	0.32	10.7	90.7	15.34
2.8	1315	6.42	201.2	15.3	0.29	10.6	88.4	15.33
3.25	1320	6.42	201.1	12.7	0.28	10.8	87.2	15.32
3.75	1325	6.42	201.2	8.38	0.28	10.8	85.9	15.33

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

Final Sample clarity\color: Clear w/Black Particulates Sample Odor (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Time 1344 Date 6-9-23 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-9-23

Monitoring Well: MWR-05 **Sample ID:** MWR5-0623 **Arrival Time:** 1045

Weather Conditions

Temp. 59 ° F ( ) Sunny (X) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: light Breeze

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 14.67 ft TD 31.70 ft Start Purge: 1050

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N) How Many? _____ Sock Saturation: _____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml Start Sampling: 1150 Purge Duration: 60 min Purge Vol: 4.4

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.0	1125	6.27	158.9	4.25	0.70	10.7	135.6	14.69
2.5	1130	6.27	159.0	5.34	0.45	10.7	136.9	14.67
3.9	1135	6.26	158.8	3.91	0.35	10.8	138.0	14.69
3.4	1140	6.27	158.8	3.99	0.28	11.0	139.6	14.70
3.9	1145	6.27	158.6	4.42	0.27	11.3	139.9	14.70
4.4	1150	6.28	158.7	3.13	0.25	11.7	139.5	14.69

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

Final Sample clarity\color: Clear No Color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Time 1210 Date 6-9-23 Samplers K DyE

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-9-23

Monitoring Well: MWR-06 **Sample ID:** MWR6-0623 **Arrival Time:** 0900

Weather Conditions

Temp. 55 ° F ( ) Sunny (X) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 13.89 ft TD 38.24 ft Start Purge: 0905

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N) How Many? _____ Sock Saturation: _____

Purging Method: ( ) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml 77 sec Start Sampling: 1005 Purge Duration: 60 min Purge Vol: 4.66 KD

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.25	0940	6.43	299.8	12.9	0.29	10.2	46.0	14.08
2.75	0945	6.43	300.1	7.75	0.26	10.3	45.6	14.08
3.1	0950	6.43	300.2	6.02	0.24	10.3	47.2	14.09
3.6	0955	6.43	300.3	7.69	0.22	10.5	48.9	14.08
4.1	1000	6.43	300.5	5.33	0.22	10.5	49.8	14.09
4.6	1005	6.43	300.6	4.74	0.23	10.5	51.5	14.10

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

Final Sample clarity\color: Clear No Color Sample Odor (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

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

Well Sampling Completion: Time 1038 Date 6-9-23 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-9-23

Monitoring Well: MWR-07 **Sample ID:** MWR7-0623 **Arrival Time:** 0736

Weather Conditions

Temp. 49 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

Bump posts: NA Pro. casing/lock: ok Surface pad: ok

Well Visibility (paint): ok Well Label: ok Comment:

Depth & Purging Information

SWL: 13.15 ft TD 38.24 ft Start Purge: 0750

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N) How Many? _____ Sock Saturation: _____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml/81 sec. Start Sampling: 50 min. Purge Duration: 0840 Purge Vol: 3.6

KD

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.0	0820	6.26	170.1	2.59	0.34	9.2	133.6	14.03
2.4	0825	6.26	170.4	3.46	0.40	9.2	134.9	14.02
2.8	0830	6.26	170.9	2.08	0.45	9.3	136.2	14.04
3.25	0835	6.26	170.0	1.76	0.35	9.4	138.0	14.03
3.6	0840	6.26	170.7	1.13	0.31	9.4	139.6	14.04

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

Final Sample clarity\color: Clear No Color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments: Some Floating Black Particulates

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Time 0854 Date 6-9-23 Samplers KDyE

95.9% 958 14.1

Dup2

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-8-23

Monitoring Well: MWR-08 **Sample ID:** MWR8-0623 **Arrival Time:** 1230

Weather Conditions

Temp. 64 ° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 14.59 ft TD 29.34 ft Start Purge: 1240

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N) How Many? ____ Sock Saturation: ____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml 81 sec Start Sampling: 1340 Purge Duration: 60 min Purge Vol: 4.0

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)	
2.8	1220	6.51	433.5	14.1	0.34	9.6	87.3	15.11	Outer
3.1	1225	6.52	433.0	11.7	0.45	9.7	88.5	15.12	Casing
3.4	1230	6.52	432.7	12.6	0.39	9.9	90.0	15.11	
3.75	1235	6.52	432.6	9.26	0.37	10.4	89.2	15.11	
4.0	1340	6.52	432.9		0.39	10.3	87.4	15.12	

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

Final Sample clarity\color: Clear No Color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: VOCs + Metals Number of Containers: 4+Dup2

Well Sampling Completion: Time 1409 Date 6-8-23 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York Date: 6-8-23

Monitoring Well: MWR-09 Sample ID: MWR9-0623 Arrival Time: 0930

Weather Conditions

Temp. 56° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy ( ) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: 0-5 mph Hazy-Smoke

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 11.38 ft TD: ~~33.28~~ outer casing ft Start Purge: 0935

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N) How Many? ____ Sock Saturation: ____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml/82 sec Start Sampling: 1035 Purge Duration: 60 min Purge Vol: 4.0

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
2.0	1010	6.33	406.0	33.6	0.43	9.6	34.6	11.48 outer casing
2.4	1015	6.33	405.7	39.9	0.46	9.7	36.5	11.45
2.8	1020	6.33	406.1	36.0	0.63	9.8	37.5	11.51
3.25	1025	6.33	406.3	34.0	0.65	9.8	38.5	11.49
3.6	1030	6.33	405.9	29.1	0.41	10.0	36.9	11.49
4.0	1035	6.33	406.1	27.4	0.57	10.1	35.1	11.48

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

Final Sample clarity\color: ~~Bladder TOM/KD~~ Clear no color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: ( ) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Time 1103 Date 6-8-23 Samplers KD/E

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-8-23

Monitoring Well: MWR-10 **Sample ID:** MWR10-0623 **Arrival Time:** 0730

Weather Conditions

Temp. 48° F ( ) Sunny (X) Partly Cloudy ( ) Cloudy ( ) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: 0-5 mph

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 10.06 ft TD 33.50 ft Start Purge: 0740

LNAPL Present: (Y) (N) Well Socked Prior to Purging: (Y) (N) How Many? ____ Sock Saturation: ____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml/81 sec Start Sampling: 0900 Purge Duration: 100 min Purge Vol: 5.5

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
3.5	0835	6.43	480.1	41.1	0.38	9.0	-30.7	10.10
3.9	0840	6.43	480.3	36.0	0.46	8.9	-33.3	10.10
4.3	0845	6.43	481.1	30.5	0.51	9.0	-31.8	10.09
4.75	0850	6.43	480.9	36.9	0.32	9.0	-32.8	10.10
5.1	0855	6.44	481.5	37.8	0.58	9.0	-33.8	10.11
5.5	0900	6.44	481.1	36.0	0.44	9.0	-32.3	10.10

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

Final Sample clarity\color: Slightly Cloudy light Orange tint Sample Odor: (Y) or (N) Explain: Light Hydrocarbon like odor

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: Voc + Metals Number of Containers: 4

Well Sampling Completion: Time 0927 Date 6-8-23 Samplers K Dye

On-Site Technical Services, Inc.

Groundwater Purging and Sampling

Project: OU-1 Wellsville, New York **Date:** 6-8-23

Monitoring Well: MWR-11 **Sample ID:** MWR11-0623 **Arrival Time:** 1108

Weather Conditions

Temp. 62° F ( ) Sunny ( ) Partly Cloudy (X) Cloudy (X) Light Rain ( ) Heavy Rain ( ) Snow

Wind Conditions: 0 light wind

Well Condition Checklist

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

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

Depth & Purging Information

SWL: 11.15 ft TD 27.60 ft Start Purge: 1115

LNAPL Present: (Y)(N) Well Socked Prior to Purging: (Y)(N) How Many? _____ Sock Saturation: _____

Purging Method: (X) Submersible ( ) Peristaltic ( ) Other:

Pumping Rate: 500ml 80 spm Start Sampling: 1205 Purge Duration: 50 min Purge Vol: 3.1

Field Parameters

Meters: YSI (sn: 14L100804), Hach 2100P (sn: 22074205) Measured in: (X) Flow Cell ( ) Cup

Purge (gal)	Time	pH	Conductivity (us/cm)	Turbidity (ntu)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	DTW (ft)
1.5	1045	6.85	463.0	66.1	1.74	10.1	67.5	11.68
1.9	1050	6.85	462.8	66.0	1.98	10.1	63.2	11.68
2.3	1155	6.85	463.1	77.8	1.80	10.0	65.1	11.68
2.75	1200	6.85	462.6	61.5	1.78	10.0	67.3	11.68
3.1	1205	6.85	462.7	41.6	1.66	10.1	68.7	11.68

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

Final Sample clarity\color: Slightly Cloudy No Color Sample Odor: (Y) or (N) Explain:

Final Sample Oil Sheen: (X) None ( ) Light ( ) Medium ( ) Heavy ( ) NAPL

Other Observations/Comments:

Analysis Requested: VOCs + Metals Number of Containers: 4

Well Sampling Completion: Time 1226 Date 6-8-23 Samplers K Dye

APPENDIX C

2023 LABORATORY ANALYTICAL REPORTS

- **SPDES Sampling**
- **Annual Manhole Sampling**
- **OU2 - Annual Groundwater**
- **OU1 Bi-Annual Groundwater**

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 1/19/2023 9:18:25 AM

JOB DESCRIPTION

Wellsville OU2 - Monthly SPDES

JOB NUMBER

410-111208-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
1/19/2023 9:18:25 AM

Authorized for release by
Amanda Barnhart, Project Manager
Amanda.Barnhart@et.eurofinsus.com
(717)556-3860

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Definitions/Glossary

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-111208-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-111208-1

Receipt
The samples were received on 1/5/2023 10:08 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 1.4°C

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): EFF-010323 (410-111208-1) and INF-010323 (410-111208-2). The container labels list date of 010323 in sample id, while the COC lists date of 120122 in sample id. Sample ids entered per the container labels.

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

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-010323 — Lab Sample ID: 410-111208-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	280		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	100		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-010323 — Lab Sample ID: 410-111208-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.7		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	1.0		1.0		ug/L	1		624.1	Total/NA
Toluene	1.7		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	2.0		1.0		ug/L	1		624.1	Total/NA
Aniline - DL	180		27		ug/L	5		625.1	Total/NA
Nitrobenzene - DL	170		27		ug/L	5		625.1	Total/NA
Arsenic	73		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	32000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	91		10		ug/L	5		200.8 Rev 5.4	Total/NA
Total Suspended Solids	44		3.0		mg/L	1		2540D-2011	Total/NA

Client Sample ID: Trip blank — Lab Sample ID: 410-111208-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-010323
Lab Sample ID: 410-111208-1

Date Collected: 01/03/23 11:40
Matrix: Water

Date Received: 01/05/23 10:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/09/23 13:19	1
Benzene	1.0	U	1.0		ug/L			01/09/23 13:19	1
Chloroethane	1.0	U	1.0		ug/L			01/09/23 13:19	1
Ethylbenzene	1.0	U	1.0		ug/L			01/09/23 13:19	1
Toluene	1.0	U	1.0		ug/L			01/09/23 13:19	1
Vinyl chloride	1.0	U	1.0		ug/L			01/09/23 13:19	1
Xylenes, Total	1.0	U	1.0		ug/L			01/09/23 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*01/09/23 13:19*	*1*
4-Bromofluorobenzene (Surr)	*83*		*60 - 140*		*01/09/23 13:19*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*01/09/23 13:19*	*1*
Toluene-d8 (Surr)	*85*		*60 - 140*		*01/09/23 13:19*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.3	U	5.3		ug/L		01/10/23 07:39	01/11/23 03:43	1
Acenaphthene	5.3	U	5.3		ug/L		01/10/23 07:39	01/11/23 03:43	1
Aniline	5.3	U	5.3		ug/L		01/10/23 07:39	01/11/23 03:43	1
Fluorene	5.3	U	5.3		ug/L		01/10/23 07:39	01/11/23 03:43	1
Naphthalene	2.1	U	2.1		ug/L		01/10/23 07:39	01/11/23 03:43	1
Nitrobenzene	5.3	U	5.3		ug/L		01/10/23 07:39	01/11/23 03:43	1
Phenanthrene	5.3	U	5.3		ug/L		01/10/23 07:39	01/11/23 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*80*		*10 - 150*	*01/10/23 07:39*	*01/11/23 03:43*	*1*
2-Fluorobiphenyl (Surr)	*81*		*32 - 115*	*01/10/23 07:39*	*01/11/23 03:43*	*1*
2-Fluorophenol (Surr)	*58*		*10 - 83*	*01/10/23 07:39*	*01/11/23 03:43*	*1*
Nitrobenzene-d5 (Surr)	*92*		*41 - 111*	*01/10/23 07:39*	*01/11/23 03:43*	*1*
p-Terphenyl-d14 (Surr)	*94*		*37 - 140*	*01/10/23 07:39*	*01/11/23 03:43*	*1*
Phenol-d5 (Surr)	*41*		*10 - 59*	*01/10/23 07:39*	*01/11/23 03:43*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		01/10/23 08:45	01/11/23 16:07	1
Iron	**280**		50		ug/L		01/10/23 08:45	01/11/23 16:07	1
Manganese	**100**		2.0		ug/L		01/10/23 08:45	01/11/23 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2011)	3.0	U	3.0		mg/L			01/06/23 21:55	1

Client Sample ID: INF-010323
Lab Sample ID: 410-111208-2

Date Collected: 01/03/23 11:55
Matrix: Water

Date Received: 01/05/23 10:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/09/23 13:42	1
Benzene	**5.7**		1.0		ug/L			01/09/23 13:42	1

Client Sample ID: INF-010323
Date Collected: 01/03/23 11:55
Date Received: 01/05/23 10:08

Lab Sample ID: 410-111208-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			01/09/23 13:42	1
Ethylbenzene	**1.0**		1.0		ug/L			01/09/23 13:42	1
Toluene	**1.7**		1.0		ug/L			01/09/23 13:42	1
Vinyl chloride	1.0	U	1.0		ug/L			01/09/23 13:42	1
Xylenes, Total	**2.0**		1.0		ug/L			01/09/23 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*01/09/23 13:42*	*1*
4-Bromofluorobenzene (Surr)	*91*		*60 - 140*		*01/09/23 13:42*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*		*01/09/23 13:42*	*1*
Toluene-d8 (Surr)	*91*		*60 - 140*		*01/09/23 13:42*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.4	U	5.4		ug/L		01/10/23 07:39	01/11/23 04:04	1
Acenaphthene	5.4	U	5.4		ug/L		01/10/23 07:39	01/11/23 04:04	1
Fluorene	5.4	U	5.4		ug/L		01/10/23 07:39	01/11/23 04:04	1
Naphthalene	2.2	U	2.2		ug/L		01/10/23 07:39	01/11/23 04:04	1
Phenanthrene	5.4	U	5.4		ug/L		01/10/23 07:39	01/11/23 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*61*		*10 - 150*	*01/10/23 07:39*	*01/11/23 04:04*	*1*
2-Fluorobiphenyl (Surr)	*81*		*32 - 115*	*01/10/23 07:39*	*01/11/23 04:04*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 83*	*01/10/23 07:39*	*01/11/23 04:04*	*1*
Nitrobenzene-d5 (Surr)	*87*		*41 - 111*	*01/10/23 07:39*	*01/11/23 04:04*	*1*
p-Terphenyl-d14 (Surr)	*69*		*37 - 140*	*01/10/23 07:39*	*01/11/23 04:04*	*1*
Phenol-d5 (Surr)	*25*		*10 - 59*	*01/10/23 07:39*	*01/11/23 04:04*	*1*

Method: 40CFR136A 625.1 - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**180**		27		ug/L		01/10/23 07:39	01/11/23 22:14	5
Nitrobenzene	**170**		27		ug/L		01/10/23 07:39	01/11/23 22:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*49*		*10 - 150*	*01/10/23 07:39*	*01/11/23 22:14*	*5*
2-Fluorobiphenyl (Surr)	*79*		*32 - 115*	*01/10/23 07:39*	*01/11/23 22:14*	*5*
2-Fluorophenol (Surr)	*34*		*10 - 83*	*01/10/23 07:39*	*01/11/23 22:14*	*5*
Nitrobenzene-d5 (Surr)	*86*		*41 - 111*	*01/10/23 07:39*	*01/11/23 22:14*	*5*
p-Terphenyl-d14 (Surr)	*64*		*37 - 140*	*01/10/23 07:39*	*01/11/23 22:14*	*5*
Phenol-d5 (Surr)	*24*		*10 - 59*	*01/10/23 07:39*	*01/11/23 22:14*	*5*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**73**		2.0		ug/L		01/10/23 08:45	01/11/23 16:05	1
Iron	**32000**		50		ug/L		01/10/23 08:45	01/11/23 16:05	1
Manganese	**91**		10		ug/L		01/10/23 08:45	01/18/23 18:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2011)	**44**		3.0		mg/L			01/06/23 21:55	1

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: Trip blank
Lab Sample ID: 410-111208-3
Date Collected: 01/03/23 00:00
Matrix: Water
Date Received: 01/05/23 10:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/09/23 14:05	1
Benzene	1.0	U	1.0		ug/L			01/09/23 14:05	1
Chloroethane	1.0	U	1.0		ug/L			01/09/23 14:05	1
Ethylbenzene	1.0	U	1.0		ug/L			01/09/23 14:05	1
Toluene	1.0	U	1.0		ug/L			01/09/23 14:05	1
Vinyl chloride	1.0	U	1.0		ug/L			01/09/23 14:05	1
Xylenes, Total	1.0	U	1.0		ug/L			01/09/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*01/09/23 14:05*	*1*
4-Bromofluorobenzene (Surr)	*83*		*60 - 140*		*01/09/23 14:05*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*01/09/23 14:05*	*1*
Toluene-d8 (Surr)	*85*		*60 - 140*		*01/09/23 14:05*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-111208-1	EFF-010323	116	83	123	85
410-111208-2	INF-010323	106	91	110	91
410-111208-3	Trip blank	114	83	122	85
LCS 410-333580/1003	Lab Control Sample	106	87	110	92
MB 410-333580/5	Method Blank	116	83	123	86

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-111)	(37-140)	(10-59)
410-111208-1	EFF-010323	80	81	58	92	94	41
410-111208-2	INF-010323	61	81	35	87	69	25
410-111208-2 - DL	INF-010323	49	79	34	86	64	24
LCS 410-333936/2-A	Lab Control Sample	79	65	56	75	89	43
LCSD 410-333936/3-A	Lab Control Sample Dup	81	76	61	87	96	46
MB 410-333936/1-A	Method Blank	66	80	51	87	92	36

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-333580/5
Matrix: Water
Analysis Batch: 333580

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			01/09/23 10:59	1
Benzene	1.0	U	1.0		ug/L			01/09/23 10:59	1
Chloroethane	1.0	U	1.0		ug/L			01/09/23 10:59	1
Ethylbenzene	1.0	U	1.0		ug/L			01/09/23 10:59	1
Toluene	1.0	U	1.0		ug/L			01/09/23 10:59	1
Vinyl chloride	1.0	U	1.0		ug/L			01/09/23 10:59	1
Xylenes, Total	1.0	U	1.0		ug/L			01/09/23 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*01/09/23 10:59*	*1*
4-Bromofluorobenzene (Surr)	*83*		*60 - 140*		*01/09/23 10:59*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*01/09/23 10:59*	*1*
Toluene-d8 (Surr)	*86*		*60 - 140*		*01/09/23 10:59*	*1*

Lab Sample ID: LCS 410-333580/1003
Matrix: Water
Analysis Batch: 333580

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	21.1		ug/L		106	70 - 130
Benzene	20.0	21.4		ug/L		107	65 - 135
Chloroethane	20.0	19.1		ug/L		95	40 - 160
Ethylbenzene	20.0	17.2		ug/L		86	60 - 140
Toluene	20.0	17.5		ug/L		88	70 - 130
Vinyl chloride	20.0	18.2		ug/L		91	10 - 195
Xylenes, Total	60.0	53.2		ug/L		89	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
4-Bromofluorobenzene (Surr)	*87*		*60 - 140*
Dibromofluoromethane (Surr)	*110*		*60 - 140*
Toluene-d8 (Surr)	*92*		*60 - 140*

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

Lab Sample ID: MB 410-333936/1-A
Matrix: Water
Analysis Batch: 334281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 333936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		01/10/23 07:39	01/10/23 23:24	1
Acenaphthene	5.0	U	5.0		ug/L		01/10/23 07:39	01/10/23 23:24	1
Aniline	5.0	U	5.0		ug/L		01/10/23 07:39	01/10/23 23:24	1
Fluorene	5.0	U	5.0		ug/L		01/10/23 07:39	01/10/23 23:24	1
Naphthalene	2.0	U	2.0		ug/L		01/10/23 07:39	01/10/23 23:24	1
Nitrobenzene	5.0	U	5.0		ug/L		01/10/23 07:39	01/10/23 23:24	1
Phenanthrene	5.0	U	5.0		ug/L		01/10/23 07:39	01/10/23 23:24	1

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

Lab Sample ID: MB 410-333936/1-A
Matrix: Water
Analysis Batch: 334281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 333936

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromofenol (Surr)	66		10 - 150	01/10/23 07:39	01/10/23 23:24	1
2-Fluorobiphenyl (Surr)	80		32 - 115	01/10/23 07:39	01/10/23 23:24	1
2-Fluorophenol (Surr)	51		10 - 83	01/10/23 07:39	01/10/23 23:24	1
Nitrobenzene-d5 (Surr)	87		41 - 111	01/10/23 07:39	01/10/23 23:24	1
p-Terphenyl-d14 (Surr)	92		37 - 140	01/10/23 07:39	01/10/23 23:24	1
Phenol-d5 (Surr)	36		10 - 59	01/10/23 07:39	01/10/23 23:24	1

Lab Sample ID: LCS 410-333936/2-A
Matrix: Water
Analysis Batch: 334281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 333936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	36.7		ug/L		73	44 - 111
Acenaphthene	50.0	38.9		ug/L		78	47 - 145
Aniline	50.0	28.1		ug/L		56	26 - 95
Fluorene	50.0	41.8		ug/L		84	59 - 121
Naphthalene	50.0	36.0		ug/L		72	21 - 133
Nitrobenzene	50.0	42.4		ug/L		85	35 - 180
Phenanthrene	50.0	41.4		ug/L		83	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	79		10 - 150
2-Fluorobiphenyl (Surr)	65		32 - 115
2-Fluorophenol (Surr)	56		10 - 83
Nitrobenzene-d5 (Surr)	75		41 - 111
p-Terphenyl-d14 (Surr)	89		37 - 140
Phenol-d5 (Surr)	43		10 - 59

Lab Sample ID: LCSD 410-333936/3-A
Matrix: Water
Analysis Batch: 334281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 333936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	50.0	40.1		ug/L		80	44 - 111	9	30
Acenaphthene	50.0	44.1		ug/L		88	47 - 145	12	30
Aniline	50.0	34.2		ug/L		68	26 - 95	20	30
Fluorene	50.0	44.1		ug/L		88	59 - 121	5	30
Naphthalene	50.0	40.8		ug/L		82	21 - 133	13	30
Nitrobenzene	50.0	47.4		ug/L		95	35 - 180	11	30
Phenanthrene	50.0	46.0		ug/L		92	54 - 120	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromofenol (Surr)	81		10 - 150
2-Fluorobiphenyl (Surr)	76		32 - 115
2-Fluorophenol (Surr)	61		10 - 83
Nitrobenzene-d5 (Surr)	87		41 - 111
p-Terphenyl-d14 (Surr)	96		37 - 140
Phenol-d5 (Surr)	46		10 - 59

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-333972/1-A
Matrix: Water
Analysis Batch: 334715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 333972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		01/10/23 08:45	01/11/23 15:37	1
Iron	50	U	50		ug/L		01/10/23 08:45	01/11/23 15:37	1
Manganese	2.0	U	2.0		ug/L		01/10/23 08:45	01/11/23 15:37	1

Lab Sample ID: MB 410-333972/1-A
Matrix: Water
Analysis Batch: 336806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 333972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	2.0	U	2.0		ug/L		01/10/23 08:45	01/18/23 18:41	1

Lab Sample ID: LCS 410-333972/2-A
Matrix: Water
Analysis Batch: 334715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 333972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	518		ug/L		104	85 - 115
Iron	5000	5440		ug/L		109	85 - 115
Manganese	500	546		ug/L		109	85 - 115

Lab Sample ID: LCSD 410-333972/3-A
Matrix: Water
Analysis Batch: 334715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 333972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	500	506		ug/L		101	85 - 115	2	20
Iron	5000	5350		ug/L		107	85 - 115	2	20
Manganese	500	530		ug/L		106	85 - 115	3	20

Method: 2540D-2011 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-333380/1
Matrix: Water
Analysis Batch: 333380

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			01/06/23 21:55	1

Lab Sample ID: LCS 410-333380/2
Matrix: Water
Analysis Batch: 333380

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	142		mg/L		95	89 - 105

GC/MS VOA

Analysis Batch: 333580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-1	EFF-010323	Total/NA	Water	624.1	
410-111208-2	INF-010323	Total/NA	Water	624.1	
410-111208-3	Trip blank	Total/NA	Water	624.1	
MB 410-333580/5	Method Blank	Total/NA	Water	624.1	
LCS 410-333580/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 333936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-1	EFF-010323	Total/NA	Water	625.1	
410-111208-2	INF-010323	Total/NA	Water	625.1	
410-111208-2 - DL	INF-010323	Total/NA	Water	625.1	
MB 410-333936/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-333936/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-333936/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 334281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-1	EFF-010323	Total/NA	Water	625.1	333936
410-111208-2	INF-010323	Total/NA	Water	625.1	333936
MB 410-333936/1-A	Method Blank	Total/NA	Water	625.1	333936
LCS 410-333936/2-A	Lab Control Sample	Total/NA	Water	625.1	333936
LCSD 410-333936/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	333936

Analysis Batch: 334691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-2 - DL	INF-010323	Total/NA	Water	625.1	333936

Metals

Prep Batch: 333972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-1	EFF-010323	Total/NA	Water	200.8 Rev 5.4	
410-111208-2	INF-010323	Total/NA	Water	200.8 Rev 5.4	
MB 410-333972/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-333972/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	
LCSD 410-333972/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 334715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-1	EFF-010323	Total/NA	Water	200.8 Rev 5.4	333972
410-111208-2	INF-010323	Total/NA	Water	200.8 Rev 5.4	333972
MB 410-333972/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	333972
LCS 410-333972/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	333972
LCSD 410-333972/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 Rev 5.4	333972

Analysis Batch: 336806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-2	INF-010323	Total/NA	Water	200.8 Rev 5.4	333972
MB 410-333972/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	333972

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

General Chemistry

Analysis Batch: 333380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-111208-1	EFF-010323	Total/NA	Water	2540D-2011	
410-111208-2	INF-010323	Total/NA	Water	2540D-2011	
MB 410-333380/1	Method Blank	Total/NA	Water	2540D-2011	
LCS 410-333380/2	Lab Control Sample	Total/NA	Water	2540D-2011	

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-010323
Lab Sample ID: 410-111208-1

Date Collected: 01/03/23 11:40
Matrix: Water
Date Received: 01/05/23 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	333580	TQ4J	ELLE	01/09/23 13:19
Total/NA	Prep	625.1			333936	YDF5	ELLE	01/10/23 07:39
Total/NA	Analysis	625.1		1	334281	SJ89	ELLE	01/11/23 03:43
Total/NA	Prep	200.8 Rev 5.4			333972	HUH3	ELLE	01/10/23 08:45
Total/NA	Analysis	200.8 Rev 5.4		1	334715	UCIG	ELLE	01/11/23 16:07
Total/NA	Analysis	2540D-2011		1	333380	UOCA	ELLE	01/06/23 21:55 - 01/08/23 13:48 [1]

Client Sample ID: INF-010323
Lab Sample ID: 410-111208-2

Date Collected: 01/03/23 11:55
Matrix: Water
Date Received: 01/05/23 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	333580	TQ4J	ELLE	01/09/23 13:42
Total/NA	Prep	625.1			333936	YDF5	ELLE	01/10/23 07:39
Total/NA	Analysis	625.1		1	334281	SJ89	ELLE	01/11/23 04:04
Total/NA	Prep	625.1	DL		333936	YDF5	ELLE	01/10/23 07:39
Total/NA	Analysis	625.1	DL	5	334691	W6XI	ELLE	01/11/23 22:14
Total/NA	Prep	200.8 Rev 5.4			333972	HUH3	ELLE	01/10/23 08:45
Total/NA	Analysis	200.8 Rev 5.4		5	336806	S4PD	ELLE	01/18/23 18:43
Total/NA	Prep	200.8 Rev 5.4			333972	HUH3	ELLE	01/10/23 08:45
Total/NA	Analysis	200.8 Rev 5.4		1	334715	UCIG	ELLE	01/11/23 16:05
Total/NA	Analysis	2540D-2011		1	333380	UOCA	ELLE	01/06/23 21:55 - 01/08/23 13:48 [1]

Client Sample ID: Trip blank
Lab Sample ID: 410-111208-3

Date Collected: 01/03/23 00:00
Matrix: Water
Date Received: 01/05/23 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	333580	TQ4J	ELLE	01/09/23 14:05

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

Method Summary

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	40CFR136A	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2011	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-111208-1
Project/Site: Wellsville OU2 - Monthly SPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-111208-1	EFF-010323	Water	01/03/23 11:40	01/05/23 10:08
410-111208-2	INF-010323	Water	01/03/23 11:55	01/05/23 10:08
410-111208-3	Trip blank	Water	01/03/23 00:00	01/05/23 10:08

410-111208 Chain of Custody

oratory Management Program LaMP Chain of Custody Record

:C Project Name: Wellsville OU2 - Monthly SPDES | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ___ No X

:C Facility No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Amanda Barnhart	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-559-3860	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 64306	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: John Frankenthal

EBM Phone: 312-809-4117

EBM Email: John.Frankenthal@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor		No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS							Report Type & QC Level: Comments
	EFF-120122	1/3/2023	1140		X			7	3		1	3			3	2	1	1								pH= 7.35
	INF-120122	1/3/2023	1155		X			7	3		1	3			3	2	1	1								pH= 6.55
	Trip blank	1/3/2023			X			2				2														
	Temp blank	1/3/2023			X			1																		
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																									
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																									

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	1/3/23				
Shipment Method: FedEx Ship Date: 1/3/2023						
Shipment Tracking No: 817409948873					1/5/23	1048

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes (No) | Temp Blank: (Yes) No | Cooler Temp on Receipt: 1.4 °F/C | Trip Blank: Yes (No) | MS/MSD Sample Submitted: Yes / (No)

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-111208-1

Login Number: 111208

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal is 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-111208-1

SDG No.:

Batch Number: 333580 | Batch Start Date: 01/09/23 09:23 | Batch Analyst: Mellinger, Corie M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-333580/5		624.1		5 mL	5 mL				2672
410-111208-E-1	EFF-010323	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-111208-E-2	INF-010323	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-111208-A-3	Trip blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-333580/1003		624.1		5 mL	5 mL				2672

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00007	MSV_LCS_2CEVE 00095	MSV_LCS_ACR 00012	MSV_LCS_Gases 00123	MSV_LCS_VOC#1 00090	
MB 410-333580/5		624.1		5 uL					
410-111208-E-1	EFF-010323	624.1	T	5 uL					
410-111208-E-2	INF-010323	624.1	T	5 uL					
410-111208-A-3	Trip blank	624.1	T	5 uL					
LCS 410-333580/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-111208-1

SDG No.:

Batch Number: 333936 | Batch Start Date: 01/10/23 07:39 | Batch Analyst: Carrick, Adam

Batch Method: 625.1 | Batch End Date: 01/10/23 13:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-333936/1		625.1, 625.1				250 mL	1 mL	n/a SU	>11
LCS 410-333936/2		625.1, 625.1				250 mL	1 mL	n/a SU	>11
LCSD 410-333936/3		625.1, 625.1				250 mL	1 mL	n/a SU	>11
410-111208-D-1	EFF-010323	625.1, 625.1	T	403.03 g	168.49 g	234.5 mL	1 mL	n/a SU	>11 SU
410-111208-D-2	INF-010323	625.1, 625.1	T	398.56 g	168.82 g	229.7 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00012	OP_MINLCS1_MS 00147	AnalysisComment	
MB 410-333936/1		625.1, 625.1		<2	n/a SU	0.25 mL		tap H20	
LCS 410-333936/2		625.1, 625.1		<2	n/a SU	0.25 mL	1 mL	tap H20	
LCSD 410-333936/3		625.1, 625.1		<2	n/a SU	0.25 mL	1 mL	tap H20	
410-111208-D-1	EFF-010323	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		clera	
410-111208-D-2	INF-010323	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		orange tint with orange sediment	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-111208-1

SDG No.:

Batch Number: 333936 | Batch Start Date: 01/10/23 07:39 | Batch Analyst: Carrick, Adam

Batch Method: 625.1 | Batch End Date: 01/10/23 13:24

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	AGC40572
Analyst ID - Spike Analyst	AGC40572
Acid Used for pH Adjustment ID	H2SO4:219415
Base Used to Adjust pH ID	NaOH:1103G88
Prep Solvent ID	MeCl2:226055
Prep Solvent Volume Used	90
Extraction 1 Start Time	01/10/2023 09:45
Extraction 1 End Time	01/10/2023 10:49
Na2SO4 ID	23005A
Analyst ID - Concentration	AGC40572
Equipment ID - Concentration 1	RapidVap#4,3,2,1
Concentration 1 Corrected Temperature	80 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-111208-1

SDG No.:

Batch Number: 333972 | Batch Start Date: 01/11/23 06:23 | Batch Analyst: Dickens, Emily

Batch Method: 200.8 Rev 5.4 | Batch End Date: 01/11/23 12:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00025	MP_1:1HNO3 00036	MT_LCS-SPK-A 00022	MT_LCS-SPK-B 00021
MB 410-333972/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-333972/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
LCSD 410-333972/3		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-111208-H-2	INF-010323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-111208-H-1	EFF-010323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	13
Digestion Tube/Cup ID	2208065
Thermometer ID	3811
Pipette ID	g20054g
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-111208-1

SDG No.:

Batch Number: 333380 | Batch Start Date: 01/06/23 21:55 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2011 | Batch End Date: 01/08/23 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-333380/1		2540D-2011		hQ2U1	0.1261 g	1000 mL	0.1262 g	0.0001 g	1000 mL
LCS 410-333380/2		2540D-2011		hQ2U7	0.1243 g	1000 mL	0.2666 g	0.1423 g	1000 mL
410-111208-A-1	EFF-010323	2540D-2011	T	hQ2MK	0.1313 g	1000 mL	0.1337 g	0.0024 g	1000 mL
410-111208-A-2	INF-010323	2540D-2011	T	hQ2ML	0.1279 g	1000 mL	0.1715 g	0.0436 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_STOCK 00002			
MB 410-333380/1		2540D-2011		0.1262 g	0.1261 g				
LCS 410-333380/2		2540D-2011		0.2666 g	0.1243 g	0.1495 g			
410-111208-A-1	EFF-010323	2540D-2011	T	0.1337 g	0.1313 g				
410-111208-A-2	INF-010323	2540D-2011	T	0.1715 g	0.1279 g				

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600038-2354-R1
Balance ID	27505
Oven ID	7492
Thermometer ID	1022
Date/Time - In	01/06/2023 21:55
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	01/08/2023 13:48
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius
Batch Comment	LCS #17

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 2/20/2023 2:57:51 PM

JOB DESCRIPTION

Wellsville OU2 - Monthly SPDES

JOB NUMBER

410-114561-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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2/20/2023 2:57:51 PM

Authorized for release by
Amanda Barnhart, Project Manager
Amanda.Barnhart@et.eurofinsus.com
(717)556-3860

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-114561-1

Job ID: 410-114561-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-114561-1

Receipt
The samples were received on 2/7/2023 10:15 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 1.0°C

GC/MS VOA
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: Surrogate recovery for the following sample was outside control limits: INF-020623 (410-114561-2). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results.

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-114561-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-020623 — Lab Sample ID: 410-114561-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	66		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-020623 — Lab Sample ID: 410-114561-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.1		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	1.7		1.0		ug/L	1		624.1	Total/NA
Toluene	1.4		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	2.1		1.0		ug/L	1		624.1	Total/NA
Nitrobenzene	24	cn	5.1		ug/L	1		625.1	Total/NA
Aniline - DL	180	cn	25		ug/L	5		625.1	Total/NA
Arsenic	52		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	30000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3800		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	43		5.7		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-114561-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-020623
Lab Sample ID: 410-114561-1

Date Collected: 02/06/23 11:00
Matrix: Water

Date Received: 02/07/23 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			02/12/23 01:09	1
Benzene	1.0	U	1.0		ug/L			02/12/23 01:09	1
Chloroethane	1.0	U	1.0		ug/L			02/12/23 01:09	1
Ethylbenzene	1.0	U	1.0		ug/L			02/12/23 01:09	1
Toluene	1.0	U	1.0		ug/L			02/12/23 01:09	1
Vinyl chloride	1.0	U	1.0		ug/L			02/12/23 01:09	1
Xylenes, Total	1.0	U	1.0		ug/L			02/12/23 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*		*02/12/23 01:09*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*02/12/23 01:09*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*02/12/23 01:09*	*1*
Toluene-d8 (Surr)	*98*		*60 - 140*		*02/12/23 01:09*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.2	U	5.2		ug/L		02/13/23 07:37	02/14/23 04:45	1
Acenaphthene	5.2	U	5.2		ug/L		02/13/23 07:37	02/14/23 04:45	1
Aniline	5.2	U	5.2		ug/L		02/13/23 07:37	02/14/23 04:45	1
Fluorene	5.2	U	5.2		ug/L		02/13/23 07:37	02/14/23 04:45	1
Naphthalene	2.1	U	2.1		ug/L		02/13/23 07:37	02/14/23 04:45	1
Nitrobenzene	5.2	U	5.2		ug/L		02/13/23 07:37	02/14/23 04:45	1
Phenanthrene	5.2	U	5.2		ug/L		02/13/23 07:37	02/14/23 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*89*		*10 - 150*	*02/13/23 07:37*	*02/14/23 04:45*	*1*
2-Fluorobiphenyl (Surr)	*80*		*32 - 115*	*02/13/23 07:37*	*02/14/23 04:45*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 83*	*02/13/23 07:37*	*02/14/23 04:45*	*1*
Nitrobenzene-d5 (Surr)	*64*		*41 - 111*	*02/13/23 07:37*	*02/14/23 04:45*	*1*
p-Terphenyl-d14 (Surr)	*86*		*37 - 140*	*02/13/23 07:37*	*02/14/23 04:45*	*1*
Phenol-d5 (Surr)	*28*		*10 - 59*	*02/13/23 07:37*	*02/14/23 04:45*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		02/10/23 11:45	02/16/23 10:25	1
Iron	50	U	50		ug/L		02/10/23 11:45	02/16/23 10:25	1
Manganese	**66**		2.0		ug/L		02/10/23 11:45	02/16/23 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			02/09/23 20:00	1

Client Sample ID: INF-020623
Lab Sample ID: 410-114561-2

Date Collected: 02/06/23 11:15
Matrix: Water

Date Received: 02/07/23 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			02/12/23 01:31	1
Benzene	**4.1**		1.0		ug/L			02/12/23 01:31	1

Client Sample ID: INF-020623
Lab Sample ID: 410-114561-2

Date Collected: 02/06/23 11:15
Matrix: Water

Date Received: 02/07/23 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			02/12/23 01:31	1
Ethylbenzene	**1.7**		1.0		ug/L			02/12/23 01:31	1
Toluene	**1.4**		1.0		ug/L			02/12/23 01:31	1
Vinyl chloride	1.0	U	1.0		ug/L			02/12/23 01:31	1
Xylenes, Total	**2.1**		1.0		ug/L			02/12/23 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*02/12/23 01:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*02/12/23 01:31*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*02/12/23 01:31*	*1*
Toluene-d8 (Surr)	*103*		*60 - 140*		*02/12/23 01:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U cn	5.1		ug/L		02/13/23 07:37	02/14/23 05:07	1
Acenaphthene	5.1	U cn	5.1		ug/L		02/13/23 07:37	02/14/23 05:07	1
Fluorene	5.1	U cn	5.1		ug/L		02/13/23 07:37	02/14/23 05:07	1
Naphthalene	2.0	U cn	2.0		ug/L		02/13/23 07:37	02/14/23 05:07	1
Nitrobenzene	**24**	**cn**	5.1		ug/L		02/13/23 07:37	02/14/23 05:07	1
Phenanthrene	5.1	U cn	5.1		ug/L		02/13/23 07:37	02/14/23 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*2*	*S1- cn*	*10 - 150*	*02/13/23 07:37*	*02/14/23 05:07*	*1*
2-Fluorobiphenyl (Surr)	*50*	*cn*	*32 - 115*	*02/13/23 07:37*	*02/14/23 05:07*	*1*
2-Fluorophenol (Surr)	*0.7*	*S1- cn*	*10 - 83*	*02/13/23 07:37*	*02/14/23 05:07*	*1*
Nitrobenzene-d5 (Surr)	*44*	*cn*	*41 - 111*	*02/13/23 07:37*	*02/14/23 05:07*	*1*
p-Terphenyl-d14 (Surr)	*31*	*S1- cn*	*37 - 140*	*02/13/23 07:37*	*02/14/23 05:07*	*1*
Phenol-d5 (Surr)	*4*	*S1- cn*	*10 - 59*	*02/13/23 07:37*	*02/14/23 05:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**180**	**cn**	25		ug/L		02/13/23 07:37	02/14/23 15:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*2*	*S1- cn*	*10 - 150*	*02/13/23 07:37*	*02/14/23 15:41*	*5*
2-Fluorobiphenyl (Surr)	*54*	*cn*	*32 - 115*	*02/13/23 07:37*	*02/14/23 15:41*	*5*
2-Fluorophenol (Surr)	*0.9*	*S1- cn*	*10 - 83*	*02/13/23 07:37*	*02/14/23 15:41*	*5*
Nitrobenzene-d5 (Surr)	*53*	*cn*	*41 - 111*	*02/13/23 07:37*	*02/14/23 15:41*	*5*
p-Terphenyl-d14 (Surr)	*33*	*S1- cn*	*37 - 140*	*02/13/23 07:37*	*02/14/23 15:41*	*5*
Phenol-d5 (Surr)	*3*	*S1- cn*	*10 - 59*	*02/13/23 07:37*	*02/14/23 15:41*	*5*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**52**		2.0		ug/L		02/10/23 11:45	02/16/23 10:27	1
Iron	**30000**		50		ug/L		02/10/23 11:45	02/16/23 10:27	1
Manganese	**3800**		2.0		ug/L		02/10/23 11:45	02/16/23 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**43**		5.7		mg/L			02/09/23 20:00	1

Client: On-Site Health and Safety
Job ID: 410-114561-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: Trip Blank
Lab Sample ID: 410-114561-3
Date Collected: 02/06/23 00:00
Matrix: Water
Date Received: 02/07/23 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			02/12/23 00:46	1
Benzene	1.0	U	1.0		ug/L			02/12/23 00:46	1
Chloroethane	1.0	U	1.0		ug/L			02/12/23 00:46	1
Ethylbenzene	1.0	U	1.0		ug/L			02/12/23 00:46	1
Toluene	1.0	U	1.0		ug/L			02/12/23 00:46	1
Vinyl chloride	1.0	U	1.0		ug/L			02/12/23 00:46	1
Xylenes, Total	1.0	U	1.0		ug/L			02/12/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*		*02/12/23 00:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*02/12/23 00:46*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*02/12/23 00:46*	*1*
Toluene-d8 (Surr)	*98*		*60 - 140*		*02/12/23 00:46*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-114561-1
Project/Site: Wellsville OU2 - Monthly SPDES

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-114561-1	EFF-020623	107	97	109	98
410-114561-2	INF-020623	105	103	102	103
410-114561-3	Trip Blank	107	98	107	98
LCS 410-343839/1003	Lab Control Sample	104	95	104	104
MB 410-343839/5	Method Blank	110	94	111	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-111)	(37-140)	(10-59)
410-114561-1	EFF-020623	89	80	42	64	86	28
410-114561-2	INF-020623	2 S1- cn	50 cn	0.7 S1- cn	44 cn	31 S1- cn	4 S1- cn
410-114561-2 - DL	INF-020623	2 S1- cn	54 cn	0.9 S1- cn	53 cn	33 S1- cn	3 S1- cn
LCS 410-343933/2-A	Lab Control Sample	109	79	45	63	88	33
MB 410-343933/1-A	Method Blank	103	75	39	63	81	27

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-343839/5
Matrix: Water
Analysis Batch: 343839

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			02/11/23 21:00	1
Benzene	1.0	U	1.0		ug/L			02/11/23 21:00	1
Chloroethane	1.0	U	1.0		ug/L			02/11/23 21:00	1
Ethylbenzene	1.0	U	1.0		ug/L			02/11/23 21:00	1
Toluene	1.0	U	1.0		ug/L			02/11/23 21:00	1
Vinyl chloride	1.0	U	1.0		ug/L			02/11/23 21:00	1
Xylenes, Total	1.0	U	1.0		ug/L			02/11/23 21:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*02/11/23 21:00*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*02/11/23 21:00*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*		*02/11/23 21:00*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*02/11/23 21:00*	*1*

Lab Sample ID: LCS 410-343839/1003
Matrix: Water
Analysis Batch: 343839

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	22.4		ug/L		112	70 - 130
Benzene	20.0	22.2		ug/L		111	65 - 135
Chloroethane	20.0	20.5		ug/L		103	40 - 160
Ethylbenzene	20.0	21.4		ug/L		107	60 - 140
Toluene	20.0	21.6		ug/L		108	70 - 130
Vinyl chloride	20.0	19.5		ug/L		97	10 - 195
Xylenes, Total	60.0	65.7		ug/L		110	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*
Dibromofluoromethane (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*104*		*60 - 140*

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

Lab Sample ID: MB 410-343933/1-A
Matrix: Water
Analysis Batch: 344162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 343933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		02/13/23 07:37	02/13/23 19:12	1
Acenaphthene	5.0	U	5.0		ug/L		02/13/23 07:37	02/13/23 19:12	1
Aniline	5.0	U	5.0		ug/L		02/13/23 07:37	02/13/23 19:12	1
Fluorene	5.0	U	5.0		ug/L		02/13/23 07:37	02/13/23 19:12	1
Naphthalene	2.0	U	2.0		ug/L		02/13/23 07:37	02/13/23 19:12	1
Nitrobenzene	5.0	U	5.0		ug/L		02/13/23 07:37	02/13/23 19:12	1
Phenanthrene	5.0	U	5.0		ug/L		02/13/23 07:37	02/13/23 19:12	1

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

Lab Sample ID: MB 410-343933/1-A
Matrix: Water
Analysis Batch: 344162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 343933

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromofenol (Surr)	*103*		*10 - 150*	*02/13/23 07:37*	*02/13/23 19:12*	*1*
2-Fluorobiphenyl (Surr)	*75*		*32 - 115*	*02/13/23 07:37*	*02/13/23 19:12*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 83*	*02/13/23 07:37*	*02/13/23 19:12*	*1*
Nitrobenzene-d5 (Surr)	*63*		*41 - 111*	*02/13/23 07:37*	*02/13/23 19:12*	*1*
p-Terphenyl-d14 (Surr)	*81*		*37 - 140*	*02/13/23 07:37*	*02/13/23 19:12*	*1*
Phenol-d5 (Surr)	*27*		*10 - 59*	*02/13/23 07:37*	*02/13/23 19:12*	*1*

Lab Sample ID: LCS 410-343933/2-A
Matrix: Water
Analysis Batch: 344162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 343933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	44.5		ug/L		89	44 - 111
Acenaphthene	50.0	45.8		ug/L		92	47 - 145
Aniline	50.0	23.7		ug/L		47	26 - 95
Fluorene	50.0	47.9		ug/L		96	59 - 121
Naphthalene	50.0	39.2		ug/L		78	21 - 133
Nitrobenzene	50.0	34.7		ug/L		69	35 - 180
Phenanthrene	50.0	47.9		ug/L		96	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	*109*		*10 - 150*
2-Fluorobiphenyl (Surr)	*79*		*32 - 115*
2-Fluorophenol (Surr)	*45*		*10 - 83*
Nitrobenzene-d5 (Surr)	*63*		*41 - 111*
p-Terphenyl-d14 (Surr)	*88*		*37 - 140*
Phenol-d5 (Surr)	*33*		*10 - 59*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-343543/1-A
Matrix: Water
Analysis Batch: 345287

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 343543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		02/10/23 11:45	02/16/23 10:01	1
Iron	50	U	50		ug/L		02/10/23 11:45	02/16/23 10:01	1
Manganese	2.0	U	2.0		ug/L		02/10/23 11:45	02/16/23 10:01	1

Lab Sample ID: LCS 410-343543/2-A
Matrix: Water
Analysis Batch: 345287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 343543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	497		ug/L		99	85 - 115
Iron	5000	5080		ug/L		102	85 - 115
Manganese	500	513		ug/L		103	85 - 115

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-114561-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-343260/1
Matrix: Water
Analysis Batch: 343260

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			02/09/23 20:00	1

Lab Sample ID: LCS 410-343260/2
Matrix: Water
Analysis Batch: 343260

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			151	145		mg/L		96	89 - 105		

Lab Sample ID: 410-114561-2 DU
Matrix: Water
Analysis Batch: 343260

Client Sample ID: INF-020623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	43			44.0		mg/L				3	5

GC/MS VOA

Analysis Batch: 343839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-114561-1	EFF-020623	Total/NA	Water	624.1	
410-114561-2	INF-020623	Total/NA	Water	624.1	
410-114561-3	Trip Blank	Total/NA	Water	624.1	
MB 410-343839/5	Method Blank	Total/NA	Water	624.1	
LCS 410-343839/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 343933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-114561-1	EFF-020623	Total/NA	Water	625.1	
410-114561-2 - DL	INF-020623	Total/NA	Water	625.1	
410-114561-2	INF-020623	Total/NA	Water	625.1	
MB 410-343933/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-343933/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 344162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-114561-1	EFF-020623	Total/NA	Water	625.1	343933
410-114561-2	INF-020623	Total/NA	Water	625.1	343933
MB 410-343933/1-A	Method Blank	Total/NA	Water	625.1	343933
LCS 410-343933/2-A	Lab Control Sample	Total/NA	Water	625.1	343933

Analysis Batch: 344350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-114561-2 - DL	INF-020623	Total/NA	Water	625.1	343933

Metals

Prep Batch: 343543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-114561-1	EFF-020623	Total/NA	Water	200.8 Rev 5.4	
410-114561-2	INF-020623	Total/NA	Water	200.8 Rev 5.4	
MB 410-343543/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-343543/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 345287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-114561-1	EFF-020623	Total/NA	Water	200.8 Rev 5.4	343543
410-114561-2	INF-020623	Total/NA	Water	200.8 Rev 5.4	343543
MB 410-343543/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	343543
LCS 410-343543/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	343543

General Chemistry

Analysis Batch: 343260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-114561-1	EFF-020623	Total/NA	Water	2540D-2015	
410-114561-2	INF-020623	Total/NA	Water	2540D-2015	
MB 410-343260/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-343260/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-114561-2 DU	INF-020623	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-114561-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-020623
Lab Sample ID: 410-114561-1
Date Collected: 02/06/23 11:00
Matrix: Water
Date Received: 02/07/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	343839	USEJ	ELLE	02/12/23 01:09
Total/NA	Prep	625.1			343933	YDF5	ELLE	02/13/23 07:37
Total/NA	Analysis	625.1		1	344162	W6XI	ELLE	02/14/23 04:45
Total/NA	Prep	200.8 Rev 5.4			343543	HUH3	ELLE	02/10/23 11:45
Total/NA	Analysis	200.8 Rev 5.4		1	345287	F7JF	ELLE	02/16/23 10:25
Total/NA	Analysis	2540D-2015		1	343260	UOCA	ELLE	02/09/23 20:00 - 02/10/23 19:54 [1]

Client Sample ID: INF-020623
Lab Sample ID: 410-114561-2
Date Collected: 02/06/23 11:15
Matrix: Water
Date Received: 02/07/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	343839	USEJ	ELLE	02/12/23 01:31
Total/NA	Prep	625.1			343933	YDF5	ELLE	02/13/23 07:37
Total/NA	Analysis	625.1		1	344162	W6XI	ELLE	02/14/23 05:07
Total/NA	Prep	625.1	DL		343933	YDF5	ELLE	02/13/23 07:37
Total/NA	Analysis	625.1	DL	5	344350	P7EB	ELLE	02/14/23 15:41
Total/NA	Prep	200.8 Rev 5.4			343543	HUH3	ELLE	02/10/23 11:45
Total/NA	Analysis	200.8 Rev 5.4		1	345287	F7JF	ELLE	02/16/23 10:27
Total/NA	Analysis	2540D-2015		1	343260	UOCA	ELLE	02/09/23 20:00 - 02/10/23 19:54 [1]

Client Sample ID: Trip Blank
Lab Sample ID: 410-114561-3
Date Collected: 02/06/23 00:00
Matrix: Water
Date Received: 02/07/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	343839	USEJ	ELLE	02/12/23 00:46

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-114561-1
Project/Site: Wellsville OU2 - Monthly SPDES

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

Method Summary

Client: On-Site Health and Safety
Job ID: 410-114561-1
Project/Site: Wellsville OU2 - Monthly SPDES

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-114561-1
Project/Site: Wellsville OU2 - Monthly SPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-114561-1	EFF-020623	Water	02/06/23 11:00	02/07/23 10:15
410-114561-2	INF-020623	Water	02/06/23 11:15	02/07/23 10:15
410-114561-3	Trip Blank	Water	02/06/23 00:00	02/07/23 10:15

410-114561 Chain of Custody

ɔoratory Management Program LaMP Chain of Custody Record

Page 1 of 1

RC Project Name: Wellsville OU2 - Monthly SPDES | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ___ No X

RC Facility No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Amanda Barnhart	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-559-3860	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72166	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: John Frankenthal
EBM Phone: 312-809-4117
EBM Email: John.Frankenthal@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS							Report Type & QC Level: Comments
	EFF-020623	2/6/2023	1100		X			7	3		1	3			3	2	1	1								pH= 7.57
	INF-020623	2/6/2023	1115		X			7	3		1	3			3	2	1	1								pH= 6.53
	Trip blank	2/6/2023			X			2				2														
	Temp blank	2/6/2023			X			1																		
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																									
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																									

Standard X
Full Data Package

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	2/6/23	1200			
Shipment Method: FedEx Ship Date: 2/6/2023	on-site					
Shipment Tracking No: 816724514100					2/7/23	1015

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 1.0 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-114561-1

Login Number: 114561

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-114561-1

SDG No.:

Batch Number: 343839 | Batch Start Date: 02/11/23 19:31 | Batch Analyst: Johnson, Sara E

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-343839/5		624.1		5 mL	5 mL				2672
410-114561-A-3	Trip Blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-114561-A-1	EFF-020623	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-114561-A-2	INF-020623	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-343839/1003		624.1		5 mL	5 mL				2672

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_1:10_AF 00038	MSV_624.1_ISS 00007	MSV_LCS_2CEVE 00099	MSV_LCS_ACROL 00096	MSV_LCS_Gases 00127	MSV_LCS_VOC#1 00094
MB 410-343839/5		624.1		250 uL	5 uL				
410-114561-A-3	Trip Blank	624.1	T		5 uL				
410-114561-A-1	EFF-020623	624.1	T		5 uL				
410-114561-A-2	INF-020623	624.1	T		5 uL				
LCS 410-343839/1003		624.1			5 uL	50 uL	50 uL	50 uL	50 uL

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-114561-1

SDG No.:

Batch Number: 343933 | Batch Start Date: 02/13/23 07:37 | Batch Analyst: Carrick, Adam

Batch Method: 625.1 | Batch End Date: 02/13/23 13:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-343933/1		625.1, 625.1				250 mL	1 mL	n/a SU	>11 SU
LCS 410-343933/2		625.1, 625.1				250 mL	1 mL	n/a SU	>11 SU
410-114561-E-1	EFF-020623	625.1, 625.1	T	408.03 g	167.21 g	240.8 mL	1 mL	n/a SU	>11 SU
410-114561-E-2	INF-020623	625.1, 625.1	T	412.83 g	166.76 g	246.1 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00013	OP_MINLCS1_MS 00151	AnalysisComment	
MB 410-343933/1		625.1, 625.1		<2 SU	n/a SU	0.25 mL		tap H20	
LCS 410-343933/2		625.1, 625.1		<2 SU	n/a SU	0.25 mL	1 mL	tap H20	
410-114561-E-1	EFF-020623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		pale yellow tint	
410-114561-E-2	INF-020623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		yellow cloudy with orange sediment	

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	AGC40572, RSR34942
Analyst ID - Spike Analyst	AGC40572
Acid Used for pH Adjustment ID	H2SO4:222369
Base Used to Adjust pH ID	NaOH:1103G88
Prep Solvent ID	MeCL2:226057
Prep Solvent Volume Used	90
Extraction 1 Start Time	02/13/2023 09:36
Extraction 1 End Time	02/13/2023 10:15
Na2SO4 ID	23038A
Analyst ID - Concentration	AGC40572, RSR34942
Equipment ID - Concentration 1	RapidVap#4,3,2,1
Concentration 1 Corrected Temperature	80 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-114561-1

SDG No.:

Batch Number: 343933 | Batch Start Date: 02/13/23 07:37 | Batch Analyst: Carrick, Adam

Batch Method: 625.1 | Batch End Date: 02/13/23 13:57

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-114561-1

SDG No.:

Batch Number: 343543 | Batch Start Date: 02/15/23 07:53 | Batch Analyst: Dickens, Emily

Batch Method: 200.8 Rev 5.4 | Batch End Date: 02/15/23 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00025	MP_1:1HNO3 00036	MT_LCS-SPK-A 00022	MT_LCS-SPK-B 00021
MB 410-343543/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-343543/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-114561-H-1	EFF-020623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-114561-H-2	INF-020623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	12
Digestion Tube/Cup ID	2210117
Thermometer ID	3811
Pipette ID	g20054g
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-114561-1

SDG No.:

Batch Number: 343260 | Batch Start Date: 02/09/23 20:00 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 | Batch End Date: 02/10/23 19:54

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-343260/1		2540D-2015		hQ120	0.1269 g	1000 mL	0.1269 g	0.0000 g	1000 mL
LCS 410-343260/2		2540D-2015		hQ121	0.1263 g	1000 mL	0.2709 g	0.1446 g	1000 mL
410-114561-F-1	EFF-020623	2540D-2015	T	hQ122	0.1217 g	1000 mL	0.1218 g	0.0001 g	1000 mL
410-114561-F-2	INF-020623	2540D-2015	T	hQ123	0.1259 g	525 mL	0.1483 g	0.0224 g	1000 mL
410-114561-F-2 DU	INF-020623	2540D-2015	T	hQ124	0.1275 g	525 mL	0.1506 g	0.0231 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00031	AnalysisComment		
MB 410-343260/1		2540D-2015		0.1269 g	0.1269 g				
LCS 410-343260/2		2540D-2015		0.2709 g	0.1263 g	0.1505 g			
410-114561-F-1	EFF-020623	2540D-2015	T	0.1218 g	0.1217 g				
410-114561-F-2	INF-020623	2540D-2015	T	0.1483 g	0.1259 g		Part 100+50+50+100+100+125, soil, cloudy, slow		
410-114561-F-2 DU	INF-020623	2540D-2015	T	0.1506 g	0.1275 g		Part 100+50+50+100+100+125, soil, cloudy, slow		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-114561-1

SDG No.:

Batch Number: 343260 Batch Start Date: 02/09/23 20:00 Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 Batch End Date: 02/10/23 19:54

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600038-2354-R1
Balance ID	27504
Oven ID	7492
Thermometer ID	1022
Date/Time - In	02/09/2023 20:00
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	02/10/2023 19:54
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius
Batch Comment	LCS No. 14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 3/15/2023 2:28:30 PM

JOB DESCRIPTION

Wellsville OU2 - Monthly SPDES

JOB NUMBER

410-117787-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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3/15/2023 2:28:30 PM

Authorized for release by
Amanda Barnhart, Project Manager
Amanda.Barnhart@et.eurofinsus.com
(717)556-3860

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-117787-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-117787-1

Receipt
The samples were received on 3/7/2023 9:55 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 1.3°C

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

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-030623 — Lab Sample ID: 410-117787-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	170		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	27		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-030623 — Lab Sample ID: 410-117787-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.4		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	1.5		1.0		ug/L	1		624.1	Total/NA
Toluene	1.8		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	2.1		1.0		ug/L	1		624.1	Total/NA
Aniline - DL	150	*1	25		ug/L	5		625.1	Total/NA
Nitrobenzene - DL	230		25		ug/L	5		625.1	Total/NA
Arsenic	56		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	32000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4300		10		ug/L	5		200.8 Rev 5.4	Total/NA
Total Suspended Solids	47		5.7		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-117787-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-030623
Lab Sample ID: 410-117787-1

Date Collected: 03/06/23 10:40
Matrix: Water

Date Received: 03/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/08/23 15:36	1
Benzene	1.0	U	1.0		ug/L			03/08/23 15:36	1
Chloroethane	1.0	U	1.0		ug/L			03/08/23 15:36	1
Ethylbenzene	1.0	U	1.0		ug/L			03/08/23 15:36	1
Toluene	1.0	U	1.0		ug/L			03/08/23 15:36	1
Vinyl chloride	1.0	U	1.0		ug/L			03/08/23 15:36	1
Xylenes, Total	1.0	U	1.0		ug/L			03/08/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*03/08/23 15:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*03/08/23 15:36*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*03/08/23 15:36*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*03/08/23 15:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:14	1
Acenaphthene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:14	1
Aniline	5.1	U *1	5.1		ug/L		03/13/23 07:57	03/14/23 03:14	1
Fluorene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:14	1
Naphthalene	2.0	U	2.0		ug/L		03/13/23 07:57	03/14/23 03:14	1
Nitrobenzene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:14	1
Phenanthrene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*93*		*10 - 150*	*03/13/23 07:57*	*03/14/23 03:14*	*1*
2-Fluorobiphenyl (Surr)	*67*		*32 - 115*	*03/13/23 07:57*	*03/14/23 03:14*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 83*	*03/13/23 07:57*	*03/14/23 03:14*	*1*
Nitrobenzene-d5 (Surr)	*70*		*41 - 121*	*03/13/23 07:57*	*03/14/23 03:14*	*1*
p-Terphenyl-d14 (Surr)	*85*		*28 - 134*	*03/13/23 07:57*	*03/14/23 03:14*	*1*
Phenol-d5 (Surr)	*34*		*10 - 63*	*03/13/23 07:57*	*03/14/23 03:14*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		03/08/23 06:32	03/08/23 17:21	1
Iron	**170**		50		ug/L		03/08/23 06:32	03/08/23 17:21	1
Manganese	**27**		2.0		ug/L		03/08/23 06:32	03/08/23 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			03/08/23 18:48	1

Client Sample ID: INF-030623
Lab Sample ID: 410-117787-2

Date Collected: 03/06/23 11:00
Matrix: Water

Date Received: 03/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/08/23 15:59	1
Benzene	**5.4**		1.0		ug/L			03/08/23 15:59	1

Client Sample ID: INF-030623
Lab Sample ID: 410-117787-2
Date Collected: 03/06/23 11:00
Matrix: Water
Date Received: 03/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			03/08/23 15:59	1
Ethylbenzene	**1.5**		1.0		ug/L			03/08/23 15:59	1
Toluene	**1.8**		1.0		ug/L			03/08/23 15:59	1
Vinyl chloride	1.0	U	1.0		ug/L			03/08/23 15:59	1
Xylenes, Total	**2.1**		1.0		ug/L			03/08/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*03/08/23 15:59*	*1*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*03/08/23 15:59*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*03/08/23 15:59*	*1*
Toluene-d8 (Surr)	*104*		*60 - 140*		*03/08/23 15:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:36	1
Acenaphthene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:36	1
Fluorene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:36	1
Naphthalene	2.0	U	2.0		ug/L		03/13/23 07:57	03/14/23 03:36	1
Phenanthrene	5.1	U	5.1		ug/L		03/13/23 07:57	03/14/23 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*32 - 115*	*03/13/23 07:57*	*03/14/23 03:36*	*1*
Nitrobenzene-d5 (Surr)	*62*		*41 - 121*	*03/13/23 07:57*	*03/14/23 03:36*	*1*
p-Terphenyl-d14 (Surr)	*58*		*28 - 134*	*03/13/23 07:57*	*03/14/23 03:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**150**	***1**	25		ug/L		03/13/23 07:57	03/14/23 10:55	5
Nitrobenzene	**230**		25		ug/L		03/13/23 07:57	03/14/23 10:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*32 - 115*	*03/13/23 07:57*	*03/14/23 10:55*	*5*
Nitrobenzene-d5 (Surr)	*68*		*41 - 121*	*03/13/23 07:57*	*03/14/23 10:55*	*5*
p-Terphenyl-d14 (Surr)	*60*		*28 - 134*	*03/13/23 07:57*	*03/14/23 10:55*	*5*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**56**		2.0		ug/L		03/08/23 06:38	03/08/23 17:24	1
Iron	**32000**		50		ug/L		03/08/23 06:38	03/08/23 17:24	1
Manganese	**4300**		10		ug/L		03/08/23 06:38	03/08/23 17:33	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**47**		5.7		mg/L			03/08/23 18:48	1

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: Trip Blank
Lab Sample ID: 410-117787-3
Date Collected: 03/06/23 11:00
Matrix: Water
Date Received: 03/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/08/23 16:21	1
Benzene	1.0	U	1.0		ug/L			03/08/23 16:21	1
Chloroethane	1.0	U	1.0		ug/L			03/08/23 16:21	1
Ethylbenzene	1.0	U	1.0		ug/L			03/08/23 16:21	1
Toluene	1.0	U	1.0		ug/L			03/08/23 16:21	1
Vinyl chloride	1.0	U	1.0		ug/L			03/08/23 16:21	1
Xylenes, Total	1.0	U	1.0		ug/L			03/08/23 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*03/08/23 16:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*03/08/23 16:21*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*03/08/23 16:21*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*03/08/23 16:21*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

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

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-117787-1	EFF-030623	106	93	109	100
410-117787-2	INF-030623	100	104	99	104
410-117787-3	Trip Blank	105	98	107	99
LCS 410-351322/1003	Lab Control Sample	106	97	103	106
MB 410-351322/5	Method Blank	108	94	108	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)
410-117787-1	EFF-030623	93	67	49	70	85	34
410-117787-2	INF-030623		62		62	58	
410-117787-2 - DL	INF-030623		64		68	60	
LCS 410-352598/2-A	Lab Control Sample	82	50	45	57	79	33
LCSD 410-352598/3-A	Lab Control Sample Dup	105	62	55	70	100	40
MB 410-352598/1-A	Method Blank	86	43	49	64	88	35

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-351322/5
Matrix: Water
Analysis Batch: 351322

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			03/08/23 10:20	1
Benzene	1.0	U	1.0		ug/L			03/08/23 10:20	1
Chloroethane	1.0	U	1.0		ug/L			03/08/23 10:20	1
Ethylbenzene	1.0	U	1.0		ug/L			03/08/23 10:20	1
Toluene	1.0	U	1.0		ug/L			03/08/23 10:20	1
Vinyl chloride	1.0	U	1.0		ug/L			03/08/23 10:20	1
Xylenes, Total	1.0	U	1.0		ug/L			03/08/23 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*03/08/23 10:20*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*03/08/23 10:20*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*03/08/23 10:20*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*03/08/23 10:20*	*1*

Lab Sample ID: LCS 410-351322/1003
Matrix: Water
Analysis Batch: 351322

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	20.6		ug/L		103	70 - 130
Benzene	20.0	21.3		ug/L		106	65 - 135
Chloroethane	20.0	15.8		ug/L		79	40 - 160
Ethylbenzene	20.0	20.3		ug/L		102	60 - 140
Toluene	20.0	20.6		ug/L		103	70 - 130
Vinyl chloride	20.0	13.4		ug/L		67	10 - 195
Xylenes, Total	60.0	60.6		ug/L		101	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*106*		*60 - 140*

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

Lab Sample ID: MB 410-352598/1-A
Matrix: Water
Analysis Batch: 353040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		03/13/23 07:57	03/13/23 21:48	1
Acenaphthene	5.0	U	5.0		ug/L		03/13/23 07:57	03/13/23 21:48	1
Aniline	5.0	U	5.0		ug/L		03/13/23 07:57	03/13/23 21:48	1
Fluorene	5.0	U	5.0		ug/L		03/13/23 07:57	03/13/23 21:48	1
Naphthalene	2.0	U	2.0		ug/L		03/13/23 07:57	03/13/23 21:48	1
Nitrobenzene	5.0	U	5.0		ug/L		03/13/23 07:57	03/13/23 21:48	1
Phenanthrene	5.0	U	5.0		ug/L		03/13/23 07:57	03/13/23 21:48	1

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

Lab Sample ID: MB 410-352598/1-A
Matrix: Water
Analysis Batch: 353040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352598

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromofenol (Surr)	86		10 - 150	03/13/23 07:57	03/13/23 21:48	1
2-Fluorobiphenyl (Surr)	43		32 - 115	03/13/23 07:57	03/13/23 21:48	1
2-Fluorophenol (Surr)	49		10 - 83	03/13/23 07:57	03/13/23 21:48	1
Nitrobenzene-d5 (Surr)	64		41 - 121	03/13/23 07:57	03/13/23 21:48	1
p-Terphenyl-d14 (Surr)	88		28 - 134	03/13/23 07:57	03/13/23 21:48	1
Phenol-d5 (Surr)	35		10 - 63	03/13/23 07:57	03/13/23 21:48	1

Lab Sample ID: LCS 410-352598/2-A
Matrix: Water
Analysis Batch: 353040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	33.2		ug/L		66	50 - 114
Acenaphthene	50.0	34.0		ug/L		68	47 - 145
Aniline	50.0	12.7		ug/L		25	21 - 106
Fluorene	50.0	35.6		ug/L		71	59 - 121
Naphthalene	50.0	28.8		ug/L		58	21 - 133
Nitrobenzene	50.0	32.2		ug/L		64	35 - 180
Phenanthrene	50.0	39.3		ug/L		79	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	82		10 - 150
2-Fluorobiphenyl (Surr)	50		32 - 115
2-Fluorophenol (Surr)	45		10 - 83
Nitrobenzene-d5 (Surr)	57		41 - 121
p-Terphenyl-d14 (Surr)	79		28 - 134
Phenol-d5 (Surr)	33		10 - 63

Lab Sample ID: LCSD 410-352598/3-A
Matrix: Water
Analysis Batch: 353040

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 352598

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	50.0	42.5		ug/L		85	50 - 114	25	30
Acenaphthene	50.0	43.6		ug/L		87	47 - 145	25	30
Aniline	50.0	20.5	*1	ug/L		41	21 - 106	47	30
Fluorene	50.0	45.0		ug/L		90	59 - 121	23	30
Naphthalene	50.0	38.5		ug/L		77	21 - 133	29	30
Nitrobenzene	50.0	40.8		ug/L		82	35 - 180	24	30
Phenanthrene	50.0	49.1		ug/L		98	54 - 120	22	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromofenol (Surr)	105		10 - 150
2-Fluorobiphenyl (Surr)	62		32 - 115
2-Fluorophenol (Surr)	55		10 - 83
Nitrobenzene-d5 (Surr)	70		41 - 121
p-Terphenyl-d14 (Surr)	100		28 - 134
Phenol-d5 (Surr)	40		10 - 63

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-351240/1-A
Matrix: Water
Analysis Batch: 351635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		03/08/23 06:32	03/08/23 16:38	1
Iron	50	U	50		ug/L		03/08/23 06:32	03/08/23 16:38	1
Manganese	2.0	U	2.0		ug/L		03/08/23 06:32	03/08/23 16:38	1

Lab Sample ID: LCS 410-351240/2-A
Matrix: Water
Analysis Batch: 351635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	508		ug/L		102	85 - 115
Iron	5000	5100		ug/L		102	85 - 115
Manganese	500	505		ug/L		101	85 - 115

Lab Sample ID: LCSD 410-351240/3-A
Matrix: Water
Analysis Batch: 351635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 351240

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	500	508		ug/L		102	85 - 115	0	20
Iron	5000	5060		ug/L		101	85 - 115	1	20
Manganese	500	509		ug/L		102	85 - 115	1	20

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-351532/1
Matrix: Water
Analysis Batch: 351532

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			03/08/23 18:48	1

Lab Sample ID: LCS 410-351532/2
Matrix: Water
Analysis Batch: 351532

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	145		mg/L		96	89 - 105

Lab Sample ID: 410-117787-2 DU
Matrix: Water
Analysis Batch: 351532

Client Sample ID: INF-030623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	47		47.7		mg/L		0.8	5

GC/MS VOA

Analysis Batch: 351322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-117787-1	EFF-030623	Total/NA	Water	624.1	
410-117787-2	INF-030623	Total/NA	Water	624.1	
410-117787-3	Trip Blank	Total/NA	Water	624.1	
MB 410-351322/5	Method Blank	Total/NA	Water	624.1	
LCS 410-351322/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 352598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-117787-1	EFF-030623	Total/NA	Water	625.1	
410-117787-2	INF-030623	Total/NA	Water	625.1	
410-117787-2 - DL	INF-030623	Total/NA	Water	625.1	
MB 410-352598/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-352598/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-352598/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 353040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-117787-1	EFF-030623	Total/NA	Water	625.1	352598
410-117787-2	INF-030623	Total/NA	Water	625.1	352598
MB 410-352598/1-A	Method Blank	Total/NA	Water	625.1	352598
LCS 410-352598/2-A	Lab Control Sample	Total/NA	Water	625.1	352598
LCSD 410-352598/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	352598

Analysis Batch: 353277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-117787-2 - DL	INF-030623	Total/NA	Water	625.1	352598

Metals

Prep Batch: 351240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-117787-1	EFF-030623	Total/NA	Water	200.8 Rev 5.4	
410-117787-2	INF-030623	Total/NA	Water	200.8 Rev 5.4	
MB 410-351240/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-351240/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	
LCSD 410-351240/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 351635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-117787-1	EFF-030623	Total/NA	Water	200.8 Rev 5.4	351240
410-117787-2	INF-030623	Total/NA	Water	200.8 Rev 5.4	351240
410-117787-2	INF-030623	Total/NA	Water	200.8 Rev 5.4	351240
MB 410-351240/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	351240
LCS 410-351240/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	351240
LCSD 410-351240/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 Rev 5.4	351240

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

General Chemistry

Analysis Batch: 351532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-117787-1	EFF-030623	Total/NA	Water	2540D-2015	
410-117787-2	INF-030623	Total/NA	Water	2540D-2015	
MB 410-351532/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-351532/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-117787-2 DU	INF-030623	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-030623
Lab Sample ID: 410-117787-1
Date Collected: 03/06/23 10:40
Matrix: Water
Date Received: 03/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	351322	UJML	ELLE	03/08/23 15:36
Total/NA	Prep	625.1			352598	YDF5	ELLE	03/13/23 07:57
Total/NA	Analysis	625.1		1	353040	W6XI	ELLE	03/14/23 03:14
Total/NA	Prep	200.8 Rev 5.4			351240	HUH3	ELLE	03/08/23 06:32
Total/NA	Analysis	200.8 Rev 5.4		1	351635	UCIG	ELLE	03/08/23 17:21
Total/NA	Analysis	2540D-2015		1	351532	UOCA	ELLE	03/08/23 18:48 - 03/09/23 20:23 [1]

Client Sample ID: INF-030623
Lab Sample ID: 410-117787-2
Date Collected: 03/06/23 11:00
Matrix: Water
Date Received: 03/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	351322	UJML	ELLE	03/08/23 15:59
Total/NA	Prep	625.1			352598	YDF5	ELLE	03/13/23 07:57
Total/NA	Analysis	625.1		1	353040	W6XI	ELLE	03/14/23 03:36
Total/NA	Prep	625.1	DL		352598	YDF5	ELLE	03/13/23 07:57
Total/NA	Analysis	625.1	DL	5	353277	P7EB	ELLE	03/14/23 10:55
Total/NA	Prep	200.8 Rev 5.4			351240	HUH3	ELLE	03/08/23 06:38
Total/NA	Analysis	200.8 Rev 5.4		1	351635	UCIG	ELLE	03/08/23 17:24
Total/NA	Prep	200.8 Rev 5.4			351240	HUH3	ELLE	03/08/23 06:38
Total/NA	Analysis	200.8 Rev 5.4		5	351635	UCIG	ELLE	03/08/23 17:33
Total/NA	Analysis	2540D-2015		1	351532	UOCA	ELLE	03/08/23 18:48 - 03/09/23 20:23 [1]

Client Sample ID: Trip Blank
Lab Sample ID: 410-117787-3
Date Collected: 03/06/23 11:00
Matrix: Water
Date Received: 03/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	351322	UJML	ELLE	03/08/23 16:21

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-23

Method Summary

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-117787-1
Project/Site: Wellsville OU2 - Monthly SPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-117787-1	EFF-030623	Water	03/06/23 10:40	03/07/23 09:55
410-117787-2	INF-030623	Water	03/06/23 11:00	03/07/23 09:55
410-117787-3	Trip Blank	Water	03/06/23 11:00	03/07/23 09:55

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaMP Chain of Custody Record

Page ____ of ____

BP/ARC Project Name: Wellsville OU2 - Monthly SPDES
Req Due Date (mm/dd/yy): Standard
Rush TAT: Yes ____ No X

BP/ARC Facility No: USEPA ID: NY-D98053215
Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Amanda Barnhart	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-559-3860	California Global ID No: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72166	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ____

BP/ARC EBM: John Frankenthal
EBM Phone: 312-809-4117
EBM Email: John.Frankenthal@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS	Report Type & QC Level / Comments
	EFF-030623	3/6/2023	1040		X			7	3		1	3			3	2	1	1	pH= 6.93
	INF-030623	3/6/2023	1100		X			7	3		1	3			3	2	1	1	pH= 6.46
	Trip blank	3/6/2023	1100		X			2				2							
	Temp blank	3/6/2023			X			1											
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																		
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																		

410-117787 Chain of Custody

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	3/6/23	1200			
Shipment Method: FedEx Ship Date: 3/6/2023	on-site					
Shipment Tracking No: 817084572047				3/7/23 0955		

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: (Yes) / No | Temp Blank: (Yes) / No | Cooler Temp on Receipt: 1.3 °F/C | Trip Blank: (Yes) / No | MS/MSD Sample Submitted: Yes (No)

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-117787-1

Login Number: 117787

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-117787-1

SDG No.:

Batch Number: 351322 | Batch Start Date: 03/08/23 08:58 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-351322/5		624.1		5 mL	5 mL				2672
410-117787-E-1	EFF-030623	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-117787-E-2	INF-030623	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-117787-A-3	Trip Blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-351322/1003		624.1		5 mL	5 mL				2672

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00008	MSV_LCS_2CEVE 00103	MSV_LCS_ACR 00013	MSV_LCS_Gases 00131	MSV_LCS_VOC#1 00098	
MB 410-351322/5		624.1		5 uL					
410-117787-E-1	EFF-030623	624.1	T	5 uL					
410-117787-E-2	INF-030623	624.1	T	5 uL					
410-117787-A-3	Trip Blank	624.1	T	5 uL					
LCS 410-351322/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-117787-1

SDG No.:

Batch Number: 352598 | Batch Start Date: 03/13/23 07:57 | Batch Analyst: Carrick, Adam

Batch Method: 625.1 | Batch End Date: 03/13/23 13:29

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-352598/1		625.1, 625.1				250 mL	1 mL	n/a SU	>11 SU
LCS 410-352598/2		625.1, 625.1				250 mL	1 mL	n/a SU	>11 SU
LCSD 410-352598/3		625.1, 625.1				250 mL	1 mL	n/a SU	>11 SU
410-117787-D-1	EFF-030623	625.1, 625.1	T	412.44 g	168.11 g	244.3 mL	1 mL	n/a SU	>11 SU
410-117787-D-2	INF-030623	625.1, 625.1	T	413.18 g	166.68 g	246.5 mL	1 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00013	OP_MINLCS1_MS 00156	AnalysisComment	
MB 410-352598/1		625.1, 625.1		<2 SU	n SU	0.25 mL		tap H20	
LCS 410-352598/2		625.1, 625.1		<2 SU	n SU	0.25 mL	1 mL	tap H20	
LCSD 410-352598/3		625.1, 625.1		<2 SU	n SU	0.25 mL	1 mL	tap H20	
410-117787-D-1	EFF-030623	625.1, 625.1	T	<2 SU	n SU	0.25 mL		clear	
410-117787-D-2	INF-030623	625.1, 625.1	T	<2 SU	n SU	0.25 mL		pale yellow tint with orange sediment	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-117787-1

SDG No.:

Batch Number: 352598 | Batch Start Date: 03/13/23 07:57 | Batch Analyst: Carrick, Adam

Batch Method: 625.1 | Batch End Date: 03/13/23 13:29

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	AGC40572
Analyst ID - Spike Analyst	AGC40572
Acid Used for pH Adjustment ID	H2SO4:224621
Base Used to Adjust pH ID	NaOH:4202B64
Prep Solvent ID	MeCl2:226455
Prep Solvent Volume Used	90 mL
Extraction 1 Start Time	03/13/2023 09:30
Extraction 1 End Time	03/13/2023 10:15
Na2SO4 ID	23070A
Analyst ID - Concentration	AGC40572
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-117787-1

SDG No.:

Batch Number: 351240 | Batch Start Date: 03/08/23 07:20 | Batch Analyst: Dickens, Emily

Batch Method: 200.8 Rev 5.4 | Batch End Date: 03/08/23 12:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00026	MP_1:1HNO3 00038	MT_LCS-SPK-A 00023	MT_LCS-SPK-B 00022
MB 410-351240/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-351240/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
LCSD 410-351240/3		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-117787-H-1	EFF-030623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-117787-H-2	INF-030623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	12
Digestion Tube/Cup ID	2210117
Thermometer ID	3811
Pipette ID	g20054g
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-117787-1

SDG No.:

Batch Number: 351532 | Batch Start Date: 03/08/23 18:48 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 | Batch End Date: 03/09/23 20:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-351532/1		2540D-2015		hPXJB	0.1351 g	1000 mL	0.1350 g	-0.0001 g	1000 mL
LCS 410-351532/2		2540D-2015		hPXJC	0.1280 g	1000 mL	0.2732 g	0.1452 g	1000 mL
410-117787-A-1	EFF-030623	2540D-2015	T	hPXJR	0.1321 g	1000 mL	0.1325 g	0.0004 g	1000 mL
410-117787-A-2	INF-030623	2540D-2015	T	hPXJS	0.1359 g	530 mL	0.1610 g	0.0251 g	1000 mL
410-117787-A-2 DU	INF-030623	2540D-2015	T	hPXJT	0.1359 g	530 mL	0.1612 g	0.0253 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_STOCK 00002	AnalysisComment		
MB 410-351532/1		2540D-2015		0.135 g	0.1351 g				
LCS 410-351532/2		2540D-2015		0.2732 g	0.128 g	0.1505 g			
410-117787-A-1	EFF-030623	2540D-2015	T	0.1325 g	0.1321 g				
410-117787-A-2	INF-030623	2540D-2015	T	0.161 g	0.1359 g		Part 100+70+30+100+100+100+30		
410-117787-A-2 DU	INF-030623	2540D-2015	T	0.1612 g	0.1359 g		Part 100+70+30+100+100+100+30		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-117787-1

SDG No.:

Batch Number: 351532 Batch Start Date: 03/08/23 18:48 Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 Batch End Date: 03/09/23 20:23

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600038-2354-R1
Balance ID	27505
Oven ID	7492
Thermometer ID	1022
Date/Time - In	03/08/2023 18:48
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	03/09/2023 20:23
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius
Batch Comment	LCS N0. 6

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 4/16/2023 9:17:55 PM

JOB DESCRIPTION

Wellsville OU2 - Monthly SPDES

JOB NUMBER

410-121299-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Amanda Barnhart, Project Manager
Amanda.Barnhart@et.eurofinsus.com
(717)556-3860

Eurofins Lancaster Laboratories Environment Testing, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

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

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-121299-1

Job ID: 410-121299-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-121299-1

Receipt
The samples were received on 4/4/2023 9:46 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 2.0°C

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

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-040323 — Lab Sample ID: 410-121299-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	56		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	20		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-040323 — Lab Sample ID: 410-121299-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.4		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	2.5		1.0		ug/L	1		624.1	Total/NA
Toluene	2.7		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	3.2		1.0		ug/L	1		624.1	Total/NA
Aniline	71		5.0		ug/L	1		625.1	Total/NA
Nitrobenzene - DL	130		25		ug/L	5		625.1	Total/NA
Arsenic	73		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	32000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4100		10		ug/L	5		200.8 Rev 5.4	Total/NA
Total Suspended Solids	56		10		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-121299-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-040323
Lab Sample ID: 410-121299-1

Date Collected: 04/03/23 10:30
Matrix: Water

Date Received: 04/04/23 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/10/23 12:34	1
Benzene	1.0	U	1.0		ug/L			04/10/23 12:34	1
Chloroethane	1.0	U	1.0		ug/L			04/10/23 12:34	1
Ethylbenzene	1.0	U	1.0		ug/L			04/10/23 12:34	1
Toluene	1.0	U	1.0		ug/L			04/10/23 12:34	1
Vinyl chloride	1.0	U	1.0		ug/L			04/10/23 12:34	1
Xylenes, Total	1.0	U	1.0		ug/L			04/10/23 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*04/10/23 12:34*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*04/10/23 12:34*	*1*
Dibromofluoromethane (Surr)	*113*		*60 - 140*		*04/10/23 12:34*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*04/10/23 12:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U	5.1		ug/L		04/10/23 15:57	04/11/23 01:10	1
Acenaphthene	5.1	U	5.1		ug/L		04/10/23 15:57	04/11/23 01:10	1
Aniline	5.1	U	5.1		ug/L		04/10/23 15:57	04/11/23 01:10	1
Fluorene	5.1	U	5.1		ug/L		04/10/23 15:57	04/11/23 01:10	1
Naphthalene	2.0	U	2.0		ug/L		04/10/23 15:57	04/11/23 01:10	1
Nitrobenzene	5.1	U	5.1		ug/L		04/10/23 15:57	04/11/23 01:10	1
Phenanthrene	5.1	U	5.1		ug/L		04/10/23 15:57	04/11/23 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromofenol (Surr)	*84*		*10 - 150*	*04/10/23 15:57*	*04/11/23 01:10*	*1*
2-Fluorobiphenyl (Surr)	*62*		*32 - 115*	*04/10/23 15:57*	*04/11/23 01:10*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 83*	*04/10/23 15:57*	*04/11/23 01:10*	*1*
Nitrobenzene-d5 (Surr)	*60*		*41 - 121*	*04/10/23 15:57*	*04/11/23 01:10*	*1*
p-Terphenyl-d14 (Surr)	*66*		*28 - 134*	*04/10/23 15:57*	*04/11/23 01:10*	*1*
Phenol-d5 (Surr)	*28*		*10 - 63*	*04/10/23 15:57*	*04/11/23 01:10*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		04/07/23 09:12	04/10/23 20:02	1
Iron	**56**		50		ug/L		04/07/23 09:12	04/10/23 20:02	1
Manganese	**20**		2.0		ug/L		04/07/23 09:12	04/10/23 20:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			04/10/23 09:13	1

Client Sample ID: INF-040323
Lab Sample ID: 410-121299-2

Date Collected: 04/03/23 10:50
Matrix: Water

Date Received: 04/04/23 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/10/23 12:55	1
Benzene	**8.4**		1.0		ug/L			04/10/23 12:55	1

Client Sample ID: INF-040323
Lab Sample ID: 410-121299-2

Date Collected: 04/03/23 10:50
Matrix: Water

Date Received: 04/04/23 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			04/10/23 12:55	1
Ethylbenzene	**2.5**		1.0		ug/L			04/10/23 12:55	1
Toluene	**2.7**		1.0		ug/L			04/10/23 12:55	1
Vinyl chloride	1.0	U	1.0		ug/L			04/10/23 12:55	1
Xylenes, Total	**3.2**		1.0		ug/L			04/10/23 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*04/10/23 12:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*04/10/23 12:55*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*04/10/23 12:55*	*1*
Toluene-d8 (Surr)	*103*		*60 - 140*		*04/10/23 12:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		04/10/23 15:57	04/11/23 01:32	1
Acenaphthene	5.0	U	5.0		ug/L		04/10/23 15:57	04/11/23 01:32	1
Aniline	**71**		5.0		ug/L		04/10/23 15:57	04/11/23 01:32	1
Fluorene	5.0	U	5.0		ug/L		04/10/23 15:57	04/11/23 01:32	1
Naphthalene	2.0	U	2.0		ug/L		04/10/23 15:57	04/11/23 01:32	1
Phenanthrene	5.0	U	5.0		ug/L		04/10/23 15:57	04/11/23 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*32 - 115*	*04/10/23 15:57*	*04/11/23 01:32*	*1*
Nitrobenzene-d5 (Surr)	*55*		*41 - 121*	*04/10/23 15:57*	*04/11/23 01:32*	*1*
p-Terphenyl-d14 (Surr)	*58*		*28 - 134*	*04/10/23 15:57*	*04/11/23 01:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	**130**		25		ug/L		04/10/23 15:57	04/12/23 07:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*32 - 115*	*04/10/23 15:57*	*04/12/23 07:48*	*5*
Nitrobenzene-d5 (Surr)	*55*		*41 - 121*	*04/10/23 15:57*	*04/12/23 07:48*	*5*
p-Terphenyl-d14 (Surr)	*51*		*28 - 134*	*04/10/23 15:57*	*04/12/23 07:48*	*5*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**73**		2.0		ug/L		04/07/23 09:15	04/11/23 18:12	1
Iron	**32000**		50		ug/L		04/07/23 09:15	04/11/23 18:12	1
Manganese	**4100**		10		ug/L		04/07/23 09:15	04/11/23 18:25	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**56**		10		mg/L			04/10/23 09:13	1

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: Trip Blank
Lab Sample ID: 410-121299-3
Date Collected: 04/03/23 10:50
Matrix: Water
Date Received: 04/04/23 09:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/10/23 13:16	1
Benzene	1.0	U	1.0		ug/L			04/10/23 13:16	1
Chloroethane	1.0	U	1.0		ug/L			04/10/23 13:16	1
Ethylbenzene	1.0	U	1.0		ug/L			04/10/23 13:16	1
Toluene	1.0	U	1.0		ug/L			04/10/23 13:16	1
Vinyl chloride	1.0	U	1.0		ug/L			04/10/23 13:16	1
Xylenes, Total	1.0	U	1.0		ug/L			04/10/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*04/10/23 13:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*04/10/23 13:16*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*		*04/10/23 13:16*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*04/10/23 13:16*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)				
410-121299-1	EFF-040323	113	93	113	96				
410-121299-2	INF-040323	103	97	101	103				
410-121299-3	Trip Blank	109	96	111	97				
LCS 410-362550/1003	Lab Control Sample	105	95	102	107				
MB 410-362550/5	Method Blank	113	88	115	96				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)		
410-121299-1	EFF-040323	84	62	35	60	66	28		
410-121299-2	INF-040323		58		55	58			
410-121299-2 - DL	INF-040323		52		55	51			
LCS 410-362709/2-A	Lab Control Sample	108	71	53	81	85	38		
LCSD 410-362709/3-A	Lab Control Sample Dup	100	63	47	71	80	33		
MB 410-362709/1-A	Method Blank	91	68	52	75	104	39		

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-362550/5
Matrix: Water
Analysis Batch: 362550

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			04/10/23 11:09	1
Benzene	1.0	U	1.0		ug/L			04/10/23 11:09	1
Chloroethane	1.0	U	1.0		ug/L			04/10/23 11:09	1
Ethylbenzene	1.0	U	1.0		ug/L			04/10/23 11:09	1
Toluene	1.0	U	1.0		ug/L			04/10/23 11:09	1
Vinyl chloride	1.0	U	1.0		ug/L			04/10/23 11:09	1
Xylenes, Total	1.0	U	1.0		ug/L			04/10/23 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*04/10/23 11:09*	*1*
4-Bromofluorobenzene (Surr)	*88*		*60 - 140*		*04/10/23 11:09*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*		*04/10/23 11:09*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*04/10/23 11:09*	*1*

Lab Sample ID: LCS 410-362550/1003
Matrix: Water
Analysis Batch: 362550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	22.8		ug/L		114	70 - 130
Benzene	20.0	19.9		ug/L		99	65 - 135
Chloroethane	20.0	25.2		ug/L		126	40 - 160
Ethylbenzene	20.0	19.5		ug/L		97	60 - 140
Toluene	20.0	20.1		ug/L		101	70 - 130
Vinyl chloride	20.0	23.6		ug/L		118	10 - 195
Xylenes, Total	60.0	61.0		ug/L		102	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*107*		*60 - 140*

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

Lab Sample ID: MB 410-362709/1-A
Matrix: Water
Analysis Batch: 362809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		04/10/23 15:57	04/10/23 23:18	1
Acenaphthene	5.0	U	5.0		ug/L		04/10/23 15:57	04/10/23 23:18	1
Aniline	5.0	U	5.0		ug/L		04/10/23 15:57	04/10/23 23:18	1
Fluorene	5.0	U	5.0		ug/L		04/10/23 15:57	04/10/23 23:18	1
Naphthalene	2.0	U	2.0		ug/L		04/10/23 15:57	04/10/23 23:18	1
Nitrobenzene	5.0	U	5.0		ug/L		04/10/23 15:57	04/10/23 23:18	1
Phenanthrene	5.0	U	5.0		ug/L		04/10/23 15:57	04/10/23 23:18	1

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

Lab Sample ID: MB 410-362709/1-A
Matrix: Water
Analysis Batch: 362809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362709

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromofenol (Surr)	91		10 - 150	04/10/23 15:57	04/10/23 23:18	1
2-Fluorobiphenyl (Surr)	68		32 - 115	04/10/23 15:57	04/10/23 23:18	1
2-Fluorophenol (Surr)	52		10 - 83	04/10/23 15:57	04/10/23 23:18	1
Nitrobenzene-d5 (Surr)	75		41 - 121	04/10/23 15:57	04/10/23 23:18	1
p-Terphenyl-d14 (Surr)	104		28 - 134	04/10/23 15:57	04/10/23 23:18	1
Phenol-d5 (Surr)	39		10 - 63	04/10/23 15:57	04/10/23 23:18	1

Lab Sample ID: LCS 410-362709/2-A
Matrix: Water
Analysis Batch: 362809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362709

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2-Methylnaphthalene			50.0	35.4		ug/L		71	50 - 114		
Acenaphthene			50.0	43.0		ug/L		86	47 - 145		
Aniline			50.0	38.5		ug/L		77	21 - 106		
Fluorene			50.0	45.1		ug/L		90	59 - 121		
Naphthalene			50.0	37.5		ug/L		75	21 - 133		
Nitrobenzene			50.0	42.5		ug/L		85	35 - 180		
Phenanthrene			50.0	44.1		ug/L		88	54 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	108		10 - 150
2-Fluorobiphenyl (Surr)	71		32 - 115
2-Fluorophenol (Surr)	53		10 - 83
Nitrobenzene-d5 (Surr)	81		41 - 121
p-Terphenyl-d14 (Surr)	85		28 - 134
Phenol-d5 (Surr)	38		10 - 63

Lab Sample ID: LCSD 410-362709/3-A
Matrix: Water
Analysis Batch: 362809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 362709

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene			50.0	32.9		ug/L		66	50 - 114	7	30
Acenaphthene			50.0	39.9		ug/L		80	47 - 145	7	30
Aniline			50.0	32.5		ug/L		65	21 - 106	17	30
Fluorene			50.0	41.5		ug/L		83	59 - 121	8	30
Naphthalene			50.0	33.2		ug/L		66	21 - 133	12	30
Nitrobenzene			50.0	38.8		ug/L		78	35 - 180	9	30
Phenanthrene			50.0	38.9		ug/L		78	54 - 120	13	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromofenol (Surr)	100		10 - 150
2-Fluorobiphenyl (Surr)	63		32 - 115
2-Fluorophenol (Surr)	47		10 - 83
Nitrobenzene-d5 (Surr)	71		41 - 121
p-Terphenyl-d14 (Surr)	80		28 - 134
Phenol-d5 (Surr)	33		10 - 63

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-361972/1-A
Matrix: Water
Analysis Batch: 362819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		04/07/23 09:12	04/10/23 19:52	1
Iron	50	U	50		ug/L		04/07/23 09:12	04/10/23 19:52	1
Manganese	2.0	U	2.0		ug/L		04/07/23 09:12	04/10/23 19:52	1

Lab Sample ID: LCS 410-361972/2-A
Matrix: Water
Analysis Batch: 362819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	527		ug/L		105	85 - 115
Iron	5000	5270		ug/L		105	85 - 115
Manganese	500	525		ug/L		105	85 - 115

Lab Sample ID: 410-121299-1 MS
Matrix: Water
Analysis Batch: 362819

Client Sample ID: EFF-040323
Prep Type: Total/NA
Prep Batch: 361972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	2.0	U	500	534		ug/L		107	70 - 130
Iron	56		5000	5260		ug/L		104	70 - 130
Manganese	20		500	538		ug/L		103	70 - 130

Lab Sample ID: 410-121299-1 DU
Matrix: Water
Analysis Batch: 362819

Client Sample ID: EFF-040323
Prep Type: Total/NA
Prep Batch: 361972

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Iron	56		58.1		ug/L		3	20
Manganese	20		19.4		ug/L		5	20

Lab Sample ID: MB 410-361973/1-A
Matrix: Water
Analysis Batch: 363324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		04/07/23 09:15	04/11/23 17:46	1
Iron	50	U	50		ug/L		04/07/23 09:15	04/11/23 17:46	1
Manganese	2.0	U	2.0		ug/L		04/07/23 09:15	04/11/23 17:46	1

Lab Sample ID: LCS 410-361973/2-A
Matrix: Water
Analysis Batch: 363324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361973

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	506		ug/L		101	85 - 115
Iron	5000	4900		ug/L		98	85 - 115
Manganese	500	498		ug/L		100	85 - 115

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-121299-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-362532/1
Matrix: Water
Analysis Batch: 362532

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			04/10/23 09:13	1

Lab Sample ID: LCS 410-362532/2
Matrix: Water
Analysis Batch: 362532

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	147		mg/L		98	89 - 105

Lab Sample ID: 410-121299-2 DU
Matrix: Water
Analysis Batch: 362532

Client Sample ID: INF-040323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	56		61.7	F3	mg/L		10	5

GC/MS VOA

Analysis Batch: 362550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-1	EFF-040323	Total/NA	Water	624.1	
410-121299-2	INF-040323	Total/NA	Water	624.1	
410-121299-3	Trip Blank	Total/NA	Water	624.1	
MB 410-362550/5	Method Blank	Total/NA	Water	624.1	
LCS 410-362550/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 362709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-1	EFF-040323	Total/NA	Water	625.1	
410-121299-2	INF-040323	Total/NA	Water	625.1	
410-121299-2 - DL	INF-040323	Total/NA	Water	625.1	
MB 410-362709/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-362709/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-362709/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 362809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-1	EFF-040323	Total/NA	Water	625.1	362709
410-121299-2	INF-040323	Total/NA	Water	625.1	362709
MB 410-362709/1-A	Method Blank	Total/NA	Water	625.1	362709
LCS 410-362709/2-A	Lab Control Sample	Total/NA	Water	625.1	362709
LCSD 410-362709/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	362709

Analysis Batch: 363347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-2 - DL	INF-040323	Total/NA	Water	625.1	362709

Metals

Prep Batch: 361972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-1	EFF-040323	Total/NA	Water	200.8 Rev 5.4	
MB 410-361972/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-361972/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	
410-121299-1 MS	EFF-040323	Total/NA	Water	200.8 Rev 5.4	
410-121299-1 DU	EFF-040323	Total/NA	Water	200.8 Rev 5.4	

Prep Batch: 361973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-2	INF-040323	Total/NA	Water	200.8 Rev 5.4	
MB 410-361973/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-361973/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 362819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-1	EFF-040323	Total/NA	Water	200.8 Rev 5.4	361972
MB 410-361972/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	361972
LCS 410-361972/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	361972
410-121299-1 MS	EFF-040323	Total/NA	Water	200.8 Rev 5.4	361972
410-121299-1 DU	EFF-040323	Total/NA	Water	200.8 Rev 5.4	361972

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Metals

Analysis Batch: 363324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-2	INF-040323	Total/NA	Water	200.8 Rev 5.4	361973
410-121299-2	INF-040323	Total/NA	Water	200.8 Rev 5.4	361973
MB 410-361973/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	361973
LCS 410-361973/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	361973

General Chemistry

Analysis Batch: 362532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-121299-1	EFF-040323	Total/NA	Water	2540D-2015	
410-121299-2	INF-040323	Total/NA	Water	2540D-2015	
MB 410-362532/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-362532/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-121299-2 DU	INF-040323	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-040323
Lab Sample ID: 410-121299-1
Date Collected: 04/03/23 10:30
Matrix: Water
Date Received: 04/04/23 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	362550	UJML	ELLE	04/10/23 12:34
Total/NA	Prep	625.1			362709	QJZ6	ELLE	04/10/23 15:57
Total/NA	Analysis	625.1		1	362809	W6XI	ELLE	04/11/23 01:10
Total/NA	Prep	200.8 Rev 5.4			361972	HUH3	ELLE	04/07/23 09:12
Total/NA	Analysis	200.8 Rev 5.4		1	362819	UCIG	ELLE	04/10/23 20:02
Total/NA	Analysis	2540D-2015		1	362532	M98K	ELLE	04/10/23 09:13 - 04/11/23 06:05 [1]

Client Sample ID: INF-040323
Lab Sample ID: 410-121299-2
Date Collected: 04/03/23 10:50
Matrix: Water
Date Received: 04/04/23 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	362550	UJML	ELLE	04/10/23 12:55
Total/NA	Prep	625.1			362709	QJZ6	ELLE	04/10/23 15:57
Total/NA	Analysis	625.1		1	362809	W6XI	ELLE	04/11/23 01:32
Total/NA	Prep	625.1	DL		362709	QJZ6	ELLE	04/10/23 15:57
Total/NA	Analysis	625.1	DL	5	363347	W6XI	ELLE	04/12/23 07:48
Total/NA	Prep	200.8 Rev 5.4			361973	UAMX	ELLE	04/07/23 09:15
Total/NA	Analysis	200.8 Rev 5.4		1	363324	UCIG	ELLE	04/11/23 18:12
Total/NA	Prep	200.8 Rev 5.4			361973	UAMX	ELLE	04/07/23 09:15
Total/NA	Analysis	200.8 Rev 5.4		5	363324	UCIG	ELLE	04/11/23 18:25
Total/NA	Analysis	2540D-2015		1	362532	M98K	ELLE	04/10/23 09:13 - 04/11/23 06:05 [1]

Client Sample ID: Trip Blank
Lab Sample ID: 410-121299-3
Date Collected: 04/03/23 10:50
Matrix: Water
Date Received: 04/04/23 09:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	362550	UJML	ELLE	04/10/23 13:16

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-17-23

Method Summary

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-121299-1
Project/Site: Wellsville OU2 - Monthly SPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-121299-1	EFF-040323	Water	04/03/23 10:30	04/04/23 09:46
410-121299-2	INF-040323	Water	04/03/23 10:50	04/04/23 09:46
410-121299-3	Trip Blank	Water	04/03/23 10:50	04/04/23 09:46

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program La

BP/ARC Project Name: Wellsville OU2 - Monthly SPDES
BP/ARC Facility No: USEPA ID: NY-D98053215

410-121299 Chain of Custody

Standard Rush TAT: Yes ___ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Amanda Barnhart	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-559-3860	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72168	Parsons Project Manager: Allyson Kriney, allyson kriney@parsons com	Email EDD To: jonb@on-sitehs com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: John Frankenthal
EBM Phone: 312-809-4117
EBM Email: John.Frankenthal@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS	Report Type & QC Level
	EFF-040323	4/3/2023	1030		X			7	3		1	3			3	2	1	1	pH= 7.16
	INF-040323	4/3/2023	1050		X			7	3		1	3			3	2	1	1	pH= 6.60
	Trip blank	4/3/2023	1050		X			2				2							
	Temp blank	4/3/2023			X			1											
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																		
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																		

Report Type & QC Level: Standard X; Full Data Package

Comments: Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	4/3/23	1200			
Shipment Method: FedEx Ship Date: 4/3/2023	on-site					
Shipment Tracking No: 817084573363				JM - FedEx	4/4/23	9:46

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 2.0 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

4/16/2023

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-121299-1

Login Number: 121299

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-121299-1

SDG No.:

Batch Number: 362550 | Batch Start Date: 04/10/23 09:53 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-362550/5		624.1		5 mL	5 mL				2680
410-121299-A-1	EFF-040323	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-121299-A-2	INF-040323	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-121299-A-3	Trip Blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-362550/1003		624.1		5 mL	5 mL				2680

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_1:10_AF 00040	MSV_624.1_ISS 00008	MSV_LCS_2CEVE 00109	MSV_LCS_ACR 00013	MSV_LCS_Gases 00137	MSV_LCS_VOC#1 00104
MB 410-362550/5		624.1		86 uL	5 uL				
410-121299-A-1	EFF-040323	624.1	T		5 uL				
410-121299-A-2	INF-040323	624.1	T		5 uL				
410-121299-A-3	Trip Blank	624.1	T		5 uL				
LCS 410-362550/1003		624.1			5 uL	50 uL	2 uL	50 uL	50 uL

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-121299-1

SDG No.:

Batch Number: 362709 | Batch Start Date: 04/10/23 15:57 | Batch Analyst: Sanchez, Osvaldo

Batch Method: 625.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-362709/1		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
LCS 410-362709/2		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
LCSD 410-362709/3		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
410-121299-E-1	EFF-040323	625.1, 625.1	T	413.85 g	167.39 g	246.5 mL	1 mL	n/a SU	11 SU
410-121299-E-2	INF-040323	625.1, 625.1	T	415.39 g	167.34 g	248.1 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_625_SS 00013	OP_MINLCS1_MS 00160	AnalysisComment		
MB 410-362709/1		625.1, 625.1		2 SU	0.25 mL		tap water		
LCS 410-362709/2		625.1, 625.1		2 SU	0.25 mL	1 mL	tap water		
LCSD 410-362709/3		625.1, 625.1		2 SU	0.25 mL	1 mL	tap water		
410-121299-E-1	EFF-040323	625.1, 625.1	T	2 SU	0.25 mL		clear		
410-121299-E-2	INF-040323	625.1, 625.1	T	2 SU	0.25 mL		tan tint		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-121299-1

SDG No.:

Batch Number: 362709 | Batch Start Date: 04/10/23 15:57 | Batch Analyst: Sanchez, Osvaldo

Batch Method: 625.1 | Batch End Date:

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067 DBH82588 AS86224 SF90133
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4:225553
Base Used to Adjust pH ID	NaOH:4202B64
Prep Solvent ID	MeCl2:230080
Prep Solvent Volume Used	90 mL
Extraction 1 Start Time	04/10/2023 15:57
Extraction 1 End Time	04/10/2023 21:18
Na2SO4 ID	23098A
Analyst ID - Concentration	OS11067 DBH82588 AS86224 SF90133
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-121299-1

SDG No.:

Batch Number: 361972 | Batch Start Date: 04/10/23 07:40 | Batch Analyst: Dickens, Emily

Batch Method: 200.8 Rev 5.4 | Batch End Date: 04/10/23 12:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00026	MP_1:1HNO3 00039	MT_LCS-SPK-A 00024	MT_LCS-SPK-B 00023
MB 410-361972/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-361972/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-121299-H-1	EFF-040323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-121299-J-1 DU	EFF-040323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-121299-I-1 MS	EFF-040323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	12
Digestion Tube/Cup ID	2210117
Thermometer ID	3917
Pipette ID	g20054g
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-121299-1

SDG No.:

Batch Number: 361973 | Batch Start Date: 04/10/23 21:30 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 | Batch End Date: 04/11/23 01:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00026	MP_1:1HNO3 00039	MT_LCS-SPK-A 00024	MT_LCS-SPK-B 00023
MB 410-361973/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-361973/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-121299-H-2	INF-040323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	12
Digestion Tube/Cup ID	2210117
Thermometer ID	3917
Pipette ID	g20054g
Analyst ID - Spike Witness Analyst	0862
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-121299-1

SDG No.:

Batch Number: 362532 | Batch Start Date: 04/10/23 10:45 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 04/11/23 06:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-362532/1		2540D-2015		hQ06Q	0.1330 g	1000 mL	0.1327 g	-0.0003 g	1000 mL
LCS 410-362532/2		2540D-2015		hQ06R	0.1270 g	1000 mL	0.2740 g	0.1470 g	1000 mL
410-121299-G-2	INF-040323	2540D-2015	T	hQ06S	0.1277 g	300 mL	0.1444 g	0.0167 g	1000 mL
410-121299-G-2 DU	INF-040323	2540D-2015	T	hQ06T	0.1265 g	300 mL	0.1450 g	0.0185 g	1000 mL
410-121299-G-1	EFF-040323	2540D-2015	T	hQ06W	0.1271 g	1000 mL	0.1268 g	-0.0003 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00036	AnalysisComment		
MB 410-362532/1		2540D-2015		0.1327 g	0.133 g				
LCS 410-362532/2		2540D-2015		0.274 g	0.127 g	0.1505 g	vial 22 0.1505		
410-121299-G-2	INF-040323	2540D-2015	T	0.1444 g	0.1277 g		100+100+50+50 slow,cloudy		
410-121299-G-2 DU	INF-040323	2540D-2015	T	0.145 g	0.1265 g				
410-121299-G-1	EFF-040323	2540D-2015	T	0.1268 g	0.1271 g		250+250+250+250		

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600034-2348-r1
Balance ID	27505
Oven ID	7492
Thermometer ID	1022
Date/Time - In	04/10/2023 10:45
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	04/11/2023 06:05
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-121299-1

SDG No.:

Batch Number: 362532 Batch Start Date: 04/10/23 10:45 Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 Batch End Date: 04/11/23 06:05

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 5/15/2023 9:54:54 AM

JOB DESCRIPTION

BP Wellsville, NY

JOB NUMBER

410-125155-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

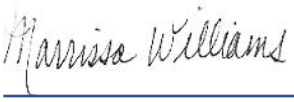
myEOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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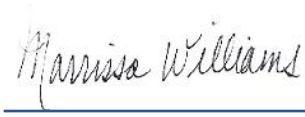

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Client: On-Site Health and Safety
Job ID: 410-125155-1
Project/Site: BP Wellsville, NY

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

Job ID: 410-125155-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-125155-1

Receipt
The samples were received on 5/3/2023 9:55 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 0.9°C

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

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

Client Sample ID: EFF-050223 — Lab Sample ID: 410-125155-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	98		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	100		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-050223 — Lab Sample ID: 410-125155-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.1		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	3.0		1.0		ug/L	1		624.1	Total/NA
Toluene	3.1		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	4.9		1.0		ug/L	1		624.1	Total/NA
Aniline - DL	420		51		ug/L	10		625.1	Total/NA
Nitrobenzene - DL	290		51		ug/L	10		625.1	Total/NA
Arsenic	47		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	30000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4400		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	46		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip blank — Lab Sample ID: 410-125155-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-050223

Lab Sample ID: 410-125155-1

Date Collected: 05/02/23 10:15

Matrix: Water

Date Received: 05/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			05/07/23 14:06	1
Benzene	1.0	U	1.0		ug/L			05/07/23 14:06	1
Chloroethane	1.0	U	1.0		ug/L			05/07/23 14:06	1
Ethylbenzene	1.0	U	1.0		ug/L			05/07/23 14:06	1
Toluene	1.0	U	1.0		ug/L			05/07/23 14:06	1
Vinyl chloride	1.0	U	1.0		ug/L			05/07/23 14:06	1
Xylenes, Total	1.0	U	1.0		ug/L			05/07/23 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*05/07/23 14:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*05/07/23 14:06*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*05/07/23 14:06*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*05/07/23 14:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.2	U	5.2		ug/L		05/08/23 16:11	05/09/23 03:32	1
Acenaphthene	5.2	U	5.2		ug/L		05/08/23 16:11	05/09/23 03:32	1
Aniline	5.2	U	5.2		ug/L		05/08/23 16:11	05/09/23 03:32	1
Fluorene	5.2	U	5.2		ug/L		05/08/23 16:11	05/09/23 03:32	1
Naphthalene	2.1	U	2.1		ug/L		05/08/23 16:11	05/09/23 03:32	1
Nitrobenzene	5.2	U	5.2		ug/L		05/08/23 16:11	05/09/23 03:32	1
Phenanthrene	5.2	U	5.2		ug/L		05/08/23 16:11	05/09/23 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*32 - 115*	*05/08/23 16:11*	*05/09/23 03:32*	*1*
Nitrobenzene-d5 (Surr)	*74*		*41 - 121*	*05/08/23 16:11*	*05/09/23 03:32*	*1*
p-Terphenyl-d14 (Surr)	*66*		*28 - 134*	*05/08/23 16:11*	*05/09/23 03:32*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		05/09/23 06:32	05/09/23 17:25	1
Iron	**98**		50		ug/L		05/09/23 06:32	05/09/23 17:25	1
Manganese	**100**		2.0		ug/L		05/09/23 06:32	05/09/23 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			05/04/23 07:58	1

Client Sample ID: INF-050223

Lab Sample ID: 410-125155-2

Date Collected: 05/02/23 10:35

Matrix: Water

Date Received: 05/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			05/07/23 14:28	1
Benzene	**7.1**		1.0		ug/L			05/07/23 14:28	1
Chloroethane	1.0	U	1.0		ug/L			05/07/23 14:28	1
Ethylbenzene	**3.0**		1.0		ug/L			05/07/23 14:28	1
Toluene	**3.1**		1.0		ug/L			05/07/23 14:28	1

Client Sample ID: INF-050223

Lab Sample ID: 410-125155-2

Date Collected: 05/02/23 10:35

Matrix: Water

Date Received: 05/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0		ug/L			05/07/23 14:28	1
Xylenes, Total	**4.9**		1.0		ug/L			05/07/23 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*05/07/23 14:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*05/07/23 14:28*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*05/07/23 14:28*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*05/07/23 14:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U	5.1		ug/L		05/08/23 16:11	05/09/23 03:53	1
Acenaphthene	5.1	U	5.1		ug/L		05/08/23 16:11	05/09/23 03:53	1
Fluorene	5.1	U	5.1		ug/L		05/08/23 16:11	05/09/23 03:53	1
Naphthalene	2.0	U	2.0		ug/L		05/08/23 16:11	05/09/23 03:53	1
Phenanthrene	5.1	U	5.1		ug/L		05/08/23 16:11	05/09/23 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*32 - 115*	*05/08/23 16:11*	*05/09/23 03:53*	*1*
Nitrobenzene-d5 (Surr)	*64*		*41 - 121*	*05/08/23 16:11*	*05/09/23 03:53*	*1*
p-Terphenyl-d14 (Surr)	*61*		*28 - 134*	*05/08/23 16:11*	*05/09/23 03:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**420**		51		ug/L		05/08/23 16:11	05/09/23 23:39	10
Nitrobenzene	**290**		51		ug/L		05/08/23 16:11	05/09/23 23:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*32 - 115*	*05/08/23 16:11*	*05/09/23 23:39*	*10*
Nitrobenzene-d5 (Surr)	*65*		*41 - 121*	*05/08/23 16:11*	*05/09/23 23:39*	*10*
p-Terphenyl-d14 (Surr)	*48*		*28 - 134*	*05/08/23 16:11*	*05/09/23 23:39*	*10*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**47**		2.0		ug/L		05/09/23 06:32	05/09/23 17:23	1
Iron	**30000**		50		ug/L		05/09/23 06:32	05/09/23 17:23	1
Manganese	**4400**		2.0		ug/L		05/09/23 06:32	05/09/23 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**46**		6.0		mg/L			05/04/23 11:34	1

Client Sample ID: Trip blank

Lab Sample ID: 410-125155-3

Date Collected: 05/02/23 10:35

Matrix: Water

Date Received: 05/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			05/07/23 12:57	1
Benzene	1.0	U	1.0		ug/L			05/07/23 12:57	1
Chloroethane	1.0	U	1.0		ug/L			05/07/23 12:57	1

Client Sample ID: Trip blank
Date Collected: 05/02/23 10:35
Date Received: 05/03/23 09:55

Lab Sample ID: 410-125155-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0		ug/L			05/07/23 12:57	1
Toluene	1.0	U	1.0		ug/L			05/07/23 12:57	1
Vinyl chloride	1.0	U	1.0		ug/L			05/07/23 12:57	1
Xylenes, Total	1.0	U	1.0		ug/L			05/07/23 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*05/07/23 12:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*05/07/23 12:57*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*05/07/23 12:57*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*05/07/23 12:57*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)				
410-125155-1	EFF-050223	105	99	103	100				
410-125155-2	INF-050223	98	104	99	102				
410-125155-3	Trip blank	104	101	103	99				
LCS 410-372998/1003	Lab Control Sample	102	100	103	101				
MB 410-372998/5	Method Blank	101	100	103	101				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)		
410-125155-1	EFF-050223		83		74	66			
410-125155-2	INF-050223		75		64	61			
410-125155-2 - DL	INF-050223		62		65	48			
LCS 410-373397/2-A	Lab Control Sample	79	52	32	52	64	23		
MB 410-373397/1-A	Method Blank	78	58	37	56	78	26		

Surrogate Legend

TBP = 2,4,6-Tribromofenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-372998/5
Matrix: Water
Analysis Batch: 372998

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			05/07/23 11:52	1
Benzene	1.0	U	1.0		ug/L			05/07/23 11:52	1
Chloroethane	1.0	U	1.0		ug/L			05/07/23 11:52	1
Ethylbenzene	1.0	U	1.0		ug/L			05/07/23 11:52	1
Toluene	1.0	U	1.0		ug/L			05/07/23 11:52	1
Vinyl chloride	1.0	U	1.0		ug/L			05/07/23 11:52	1
Xylenes, Total	1.0	U	1.0		ug/L			05/07/23 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*		*05/07/23 11:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*05/07/23 11:52*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*05/07/23 11:52*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*05/07/23 11:52*	*1*

Lab Sample ID: LCS 410-372998/1003
Matrix: Water
Analysis Batch: 372998

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethane			20.0	19.8		ug/L		99	70 - 130		
Benzene			20.0	22.0		ug/L		110	65 - 135		
Chloroethane			20.0	22.3		ug/L		111	40 - 160		
Ethylbenzene			20.0	20.5		ug/L		103	60 - 140		
Toluene			20.0	20.9		ug/L		105	70 - 130		
Vinyl chloride			20.0	21.9		ug/L		109	10 - 195		
Xylenes, Total			60.0	61.9		ug/L		103	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*101*		*60 - 140*

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

Lab Sample ID: MB 410-373397/1-A
Matrix: Water
Analysis Batch: 373489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		05/08/23 16:11	05/08/23 23:13	1
Acenaphthene	5.0	U	5.0		ug/L		05/08/23 16:11	05/08/23 23:13	1
Aniline	5.0	U	5.0		ug/L		05/08/23 16:11	05/08/23 23:13	1
Fluorene	5.0	U	5.0		ug/L		05/08/23 16:11	05/08/23 23:13	1
Naphthalene	2.0	U	2.0		ug/L		05/08/23 16:11	05/08/23 23:13	1
Nitrobenzene	5.0	U	5.0		ug/L		05/08/23 16:11	05/08/23 23:13	1
Phenanthrene	5.0	U	5.0		ug/L		05/08/23 16:11	05/08/23 23:13	1

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

Lab Sample ID: MB 410-373397/1-A
Matrix: Water
Analysis Batch: 373489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373397

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromofenol (Surr)	*78*		*10 - 150*	*05/08/23 16:11*	*05/08/23 23:13*	*1*
2-Fluorobiphenyl (Surr)	*58*		*32 - 115*	*05/08/23 16:11*	*05/08/23 23:13*	*1*
2-Fluorophenol (Surr)	*37*		*10 - 83*	*05/08/23 16:11*	*05/08/23 23:13*	*1*
Nitrobenzene-d5 (Surr)	*56*		*41 - 121*	*05/08/23 16:11*	*05/08/23 23:13*	*1*
p-Terphenyl-d14 (Surr)	*78*		*28 - 134*	*05/08/23 16:11*	*05/08/23 23:13*	*1*
Phenol-d5 (Surr)	*26*		*10 - 63*	*05/08/23 16:11*	*05/08/23 23:13*	*1*

Lab Sample ID: LCS 410-373397/2-A
Matrix: Water
Analysis Batch: 373489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	28.1		ug/L		56	50 - 114
Acenaphthene	50.0	28.9		ug/L		58	47 - 145
Aniline	50.0	16.6		ug/L		33	21 - 106
Fluorene	50.0	32.8		ug/L		66	59 - 121
Naphthalene	50.0	27.7		ug/L		55	21 - 133
Nitrobenzene	50.0	27.7		ug/L		55	35 - 180
Phenanthrene	50.0	30.3		ug/L		61	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromofenol (Surr)	*79*		*10 - 150*
2-Fluorobiphenyl (Surr)	*52*		*32 - 115*
2-Fluorophenol (Surr)	*32*		*10 - 83*
Nitrobenzene-d5 (Surr)	*52*		*41 - 121*
p-Terphenyl-d14 (Surr)	*64*		*28 - 134*
Phenol-d5 (Surr)	*23*		*10 - 63*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-373550/1-A
Matrix: Water
Analysis Batch: 373929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		05/09/23 06:32	05/09/23 16:56	1
Iron	50	U	50		ug/L		05/09/23 06:32	05/09/23 16:56	1
Manganese	2.0	U	2.0		ug/L		05/09/23 06:32	05/09/23 16:56	1

Lab Sample ID: LCS 410-373550/2-A
Matrix: Water
Analysis Batch: 373929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	504		ug/L		101	85 - 115
Iron	5000	5090		ug/L		102	85 - 115
Manganese	500	497		ug/L		99	85 - 115

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-371935/1
Matrix: Water
Analysis Batch: 371935

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			05/04/23 07:58	1

Lab Sample ID: LCS 410-371935/2
Matrix: Water
Analysis Batch: 371935

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	146		mg/L		97	89 - 105

Lab Sample ID: MB 410-372113/1
Matrix: Water
Analysis Batch: 372113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			05/04/23 11:34	1

Lab Sample ID: LCS 410-372113/2
Matrix: Water
Analysis Batch: 372113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	133		mg/L		89	89 - 105

GC/MS VOA

Analysis Batch: 372998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-1	EFF-050223	Total/NA	Water	624.1	
410-125155-2	INF-050223	Total/NA	Water	624.1	
410-125155-3	Trip blank	Total/NA	Water	624.1	
MB 410-372998/5	Method Blank	Total/NA	Water	624.1	
LCS 410-372998/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 373397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-1	EFF-050223	Total/NA	Water	625.1	
410-125155-2	INF-050223	Total/NA	Water	625.1	
410-125155-2 - DL	INF-050223	Total/NA	Water	625.1	
MB 410-373397/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-373397/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 373489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-1	EFF-050223	Total/NA	Water	625.1	373397
410-125155-2	INF-050223	Total/NA	Water	625.1	373397
MB 410-373397/1-A	Method Blank	Total/NA	Water	625.1	373397
LCS 410-373397/2-A	Lab Control Sample	Total/NA	Water	625.1	373397

Analysis Batch: 373909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-2 - DL	INF-050223	Total/NA	Water	625.1	373397

Metals

Prep Batch: 373550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-1	EFF-050223	Total/NA	Water	200.8 Rev 5.4	
410-125155-2	INF-050223	Total/NA	Water	200.8 Rev 5.4	
MB 410-373550/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-373550/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 373929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-1	EFF-050223	Total/NA	Water	200.8 Rev 5.4	373550
410-125155-2	INF-050223	Total/NA	Water	200.8 Rev 5.4	373550
MB 410-373550/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	373550
LCS 410-373550/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	373550

General Chemistry

Analysis Batch: 371935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-1	EFF-050223	Total/NA	Water	2540D-2015	
MB 410-371935/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-371935/2	Lab Control Sample	Total/NA	Water	2540D-2015	

QC Association Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

General Chemistry

Analysis Batch: 372113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-125155-2	INF-050223	Total/NA	Water	2540D-2015	
MB 410-372113/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-372113/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

Client Sample ID: EFF-050223

Lab Sample ID: 410-125155-1

Date Collected: 05/02/23 10:15

Matrix: Water

Date Received: 05/03/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	372998	UJML	ELLE	05/07/23 14:06
Total/NA	Prep	625.1			373397	T9CY	ELLE	05/08/23 16:11
Total/NA	Analysis	625.1		1	373489	P7EB	ELLE	05/09/23 03:32
Total/NA	Prep	200.8 Rev 5.4			373550	HUH3	ELLE	05/09/23 06:32
Total/NA	Analysis	200.8 Rev 5.4		1	373929	UCIG	ELLE	05/09/23 17:25
Total/NA	Analysis	2540D-2015		1	371935	M98K	ELLE	05/04/23 07:58 - 05/05/23 22:30 [1]

Client Sample ID: INF-050223

Lab Sample ID: 410-125155-2

Date Collected: 05/02/23 10:35

Matrix: Water

Date Received: 05/03/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	372998	UJML	ELLE	05/07/23 14:28
Total/NA	Prep	625.1			373397	T9CY	ELLE	05/08/23 16:11
Total/NA	Analysis	625.1		1	373489	P7EB	ELLE	05/09/23 03:53
Total/NA	Prep	625.1	DL		373397	T9CY	ELLE	05/08/23 16:11
Total/NA	Analysis	625.1	DL	10	373909	P7EB	ELLE	05/09/23 23:39
Total/NA	Prep	200.8 Rev 5.4			373550	HUH3	ELLE	05/09/23 06:32
Total/NA	Analysis	200.8 Rev 5.4		1	373929	UCIG	ELLE	05/09/23 17:23
Total/NA	Analysis	2540D-2015		1	372113	M98K	ELLE	05/04/23 11:34 - 05/05/23 21:30 [1]

Client Sample ID: Trip blank

Lab Sample ID: 410-125155-3

Date Collected: 05/02/23 10:35

Matrix: Water

Date Received: 05/03/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	372998	UJML	ELLE	05/07/23 12:57

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-125155-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-125155-1	EFF-050223	Water	05/02/23 10:15	05/03/23 09:55
410-125155-2	INF-050223	Water	05/02/23 10:35	05/03/23 09:55
410-125155-3	Trip blank	Water	05/02/23 10:35	05/03/23 09:55

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Project Name: Wellsville OU2 - Monthly SPDES
Req Due Date (mm/dd/yy): S
BP/ARC Facility No: USEPA ID: NY-D98053215
Lab Work Order Number:
410-125155 Chain of Custody

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72169	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS	Report Type & QC Level: Comments
	EFF-050223	5/2/2023	1015		X		7	3		1	3			3	2	1	1	pH= 7.20
	INF-050223	5/2/2023	1035		X		7	3		1	3			3	2	1	1	pH= 6.71
	Trip blank	5/2/2023	1035		X		2				2							
	Temp blank	5/2/2023			X		1											
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																	
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																	

Report Type & QC Level: Standard X; Full Data Package

Comments
Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Scott Watson						
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	5/2/23	1200			
Shipment Method: FedEx Ship Date: 5/2/2023						
Shipment Tracking No: 817410093794	on-site			MMR Hunt	5/3/23	0955

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

mB

0.9

A&I

5/15/2023

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-125155-1

Login Number: 125155

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Ballard, Megan

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-125155-1

SDG No.:

Batch Number: 372998 | Batch Start Date: 05/07/23 10:30 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-372998/5		624.1		5 mL	5 mL				2684
410-125155-A-3	Trip blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-125155-A-1	EFF-050223	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-125155-A-2	INF-050223	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-372998/1003		624.1		5 mL	5 mL				2684

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00008	MSV_LCS_2CEVE 00112	MSV_LCS_ACR 00015	MSV_LCS_Gases 00140	MSV_LCS_VOC#1 00107	
MB 410-372998/5		624.1		5 uL					
410-125155-A-3	Trip blank	624.1	T	5 uL					
410-125155-A-1	EFF-050223	624.1	T	5 uL					
410-125155-A-2	INF-050223	624.1	T	5 uL					
LCS 410-372998/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-125155-1

SDG No.:

Batch Number: 373397 | Batch Start Date: 05/08/23 16:11 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 625.1 | Batch End Date: 05/08/23 20:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-373397/1		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
LCS 410-373397/2		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
410-125155-D-1	EFF-050223	625.1, 625.1	T	410.48 g	170.13 g	240.4 mL	1 mL	n/a SU	11 SU
410-125155-D-2	INF-050223	625.1, 625.1	T	416.39 g	170.27 g	246.1 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_625_SS 00014	OP_MINLCS1_MS 00164	AnalysisComment		
MB 410-373397/1		625.1, 625.1		2 SU	0.25 mL		tap water		
LCS 410-373397/2		625.1, 625.1		2 SU	0.25 mL	1 mL	tap water		
410-125155-D-1	EFF-050223	625.1, 625.1	T	2 SU	0.25 mL		clear		
410-125155-D-2	INF-050223	625.1, 625.1	T	2 SU	0.25 mL		orange cloudy		

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	DBH82588 AS86224
Analyst ID - Spike Analyst	DBH82588
Acid Used for pH Adjustment ID	H2SO4:225553
Base Used to Adjust pH ID	NaOH:4202B64
Prep Solvent ID	MeCl2:63055
Prep Solvent Volume Used	90
Extraction 1 Start Time	05/08/2023 16:11
Extraction 1 End Time	05/08/2023 20:06
Na2SO4 ID	23124A
Analyst ID - Concentration	DBH82588 AS86224
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-125155-1

SDG No.:

Batch Number: 373397 Batch Start Date: 05/08/23 16:11 Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 625.1 Batch End Date: 05/08/23 20:06

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-125155-1

SDG No.:

Batch Number: 373550 | Batch Start Date: 05/09/23 07:30 | Batch Analyst: Dickens, Emily

Batch Method: 200.8 Rev 5.4 | Batch End Date: 05/09/23 12:21

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00027	MP_1:1HNO3 00041	MT_LCS-SPK-A 00025	MT_LCS-SPK-B 00024
MB 410-373550/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-373550/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-125155-H-2	INF-050223	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-125155-H-1	EFF-050223	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	12
Digestion Tube/Cup ID	2208066
Thermometer ID	3917
Pipette ID	g20054g
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-125155-1

SDG No.:

Batch Number: 371935 | Batch Start Date: 05/04/23 07:58 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 05/06/23 22:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-371935/1		2540D-2015		KMZDE	0.1143 g	1000 mL	0.1141 g	-0.0002 g	1000 mL
LCS 410-371935/2		2540D-2015		KMZDF	0.1121 g	1000 mL	0.2578 g	0.1457 g	1000 mL
410-125155-G-1	EFF-050223	2540D-2015	T	KMZDM	0.1149 g	1000 mL	0.1169 g	0.0020 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_STOCK 00002	AnalysisComment		
MB 410-371935/1		2540D-2015		0.1141 g	0.1143 g				
LCS 410-371935/2		2540D-2015		0.2578 g	0.1121 g	0.1505 g	vial 3 0.1505		
410-125155-G-1	EFF-050223	2540D-2015	T	0.1169 g	0.1149 g		250+250+250+250		

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600040-3109-r2
Balance ID	27505
Oven ID	7492
Thermometer ID	1052
Date/Time - In	05/04/2023 07:58
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	05/06/2023 22:30
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius
Analyst ID 2	oa0898

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-125155-1

SDG No.:

Batch Number: 372113 | Batch Start Date: 05/04/23 11:34 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 05/05/23 21:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-372113/1		2540D-2015		KMZEZ	0.1138 g	1000 mL	0.1138 g	0.0000 g	1000 mL
LCS 410-372113/2		2540D-2015		KMZF0	0.1141 g	1000 mL	0.2472 g	0.1331 g	1000 mL
410-125155-G-2	INF-050223	2540D-2015	T	KMZL5	0.1132 g	500 mL	0.1361 g	0.0229 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00040	AnalysisComment		
MB 410-372113/1		2540D-2015		0.1138 g	0.1138 g				
LCS 410-372113/2		2540D-2015		0.2472 g	0.1141 g	0.15 g	vial 8 0.1505		
410-125155-G-2	INF-050223	2540D-2015	T	0.1361 g	0.1132 g		200+100+100+100 SLOW,CLOUDY		

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600040-3109-r2
Balance ID	27505
Oven ID	7492
Thermometer ID	1052
Date/Time - In	05/04/2023 11:34
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	05/05/2023 21:30
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius
Analyst ID 2	oa898

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 6/22/2023 7:38:49 AM

JOB DESCRIPTION

Annual SPDES

JOB NUMBER

410-129736-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

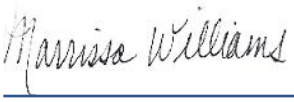
my EOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
U	Indicates the analyte was analyzed for but not detected.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job ID: 410-129736-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-129736-1

Receipt
The samples were received on 6/8/2023 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.9°C

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Analyses were listed on COC, but individual samples were not designated for specific analyses. Entered based upon received containers and methods on COC.

The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): Trip blank (410-129736-3). The laboratory received 4 total containers, while the COC lists 2 total containers.

GC/MS VOA
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: Surrogate recovery for the following samples were outside control limits: EFF-050223 (410-129736-1) and INF-050223 (410-129736-2). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results.

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

HPLC/IC
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 2540C_SingleDry: Total dissolved solids was re-analyzed yielding a result of 210 mg/L. INF-050223 (410-129736-2)

Method 2540C_SingleDry: Total dissolved solids was re-analyzed yielding a result of 200 mg/L. EFF-050223 (410-129736-1)

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Client Sample ID: EFF-050223 — Lab Sample ID: 410-129736-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	120		38		mg/L	25		EPA 300.0 R2.1	Total/NA
Barium	0.21		0.0050		mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.32		0.20		mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	8.9		0.10		mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	1.8		0.010		mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	210	cn	30		mg/L	1		2540C - 2015	Total/NA
Biochemical Oxygen Demand	2.7		1.5		mg/L	1		5210 B-2016	Total/NA

Client Sample ID: INF-050223 — Lab Sample ID: 410-129736-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.4		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	1.7		1.0		ug/L	1		624.1	Total/NA
m&p-Xylene	2.7		1.0		ug/L	1		624.1	Total/NA
Toluene	2.0		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	2.7		1.0		ug/L	1		624.1	Total/NA
Aniline	77	cn	5.1		ug/L	1		625.1	Total/NA
Nitrobenzene - DL	210	cn	51		ug/L	10		625.1	Total/NA
Chloride	100		38		mg/L	25		EPA 300.0 R2.1	Total/NA
Arsenic	0.089		0.050		mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.59		0.0050		mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	29		0.20		mg/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	7.8		0.10		mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	4.6		0.010		mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	160	cn	30		mg/L	1		2540C - 2015	Total/NA
Total Suspended Solids	49		6.0		mg/L	1		2540D-2015	Total/NA
Total Kjeldahl Nitrogen	1.4		1.0		mg/L	1		351.2	Total/NA
Total Phosphorus as P	0.58		0.10		mg/L	1		365.1	Total/NA
Biochemical Oxygen Demand	5.2		1.5		mg/L	1		5210 B-2016	Total/NA

Client Sample ID: Trip blank — Lab Sample ID: 410-129736-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-050223
Date Collected: 06/07/23 08:45
Date Received: 06/08/23 10:10

Lab Sample ID: 410-129736-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/12/23 13:15	1
2-Butanone	2.0	U	2.0		ug/L			06/12/23 13:15	1
Benzene	1.0	U	1.0		ug/L			06/12/23 13:15	1
Chloroethane	1.0	U	1.0		ug/L			06/12/23 13:15	1
Ethylbenzene	1.0	U	1.0		ug/L			06/12/23 13:15	1
m&p-Xylene	1.0	U	1.0		ug/L			06/12/23 13:15	1
o-Xylene	1.0	U	1.0		ug/L			06/12/23 13:15	1
Toluene	1.0	U	1.0		ug/L			06/12/23 13:15	1
Vinyl chloride	1.0	U	1.0		ug/L			06/12/23 13:15	1
Xylenes, Total	1.0	U	1.0		ug/L			06/12/23 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*06/12/23 13:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*06/12/23 13:15*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*06/12/23 13:15*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*06/12/23 13:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U cn	5.0		ug/L		06/14/23 08:20	06/15/23 09:33	1
Acenaphthene	5.0	U cn	5.0		ug/L		06/14/23 08:20	06/15/23 09:33	1
Aniline	5.0	U cn	5.0		ug/L		06/14/23 08:20	06/15/23 09:33	1
Fluorene	5.0	U cn	5.0		ug/L		06/14/23 08:20	06/15/23 09:33	1
Naphthalene	2.0	U cn	2.0		ug/L		06/14/23 08:20	06/15/23 09:33	1
Nitrobenzene	5.0	U cn	5.0		ug/L		06/14/23 08:20	06/15/23 09:33	1
Phenanthrene	5.0	U cn	5.0		ug/L		06/14/23 08:20	06/15/23 09:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*2*	*S1- cn*	*10 - 150*	*06/14/23 08:20*	*06/15/23 09:33*	*1*
2-Fluorobiphenyl (Surr)	*0.4*	*S1- cn*	*32 - 115*	*06/14/23 08:20*	*06/15/23 09:33*	*1*
2-Fluorophenol (Surr)	*5*	*S1- cn*	*10 - 83*	*06/14/23 08:20*	*06/15/23 09:33*	*1*
Nitrobenzene-d5 (Surr)	*0.2*	*S1- cn*	*41 - 121*	*06/14/23 08:20*	*06/15/23 09:33*	*1*
Phenol-d5 (Surr)	*4*	*S1- cn*	*10 - 63*	*06/14/23 08:20*	*06/15/23 09:33*	*1*
p-Terphenyl-d14 (Surr)	*6*	*S1- cn*	*28 - 134*	*06/14/23 08:20*	*06/15/23 09:33*	*1*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		38		mg/L			06/08/23 16:28	25
Nitrogen, Nitrite	0.55	U	0.55		mg/L			06/08/23 16:16	5
Nitrogen, Nitrate	0.55	U	0.55		mg/L			06/08/23 16:16	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/14/23 08:40	06/15/23 11:43	1
Arsenic	0.050	U	0.050		mg/L		06/14/23 08:40	06/15/23 11:43	1
Barium	**0.21**		0.0050		mg/L		06/14/23 08:40	06/15/23 11:43	1
Iron	**0.32**		0.20		mg/L		06/14/23 08:40	06/15/23 11:43	1
Magnesium	**8.9**		0.10		mg/L		06/14/23 08:40	06/15/23 11:43	1
Manganese	**1.8**		0.010		mg/L		06/14/23 08:40	06/15/23 11:43	1

Client Sample ID: EFF-050223

Lab Sample ID: 410-129736-1

Date Collected: 06/07/23 08:45

Matrix: Water

Date Received: 06/08/23 10:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**210**	**cn**	30		mg/L			06/10/23 10:00	1
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			06/09/23 10:36	1
Total Kjeldahl Nitrogen (EPA 351.2)	1.0	U	1.0		mg/L		06/16/23 11:25	06/20/23 13:16	1
Nitrogen, Nitrite (EPA 353.2)	0.050	U	0.050		mg/L			06/09/23 07:38	1
Total Phosphorus as P (EPA 365.1)	0.10	U	0.10		mg/L		06/13/23 15:03	06/14/23 10:32	1
Ammonia-N (SM 4500 NH3 C-2011)	0.75	U	0.75		mg/L		06/12/23 09:39	06/12/23 10:00	1
Biochemical Oxygen Demand (SM 5210 B-2016)	**2.7**		1.5		mg/L			06/08/23 17:25	1

Client Sample ID: INF-050223

Lab Sample ID: 410-129736-2

Date Collected: 06/07/23 09:00

Matrix: Water

Date Received: 06/08/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/12/23 13:38	1
2-Butanone	2.0	U	2.0		ug/L			06/12/23 13:38	1
Benzene	**7.4**		1.0		ug/L			06/12/23 13:38	1
Chloroethane	1.0	U	1.0		ug/L			06/12/23 13:38	1
Ethylbenzene	**1.7**		1.0		ug/L			06/12/23 13:38	1
m&p-Xylene	**2.7**		1.0		ug/L			06/12/23 13:38	1
o-Xylene	1.0	U	1.0		ug/L			06/12/23 13:38	1
Toluene	**2.0**		1.0		ug/L			06/12/23 13:38	1
Vinyl chloride	1.0	U	1.0		ug/L			06/12/23 13:38	1
Xylenes, Total	**2.7**		1.0		ug/L			06/12/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*06/12/23 13:38*	*1*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*06/12/23 13:38*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*06/12/23 13:38*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*06/12/23 13:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U cn	5.1		ug/L		06/14/23 08:20	06/15/23 09:54	1
Acenaphthene	5.1	U cn	5.1		ug/L		06/14/23 08:20	06/15/23 09:54	1
Aniline	**77**	**cn**	5.1		ug/L		06/14/23 08:20	06/15/23 09:54	1
Fluorene	5.1	U cn	5.1		ug/L		06/14/23 08:20	06/15/23 09:54	1
Naphthalene	2.0	U cn	2.0		ug/L		06/14/23 08:20	06/15/23 09:54	1
Phenanthrene	5.1	U cn	5.1		ug/L		06/14/23 08:20	06/15/23 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*59*	*cn*	*10 - 150*	*06/14/23 08:20*	*06/15/23 09:54*	*1*
2-Fluorobiphenyl (Surr)	*58*	*cn*	*32 - 115*	*06/14/23 08:20*	*06/15/23 09:54*	*1*
2-Fluorophenol (Surr)	*11*	*cn*	*10 - 83*	*06/14/23 08:20*	*06/15/23 09:54*	*1*
Nitrobenzene-d5 (Surr)	*61*	*cn*	*41 - 121*	*06/14/23 08:20*	*06/15/23 09:54*	*1*
Phenol-d5 (Surr)	*7*	*S1- cn*	*10 - 63*	*06/14/23 08:20*	*06/15/23 09:54*	*1*
p-Terphenyl-d14 (Surr)	*39*	*cn*	*28 - 134*	*06/14/23 08:20*	*06/15/23 09:54*	*1*

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Client Sample ID: INF-050223

Lab Sample ID: 410-129736-2

Date Collected: 06/07/23 09:00

Matrix: Water

Date Received: 06/08/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	**210**	**cn**	51		ug/L		06/14/23 08:20	06/16/23 00:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*	*cn*	*10 - 150*	*06/14/23 08:20*	*06/16/23 00:12*	*10*
2-Fluorobiphenyl (Surr)	*54*	*cn*	*32 - 115*	*06/14/23 08:20*	*06/16/23 00:12*	*10*
2-Fluorophenol (Surr)	*10*	*cn*	*10 - 83*	*06/14/23 08:20*	*06/16/23 00:12*	*10*
Nitrobenzene-d5 (Surr)	*60*	*cn*	*41 - 121*	*06/14/23 08:20*	*06/16/23 00:12*	*10*
Phenol-d5 (Surr)	*7*	*S1- cn*	*10 - 63*	*06/14/23 08:20*	*06/16/23 00:12*	*10*
p-Terphenyl-d14 (Surr)	*33*	*cn*	*28 - 134*	*06/14/23 08:20*	*06/16/23 00:12*	*10*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		38		mg/L			06/08/23 16:51	25
Nitrogen, Nitrite	0.55	U	0.55		mg/L			06/08/23 16:39	5
Nitrogen, Nitrate	0.55	U	0.55		mg/L			06/08/23 16:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/14/23 08:40	06/15/23 11:46	1
Arsenic	**0.089**		0.050		mg/L		06/14/23 08:40	06/15/23 11:46	1
Barium	**0.59**		0.0050		mg/L		06/14/23 08:40	06/15/23 11:46	1
Iron	**29**		0.20		mg/L		06/14/23 08:40	06/15/23 11:46	1
Magnesium	**7.8**		0.10		mg/L		06/14/23 08:40	06/15/23 11:46	1
Manganese	**4.6**		0.010		mg/L		06/14/23 08:40	06/15/23 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	**160**	**cn**	30		mg/L			06/10/23 10:00	1
Total Suspended Solids (SM 2540D-2015)	**49**		6.0		mg/L			06/09/23 10:36	1
Total Kjeldahl Nitrogen (EPA 351.2)	**1.4**		1.0		mg/L		06/16/23 11:25	06/20/23 13:18	1
Nitrogen, Nitrite (EPA 353.2)	0.050	U	0.050		mg/L			06/09/23 07:38	1
Total Phosphorus as P (EPA 365.1)	**0.58**		0.10		mg/L		06/13/23 15:03	06/14/23 10:32	1
Ammonia-N (SM 4500 NH3 C-2011)	0.75	U	0.75		mg/L		06/12/23 09:39	06/12/23 10:00	1
Biochemical Oxygen Demand (SM 5210 B-2016)	**5.2**		1.5		mg/L			06/08/23 17:25	1

Client Sample ID: Trip blank

Lab Sample ID: 410-129736-3

Date Collected: 06/07/23 09:00

Matrix: Water

Date Received: 06/08/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/12/23 14:01	1
2-Butanone	2.0	U	2.0		ug/L			06/12/23 14:01	1
Benzene	1.0	U	1.0		ug/L			06/12/23 14:01	1
Chloroethane	1.0	U	1.0		ug/L			06/12/23 14:01	1
Ethylbenzene	1.0	U	1.0		ug/L			06/12/23 14:01	1
m&p-Xylene	1.0	U	1.0		ug/L			06/12/23 14:01	1
o-Xylene	1.0	U	1.0		ug/L			06/12/23 14:01	1
Toluene	1.0	U	1.0		ug/L			06/12/23 14:01	1

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Client Sample ID: Trip blank
Date Collected: 06/07/23 09:00
Date Received: 06/08/23 10:10

Lab Sample ID: 410-129736-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0		ug/L			06/12/23 14:01	1
Xylenes, Total	1.0	U	1.0		ug/L			06/12/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*06/12/23 14:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*06/12/23 14:01*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*06/12/23 14:01*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*06/12/23 14:01*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-129736-1	EFF-050223	108	100	109	96
410-129736-2	INF-050223	102	107	102	102
410-129736-3	Trip blank	106	100	108	97
LCS 410-385413/1003	Lab Control Sample	102	102	103	100
MB 410-385413/5	Method Blank	106	100	109	97

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-129736-1	EFF-050223	2 S1- cn	0.4 S1- cn	5 S1- cn	0.2 S1- cn	4 S1- cn	6 S1- cn
410-129736-2	INF-050223	59 cn	58 cn	11 cn	61 cn	7 S1- cn	39 cn
410-129736-2 - DL	INF-050223	52 cn	54 cn	10 cn	60 cn	7 S1- cn	33 cn
LCS 410-386382/2-A	Lab Control Sample	86	60	45	67	32	87
MB 410-386382/1-A	Method Blank	67	52	48	63	35	94

Surrogate Legend

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

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

Lab Sample ID: MB 410-385413/5
Matrix: Water
Analysis Batch: 385413

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/12/23 12:07	1
2-Butanone	2.0	U	2.0		ug/L			06/12/23 12:07	1
Benzene	1.0	U	1.0		ug/L			06/12/23 12:07	1
Chloroethane	1.0	U	1.0		ug/L			06/12/23 12:07	1
Ethylbenzene	1.0	U	1.0		ug/L			06/12/23 12:07	1
m&p-Xylene	1.0	U	1.0		ug/L			06/12/23 12:07	1
o-Xylene	1.0	U	1.0		ug/L			06/12/23 12:07	1
Toluene	1.0	U	1.0		ug/L			06/12/23 12:07	1
Vinyl chloride	1.0	U	1.0		ug/L			06/12/23 12:07	1
Xylenes, Total	1.0	U	1.0		ug/L			06/12/23 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*06/12/23 12:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*06/12/23 12:07*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*		*06/12/23 12:07*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*06/12/23 12:07*	*1*

Lab Sample ID: LCS 410-385413/1003
Matrix: Water
Analysis Batch: 385413

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethane			20.0	17.7		ug/L		88	70 - 130		
2-Butanone			250	212		ug/L		85	60 - 140		
Benzene			20.0	19.7		ug/L		98	65 - 135		
Chloroethane			20.0	15.3		ug/L		77	40 - 160		
Ethylbenzene			20.0	18.9		ug/L		94	60 - 140		
m&p-Xylene			40.0	38.4		ug/L		96	60 - 140		
o-Xylene			20.0	17.5		ug/L		87	60 - 140		
Toluene			20.0	19.1		ug/L		95	70 - 130		
Vinyl chloride			20.0	14.6		ug/L		73	10 - 195		
Xylenes, Total			60.0	55.9		ug/L		93	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

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

Lab Sample ID: MB 410-386382/1-A
Matrix: Water
Analysis Batch: 386694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		06/14/23 08:20	06/15/23 02:54	1
Acenaphthene	5.0	U	5.0		ug/L		06/14/23 08:20	06/15/23 02:54	1

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

Lab Sample ID: MB 410-386382/1-A
Matrix: Water
Analysis Batch: 386694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	5.0	U	5.0		ug/L		06/14/23 08:20	06/15/23 02:54	1
Fluorene	5.0	U	5.0		ug/L		06/14/23 08:20	06/15/23 02:54	1
Naphthalene	2.0	U	2.0		ug/L		06/14/23 08:20	06/15/23 02:54	1
Nitrobenzene	5.0	U	5.0		ug/L		06/14/23 08:20	06/15/23 02:54	1
Phenanthrene	5.0	U	5.0		ug/L		06/14/23 08:20	06/15/23 02:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 150*	*06/14/23 08:20*	*06/15/23 02:54*	*1*
2-Fluorobiphenyl (Surr)	*52*		*32 - 115*	*06/14/23 08:20*	*06/15/23 02:54*	*1*
2-Fluorophenol (Surr)	*48*		*10 - 83*	*06/14/23 08:20*	*06/15/23 02:54*	*1*
Nitrobenzene-d5 (Surr)	*63*		*41 - 121*	*06/14/23 08:20*	*06/15/23 02:54*	*1*
Phenol-d5 (Surr)	*35*		*10 - 63*	*06/14/23 08:20*	*06/15/23 02:54*	*1*
p-Terphenyl-d14 (Surr)	*94*		*28 - 134*	*06/14/23 08:20*	*06/15/23 02:54*	*1*

Lab Sample ID: LCS 410-386382/2-A
Matrix: Water
Analysis Batch: 386694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	33.1		ug/L		66	50 - 114
Acenaphthene	50.0	35.7		ug/L		71	47 - 145
Aniline	50.0	28.9		ug/L		58	21 - 106
Fluorene	50.0	39.7		ug/L		79	59 - 121
Naphthalene	50.0	35.4		ug/L		71	21 - 133
Nitrobenzene	50.0	38.4		ug/L		77	35 - 180
Phenanthrene	50.0	43.7		ug/L		87	54 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 150*
2-Fluorobiphenyl (Surr)	*60*		*32 - 115*
2-Fluorophenol (Surr)	*45*		*10 - 83*
Nitrobenzene-d5 (Surr)	*67*		*41 - 121*
Phenol-d5 (Surr)	*32*		*10 - 63*
p-Terphenyl-d14 (Surr)	*87*		*28 - 134*

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-384443/5
Matrix: Water
Analysis Batch: 384443

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	0.11	U	0.11		mg/L			06/08/23 10:01	1
Nitrogen, Nitrate	0.11	U	0.11		mg/L			06/08/23 10:01	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-384443/3
Matrix: Water
Analysis Batch: 384443

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Nitrite	0.750	0.753		mg/L		100	90 - 110
Nitrogen, Nitrate	0.750	0.747		mg/L		100	90 - 110

Lab Sample ID: LCSD 410-384443/4
Matrix: Water
Analysis Batch: 384443

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
Nitrogen, Nitrite	0.750	0.756		mg/L		101	90 - 110	0	20
Nitrogen, Nitrate	0.750	0.751		mg/L		100	90 - 110	0	20

Lab Sample ID: MB 410-384444/5
Matrix: Water
Analysis Batch: 384444

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5	U	1.5		mg/L			06/08/23 10:01	1

Lab Sample ID: LCS 410-384444/3
Matrix: Water
Analysis Batch: 384444

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.93		mg/L		98	90 - 110

Lab Sample ID: LCSD 410-384444/4
Matrix: Water
Analysis Batch: 384444

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
Chloride	3.00	2.93		mg/L		98	90 - 110	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 410-386406/1-A
Matrix: Water
Analysis Batch: 387066

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 386406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/14/23 08:40	06/15/23 11:21	1
Arsenic	0.050	U	0.050		mg/L		06/14/23 08:40	06/15/23 11:21	1
Barium	0.0050	U	0.0050		mg/L		06/14/23 08:40	06/15/23 11:21	1
Iron	0.20	U	0.20		mg/L		06/14/23 08:40	06/15/23 11:21	1
Magnesium	0.10	U	0.10		mg/L		06/14/23 08:40	06/15/23 11:21	1
Manganese	0.010	U	0.010		mg/L		06/14/23 08:40	06/15/23 11:21	1

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

Lab Sample ID: LCS 410-386406/2-A
Matrix: Water
Analysis Batch: 387066

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 386406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	5.11		mg/L		102	85 - 115
Arsenic	0.500	0.522		mg/L		104	85 - 115
Barium	0.500	0.505		mg/L		101	85 - 115
Iron	5.00	5.02		mg/L		100	85 - 115
Magnesium	5.00	5.02		mg/L		100	85 - 115
Manganese	0.500	0.516		mg/L		103	85 - 115

Method: 2540C - 2015 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-384981/1
Matrix: Water
Analysis Batch: 384981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30	U	30		mg/L			06/10/23 10:00	1

Lab Sample ID: LCS 410-384981/2
Matrix: Water
Analysis Batch: 384981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	204		mg/L		102	90 - 110

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-384718/1
Matrix: Water
Analysis Batch: 384718

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			06/09/23 10:36	1

Lab Sample ID: LCS 410-384718/2
Matrix: Water
Analysis Batch: 384718

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	145		mg/L		96	89 - 105

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-387596/2-A
Matrix: Water
Analysis Batch: 388823

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	1.0	U	1.0		mg/L		06/16/23 11:25	06/20/23 12:53	1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 410-387596/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 388823 — **Prep Batch: 387596**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	6.48	6.46		mg/L		100	90 - 110

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 410-384805/13 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	0.050	U	0.050		mg/L			06/09/23 07:36	1

Lab Sample ID: LCS 410-384805/14 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Nitrite	0.700	0.654		mg/L		93	90 - 110

Lab Sample ID: LCSD 410-384805/15 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 384805

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Nitrite	0.700	0.656		mg/L		94	90 - 110	0	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 410-386084/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 386490 — **Prep Batch: 386084**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	0.10	U	0.10		mg/L		06/13/23 15:03	06/14/23 10:28	1

Lab Sample ID: LCS 410-386084/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 386490 — **Prep Batch: 386084**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	1.39	1.45		mg/L		104	90 - 110

Method: 4500 NH3 C-2011 - Ammonia

Lab Sample ID: MB 410-385298/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 385373 — **Prep Batch: 385298**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-N	0.75	U	0.75		mg/L		06/12/23 07:15	06/12/23 08:47	1

Method: 4500 NH3 C-2011 - Ammonia (Continued)

Lab Sample ID: LCS 410-385298/2-A
Matrix: Water
Analysis Batch: 385373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia-N			10.0	9.61		mg/L		96	90 - 110		

Lab Sample ID: LCSD 410-385298/3-A
Matrix: Water
Analysis Batch: 385373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385298

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia-N			10.0	9.58		mg/L		96	90 - 110	0	10

Method: 5210 B-2016 - BOD, 5-Day

Lab Sample ID: SCB 410-386117/4
Matrix: Water
Analysis Batch: 386117

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

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.904		0.0000010		mg/L			06/08/23 10:33	1

Lab Sample ID: USB 410-386117/2
Matrix: Water
Analysis Batch: 386117

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.0000010	U	0.0000010		mg/L			06/08/23 10:33	1

Lab Sample ID: LCS 410-386117/48
Matrix: Water
Analysis Batch: 386117

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			199	221		mg/L		111	85 - 115		

GC/MS VOA

Analysis Batch: 385413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	624.1	
410-129736-2	INF-050223	Total/NA	Water	624.1	
410-129736-3	Trip blank	Total/NA	Water	624.1	
MB 410-385413/5	Method Blank	Total/NA	Water	624.1	
LCS 410-385413/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 386382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	625.1	
410-129736-2 - DL	INF-050223	Total/NA	Water	625.1	
410-129736-2	INF-050223	Total/NA	Water	625.1	
MB 410-386382/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-386382/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 386694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	625.1	386382
410-129736-2	INF-050223	Total/NA	Water	625.1	386382
MB 410-386382/1-A	Method Blank	Total/NA	Water	625.1	386382
LCS 410-386382/2-A	Lab Control Sample	Total/NA	Water	625.1	386382

Analysis Batch: 387279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-2 - DL	INF-050223	Total/NA	Water	625.1	386382

HPLC/IC

Analysis Batch: 384443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	EPA 300.0 R2.1	
410-129736-2	INF-050223	Total/NA	Water	EPA 300.0 R2.1	
MB 410-384443/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-384443/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-384443/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 384444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	EPA 300.0 R2.1	
410-129736-2	INF-050223	Total/NA	Water	EPA 300.0 R2.1	
MB 410-384444/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-384444/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-384444/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 386406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total Recoverable	Water	200.7 Rev 4.4	
410-129736-2	INF-050223	Total Recoverable	Water	200.7 Rev 4.4	
MB 410-386406/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	

Metals (Continued)

Prep Batch: 386406 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-386406/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	

Analysis Batch: 387066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total Recoverable	Water	200.7 Rev 4.4	386406
410-129736-2	INF-050223	Total Recoverable	Water	200.7 Rev 4.4	386406
MB 410-386406/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	386406
LCS 410-386406/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	386406

General Chemistry

Analysis Batch: 384718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	2540D-2015	
410-129736-2	INF-050223	Total/NA	Water	2540D-2015	
MB 410-384718/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-384718/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 384805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	353.2	
410-129736-2	INF-050223	Total/NA	Water	353.2	
MB 410-384805/13	Method Blank	Total/NA	Water	353.2	
LCS 410-384805/14	Lab Control Sample	Total/NA	Water	353.2	
LCSD 410-384805/15	Lab Control Sample Dup	Total/NA	Water	353.2	

Analysis Batch: 384981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	2540C - 2015	
410-129736-2	INF-050223	Total/NA	Water	2540C - 2015	
MB 410-384981/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 410-384981/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Prep Batch: 385298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	4500 NH3 B-2011	
410-129736-2	INF-050223	Total/NA	Water	4500 NH3 B-2011	
MB 410-385298/1-A	Method Blank	Total/NA	Water	4500 NH3 B-2011	
LCS 410-385298/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 B-2011	
LCSD 410-385298/3-A	Lab Control Sample Dup	Total/NA	Water	4500 NH3 B-2011	

Analysis Batch: 385373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	4500 NH3 C-2011	385298
410-129736-2	INF-050223	Total/NA	Water	4500 NH3 C-2011	385298

General Chemistry (Continued)

Analysis Batch: 385373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-385298/1-A	Method Blank	Total/NA	Water	4500 NH3 C-2011	385298
LCS 410-385298/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 C-2011	385298
LCSD 410-385298/3-A	Lab Control Sample Dup	Total/NA	Water	4500 NH3 C-2011	385298

Prep Batch: 386084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	365.1	
410-129736-2	INF-050223	Total/NA	Water	365.1	
MB 410-386084/2-A	Method Blank	Total/NA	Water	365.1	
LCS 410-386084/1-A	Lab Control Sample	Total/NA	Water	365.1	

Analysis Batch: 386117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	5210 B-2016	
410-129736-2	INF-050223	Total/NA	Water	5210 B-2016	
SCB 410-386117/4	Method Blank	Total/NA	Water	5210 B-2016	
USB 410-386117/2	Method Blank	Total/NA	Water	5210 B-2016	
LCS 410-386117/48	Lab Control Sample	Total/NA	Water	5210 B-2016	

Analysis Batch: 386490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	365.1	386084
410-129736-2	INF-050223	Total/NA	Water	365.1	386084
MB 410-386084/2-A	Method Blank	Total/NA	Water	365.1	386084
LCS 410-386084/1-A	Lab Control Sample	Total/NA	Water	365.1	386084

Prep Batch: 387596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	351.2	
410-129736-2	INF-050223	Total/NA	Water	351.2	
MB 410-387596/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-387596/1-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 388823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129736-1	EFF-050223	Total/NA	Water	351.2	387596
410-129736-2	INF-050223	Total/NA	Water	351.2	387596
MB 410-387596/2-A	Method Blank	Total/NA	Water	351.2	387596
LCS 410-387596/1-A	Lab Control Sample	Total/NA	Water	351.2	387596

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Client Sample ID: EFF-050223

Lab Sample ID: 410-129736-1

Date Collected: 06/07/23 08:45

Matrix: Water

Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	385413	UJML	ELLE	06/12/23 13:15
Total/NA	Prep	625.1			386382	QKX3	ELLE	06/14/23 08:20
Total/NA	Analysis	625.1		1	386694	SJ89	ELLE	06/15/23 09:33
Total/NA	Analysis	EPA 300.0 R2.1		5	384443	W7FX	ELLE	06/08/23 16:16
Total/NA	Analysis	EPA 300.0 R2.1		25	384444	L4QM	ELLE	06/08/23 16:28
Total Recoverable	Prep	200.7 Rev 4.4			386406	UAMX	ELLE	06/14/23 08:40
Total Recoverable	Analysis	200.7 Rev 4.4		1	387066	MT26	ELLE	06/15/23 11:43
Total/NA	Analysis	2540C - 2015		1	384981	UOCA	ELLE	06/10/23 10:00
Total/NA	Analysis	2540D-2015		1	384718	M98K	ELLE	06/09/23 10:36 - 06/11/23 00:05 [1]
Total/NA	Prep	351.2			387596	NLE3	ELLE	06/16/23 11:25 - 06/16/23 14:25 [1]
Total/NA	Analysis	351.2		1	388823	JCG7	ELLE	06/20/23 13:16
Total/NA	Analysis	353.2		1	384805	Q3HN	ELLE	06/09/23 07:38
Total/NA	Prep	365.1			386084	NLE3	ELLE	06/13/23 15:03 - 06/13/23 16:45 [1]
Total/NA	Analysis	365.1		1	386490	JCG7	ELLE	06/14/23 10:32
Total/NA	Prep	4500 NH3 B-2011			385298	UML5	ELLE	06/12/23 09:39
Total/NA	Analysis	4500 NH3 C-2011		1	385373	UML5	ELLE	06/12/23 10:00
Total/NA	Analysis	5210 B-2016		1	386117	DI9Q	ELLE	06/08/23 17:25

Client Sample ID: INF-050223

Lab Sample ID: 410-129736-2

Date Collected: 06/07/23 09:00

Matrix: Water

Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	385413	UJML	ELLE	06/12/23 13:38
Total/NA	Prep	625.1			386382	QKX3	ELLE	06/14/23 08:20
Total/NA	Analysis	625.1		1	386694	SJ89	ELLE	06/15/23 09:54
Total/NA	Prep	625.1	DL		386382	QKX3	ELLE	06/14/23 08:20
Total/NA	Analysis	625.1	DL	10	387279	SJ89	ELLE	06/16/23 00:12
Total/NA	Analysis	EPA 300.0 R2.1		5	384443	W7FX	ELLE	06/08/23 16:39
Total/NA	Analysis	EPA 300.0 R2.1		25	384444	L4QM	ELLE	06/08/23 16:51
Total Recoverable	Prep	200.7 Rev 4.4			386406	UAMX	ELLE	06/14/23 08:40
Total Recoverable	Analysis	200.7 Rev 4.4		1	387066	MT26	ELLE	06/15/23 11:46
Total/NA	Analysis	2540C - 2015		1	384981	UOCA	ELLE	06/10/23 10:00
Total/NA	Analysis	2540D-2015		1	384718	M98K	ELLE	06/09/23 10:36 - 06/11/23 00:05 [1]
Total/NA	Prep	351.2			387596	NLE3	ELLE	06/16/23 11:25 - 06/16/23 14:25 [1]
Total/NA	Analysis	351.2		1	388823	JCG7	ELLE	06/20/23 13:18
Total/NA	Analysis	353.2		1	384805	Q3HN	ELLE	06/09/23 07:38
Total/NA	Prep	365.1			386084	NLE3	ELLE	06/13/23 15:03 - 06/13/23 16:45 [1]
Total/NA	Analysis	365.1		1	386490	JCG7	ELLE	06/14/23 10:32
Total/NA	Prep	4500 NH3 B-2011			385298	UML5	ELLE	06/12/23 09:39
Total/NA	Analysis	4500 NH3 C-2011		1	385373	UML5	ELLE	06/12/23 10:00
Total/NA	Analysis	5210 B-2016		1	386117	DI9Q	ELLE	06/08/23 17:25

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Client Sample ID: Trip blank

Date Collected: 06/07/23 09:00
Date Received: 06/08/23 10:10

Lab Sample ID: 410-129736-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	385413	UJML	ELLE	06/12/23 14:01

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

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	2-Butanone

Method Summary

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.7 Rev 4.4	Metals (ICP)	EPA	ELLE
2540C - 2015	Solids, Total Dissolved (TDS)	SM	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
353.2	Nitrogen, Nitrite	EPA	ELLE
365.1	Phosphorus, Total	EPA	ELLE
4500 NH3 C-2011	Ammonia	SM	ELLE
5210 B-2016	BOD, 5-Day	SM	ELLE
200.7 Rev 4.4	Preparation, Total Recoverable Metals	EPA	ELLE
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
365.1	Sample Digestion for Total Phosphorus	MCAWW	ELLE
4500 NH3 B-2011	Ammonia, Distillation	SM	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater ", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Project/Site: Annual SPDES

Job ID: 410-129736-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-129736-1	EFF-050223	Water	06/07/23 08:45	06/08/23 10:10
410-129736-2	INF-050223	Water	06/07/23 09:00	06/08/23 10:10
410-129736-3	Trip blank	Water	06/07/23 09:00	06/08/23 10:10

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program La

BP/ARC Project Name: Wellsville OU2 - Annual SPDES
BP/ARC Facility No: USEPA ID: NY-D98053215

410-129736 Chain of Custody

Standard ____ Rush TAT: Yes ____ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 89884	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ____

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7668
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: SVOCs EPA 625	TSS, TDS, BOD	EPA 200.7 - Al,As,Ba,Fe,Mn,Mg	VOCs EPA 624	TKN, Total Phosphorous	Chloride	Nitrite Nitrogen	Ammonia Nitrogen			Report Type & QC Level / Comments
																									Standard X Full Data Package Comments Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.
	EFF-050223	6/7/2023	845		X			15	3		1	3													pH= 7.15
	INF-050223	6/7/2023	900		X			15	3		1	3													pH= 6.82
	Trip blank	6/7/2023	900		X			2				2													
	Temp blank	6/7/2023			X			1																	
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																								
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																								

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	6/7/23	1400			
Shipment Method: FedEx Ship Date: 6/7/2023	on/site					
Shipment Tracking No: 772371655517, 772371655127				[illegible]	6/8/23	10:10

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 1.9/1.9 F/C 1.0/1.0 | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

6/22/2023

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-129736-1

Login Number: 129736

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Analysis listed on COC; individual samples not designated for specific analyses.
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 385413 | Batch Start Date: 06/12/23 10:46 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-385413/5		624.1		5 mL	5 mL				2692
410-129736-A-1	EFF-050223	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-129736-A-2	INF-050223	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-129736-A-3	Trip blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-385413/1003		624.1		5 mL	5 mL				2692

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00008	MSV_LCS_2CEVE 00119	MSV_LCS_ACR 00016	MSV_LCS_Gases 00146	MSV_LCS_VOC#1 00113	
MB 410-385413/5		624.1		5 uL					
410-129736-A-1	EFF-050223	624.1	T	5 uL					
410-129736-A-2	INF-050223	624.1	T	5 uL					
410-129736-A-3	Trip blank	624.1	T	5 uL					
LCS 410-385413/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 386382 | Batch Start Date: 06/14/23 08:20 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 06/14/23 14:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-386382/1		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCS 410-386382/2		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
410-129736-K-1	EFF-050223	625.1, 625.1	T	414.67 g	166.90 g	247.8 mL	1.0 mL	n/a SU	>11 SU
410-129736-K-2	INF-050223	625.1, 625.1	T	410.62 g	166.59 g	244 mL	1.0 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00014	OP_MINLCS1_MS 00170	AnalysisComment	
MB 410-386382/1		625.1, 625.1		<2 SU	n/a SU	0.25 mL		DI H2O	
LCS 410-386382/2		625.1, 625.1		<2 SU	n/a SU	0.25 mL	1 mL	DI H2O	
410-129736-K-1	EFF-050223	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Pale Yellow Tint	
410-129736-K-2	INF-050223	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Orange Tint, Orange Sediment	

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, KMK81424
Analyst ID - Spike Analyst	PDH91662
Analyst ID - Spike Witness Analyst	PDH91662
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90
Extraction 1 Start Time	06/14/2023 11:54
Extraction 1 End Time	06/14/2023 13:03
Na2SO4 ID	23163A
Analyst ID - Concentration	PDH91662, KMK81424
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 386382 | Batch Start Date: 06/14/23 08:20 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 06/14/23 14:28

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 384443 | Batch Start Date: 06/08/23 09:15 | Batch Analyst: Morrison, Benjamin

Batch Method: EPA 300.0 R2.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC_IC_QC2 00824			
LCS 410-384443/3		EPA 300.0 R2.1		1 mL	1 mL	7.5 mL			
LCSD 410-384443/4		EPA 300.0 R2.1		1 mL	1 mL	7.5 mL			
MB 410-384443/5		EPA 300.0 R2.1		1 mL	1 mL				
410-129736-D-1	EFF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				
410-129736-D-1	EFF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				
410-129736-D-2	INF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				
410-129736-D-2	INF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				

Batch Notes	
Eluent 1 ID	WC_IC_Wrknel_00164
Pipette Tip Lot ID	22250721
Vial Lot Number	427610

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 384444 | Batch Start Date: 06/08/23 09:15 | Batch Analyst: Schoener, Jacquelyn

Batch Method: EPA 300.0 R2.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC_IC_QC2 00824			
LCS 410-384444/3		EPA 300.0 R2.1		1 mL	1 mL	7.5 mL			
LCSD 410-384444/4		EPA 300.0 R2.1		1 mL	1 mL	7.5 mL			
MB 410-384444/5		EPA 300.0 R2.1		1 mL	1 mL				
410-129736-D-1	EFF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				
410-129736-D-1	EFF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				
410-129736-D-2	INF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				
410-129736-D-2	INF-050223	EPA 300.0 R2.1	T	1 mL	1 mL				

Batch Notes	
Pipette/Syringe/Dispenser ID	IC
Eluent 1 ID	WC_IC_WRKNEL_00164
Pipette Tip Lot ID	22250721
Vial Lot Number	427610

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 386406 | Batch Start Date: 06/14/23 21:00 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.7 Rev 4.4 | Batch End Date: 06/15/23 01:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00028	MP_1:1HNO3 00042	MT_LCS-SPK-A 00026	MT_LCS-SPK-B 00025
MB 410-386406/1		200.7 Rev 4.4, 200.7 Rev 4.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-386406/2		200.7 Rev 4.4, 200.7 Rev 4.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-129736-R-1	EFF-050223	200.7 Rev 4.4, 200.7 Rev 4.4	R	50 mL	50 mL	0.5 mL	1 mL		
410-129736-R-2	INF-050223	200.7 Rev 4.4, 200.7 Rev 4.4	R	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	10
Digestion Tube/Cup ID	2211204
Thermometer ID	3811
Pipette ID	g20054g
Analyst ID - Spike Witness Analyst	0862
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 387596 | Batch Start Date: 06/16/23 11:25 | Batch Analyst: Schmertz, Thomas

Batch Method: 351.2 | Batch End Date: 06/16/23 14:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC_PR_NUTRLCS 00063			
LCS 410-387596/1		351.2, 351.2		25 mL	25 mL	25 mL			
MB 410-387596/2		351.2, 351.2		25 mL	25 mL				
410-129736-P-1	EFF-050223	351.2, 351.2	T	25 mL	25 mL				
410-129736-P-2	INF-050223	351.2, 351.2	T	25 mL	25 mL				

Batch Notes	
Block Digestor ID	5146U00778
Digestion Solution ID	3981173
Block Digestion Start time	06/16/2023 11:25
Oven, Bath or Block Temperature 1	160 Degrees C
Block Digestion Temperature Start Date	06/16/2023 11:25
Block Digestion End time	06/16/2023 14:25
Oven, Bath or Block Temperature 2	380 Degrees C
Bl;ock Digestion Temperature End Date	06/16/2023 14:25
Blank Matrix ID	DI Water

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 384805 | Batch Start Date: 06/09/23 07:15 | Batch Analyst: Havicon, Matthew

Batch Method: 353.2 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ClResPres	InitpH5-9	WC_FL_LCS_NO3 00412			
LCS 410-384805/14		353.2				# mL			
LCSD 410-384805/15		353.2				# mL			
410-129736-E-1	EFF-050223	353.2	T	n	y				
410-129736-E-2	INF-050223	353.2	T	n	y				

Batch Notes	
Color Reagent ID	4358588
Pipette/Syringe/Dispenser ID	flow
Pipette Tip Lot ID	k199109p

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 386084 | Batch Start Date: 06/13/23 15:03 | Batch Analyst: Schmertz, Thomas

Batch Method: 365.1 | Batch End Date: 06/13/23 16:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WC_PR_NUTRLCS 00063			
LCS 410-386084/1		365.1, 365.1		25 mL	25 mL	25 mL			
MB 410-386084/2		365.1, 365.1		25 mL	25 mL				
410-129736-Q-1	EFF-050223	365.1, 365.1	T	25 mL	25 mL				
410-129736-Q-2	INF-050223	365.1, 365.1	T	25 mL	25 mL				

Batch Notes	
Blank Matrix ID	DI Water
Temperature - Corrected - Start	121 Celsius
Digestion Start Time	06/13/2023 15:03
Digestion End Time	06/13/2023 16:45
Sulfuric Acid Reagent ID Number	3667696
Ammonium Persulfate ID	20G2056249
Pipette/Syringe/Dispenser ID	Class A
Autoclave ID	9442
Autoclave Pressure	15
Container Lot ID	2696

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 386490 | Batch Start Date: 06/14/23 09:58 | Batch Analyst: Hess, Elena

Batch Method: 365.1 | Batch End Date: 06/14/23 10:52

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg					
LCS 410-386084/1-A		365.1		OK					
MB 410-386084/2-A		365.1		OK					
410-129736-Q-1-A	EFF-050223	365.1	T	OK					
410-129736-Q-2-A	INF-050223	365.1	T	OK					

Batch Notes	
Color Reagent ID	4365788
Perform Calculation (0=No, 1=Yes)	1
Ascorbic Acid ID	4410733

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 385298 | Batch Start Date: 06/12/23 07:15 | Batch Analyst: Lalli, Michelle L

Batch Method: 4500 NH3 B-2011 | Batch End Date: 06/12/23 09:39

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Final pH	AdjustedpH	WC_500mg/LNH3 00018	
MB 410-385298/1		4500 NH3 B-2011, 4500 NH3 C-2011		500 mL	500 mL	9.5 SU	9.5 SU		
LCS 410-385298/2		4500 NH3 B-2011, 4500 NH3 C-2011		500 mL	500 mL	9.5 SU	9.5 SU	10 mL	
LCSD 410-385298/3		4500 NH3 B-2011, 4500 NH3 C-2011		500 mL	500 mL	9.5 SU	9.5 SU	10 mL	
410-129736-O-1	EFF-050223	4500 NH3 B-2011, 4500 NH3 C-2011	T	500 mL	500 mL	9.5 SU	9.5 SU		
410-129736-O-2	INF-050223	4500 NH3 B-2011, 4500 NH3 C-2011	T	500 mL	500 mL	9.5 SU	9.5 SU		

Batch Notes	
NaOH Lot #	4309036
Buffer Reagent ID	4276261
Distilliation Unit ID	5030
Boric Acid ID	4365020
Anti Foam ID	MKCS7472
Boiling Chips ID	12-30-22 #4

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 385373 | Batch Start Date: 06/12/23 08:47 | Batch Analyst: Lalli, Michelle L

Batch Method: 4500 NH3 C-2011 | Batch End Date: 06/12/23 09:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TitrantUsed	TitrantVolume1		
MB 410-385298/1-A		4500 NH3 C-2011		500 mL	500 mL	1	0.00 mL		
LCS 410-385298/2-A		4500 NH3 C-2011		500 mL	500 mL	1	15.75 mL		
LCSD 410-385298/3-A		4500 NH3 C-2011		500 mL	500 mL	1	15.70 mL		
410-129736-O-1-A	EFF-050223	4500 NH3 C-2011	T	500 mL	500 mL	1	0.60 mL		
410-129736-O-2-A	INF-050223	4500 NH3 C-2011	T	500 mL	500 mL		0.85 mL		

Batch Notes	
Nominal Amount Used	500 mL
Normality of First Titrant	0.0218 N
Normality of SecondTtitrant	0.1102 N
First Titrant ID	4297852
First Titrant Standardization	365666/20
Second Titrant ID	4297913
Second Titrant Standardization	365666/20

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 384981 | Batch Start Date: 06/09/23 14:32 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540C - 2015 | Batch End Date: 06/11/23 02:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	Conductivity	CrucibleID	TareWeight	InitialAmount	Weight1	Residue
MB 410-384981/1		2540C - 2015			B0979414	3.9158 g	200 mL	3.9159 g	0.0001 g
LCS 410-384981/2		2540C - 2015			B0979417	4.1451 g	100 mL	4.1655 g	0.0204 g
410-129736-G-1	EFF-050223	2540C - 2015	T	432 umhos/cm	B0983314	3.8524 g	200 mL	3.8941 g	0.0417 g
410-129736-G-2	INF-050223	2540C - 2015	T	366 umhos/cm	B0983313	4.0190 g	200 mL	4.0512 g	0.0322 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	WC_TDS_LCS 00185			
MB 410-384981/1		2540C - 2015		200 mL	OK				
LCS 410-384981/2		2540C - 2015		200 mL	OK	100 mL			
410-129736-G-1	EFF-050223	2540C - 2015	T	200 mL	OK				
410-129736-G-2	INF-050223	2540C - 2015	T	200 mL	OK				

Batch Notes	
Perform Calculation (0=No, 1=Yes)	11
Nominal Amount Used	200 mL
Conductivity Meter ID	1197672
Filter ID	17810552
Balance ID	27505
Vessel Lot ID	202311001-3129- LA
Oven ID	16860
Thermometer ID	1036
Weight(WT1) Start Date/Time	06/10/2023 10:00
Uncorrected Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Start Temp	180 Celsius
Weight(WT1) Date/Time Out	06/11/2023 02:40
Uncorrected Weight(WT1) Temp Out	180 Celsius
Weight(WT1) Temp Out	180 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 384981 Batch Start Date: 06/09/23 14:32 Batch Analyst: Arosemena, Olivia C

Batch Method: 2540C - 2015 Batch End Date: 06/11/23 02:40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 384718 | Batch Start Date: 06/09/23 10:36 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 06/11/23 00:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-384718/1		2540D-2015		hXK0F	0.1160 g	1000 mL	0.1161 g	0.0001 g	1000 mL
LCS 410-384718/2		2540D-2015		hXK0G	0.1156 g	1000 mL	0.2602 g	0.1446 g	1000 mL
410-129736-N-1	EFF-050223	2540D-2015	T	hXJKQ	0.1159 g	1000 mL	0.1166 g	0.0007 g	1000 mL
410-129736-N-2	INF-050223	2540D-2015	T	hXJKR	0.1139 g	500 mL	0.1382 g	0.0243 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00043	AnalysisComment		
MB 410-384718/1		2540D-2015		0.1161 g	0.116 g				
LCS 410-384718/2		2540D-2015		0.2602 g	0.1156 g	0.1505 g	vial 20 0.1505		
410-129736-N-1	EFF-050223	2540D-2015	T	0.1166 g	0.1159 g				
410-129736-N-2	INF-050223	2540D-2015	T	0.1382 g	0.1139 g		100+100+100+100 +100 slow,cloudy		

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600040-3109-r1
Balance ID	27505
Oven ID	7492
Thermometer ID	1052
Date/Time - In	06/09/2023 10:36
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	06/11/2023 00:05
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 386117 | Batch Start Date: 06/08/23 09:50 | Batch Analyst: Bolf, Jeremy

Batch Method: 5210 B-2016 | Batch End Date: 06/13/23 09:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	InstResult	IsUSB	IsSCB	CalcMsg
USB 410-386117/2		5210 B-2016		300 mL	300 mL	-0.086666666666 666 mg/L	Y		OK
SCB 410-386117/4		5210 B-2016		300 mL	300 mL	0.226033333 mg/L		Y	OK
LCS 410-386117/48		5210 B-2016		300 mL	300 mL	221.3 mg/L			OK
410-129736-M-2	INF-050223	5210 B-2016	T	200 mL	300 mL	5.203 mg/L			OK
410-129736-M-1	EFF-050223	5210 B-2016	T	200 mL	300 mL	2.706 mg/L			OK

Lab Sample ID	Client Sample ID	Method Chain	Basis	WC_GGA_LCSSPK 00743	AnalysisComment				
USB 410-386117/2		5210 B-2016			Sample incubation time taken as sample Start Time by PCBod2 preprocessor.				
SCB 410-386117/4		5210 B-2016			Sample incubation time taken as sample Start Time by PCBod2 preprocessor.				
LCS 410-386117/48		5210 B-2016		6 mL	Sample incubation time taken as sample Start Time by PCBod2 preprocessor.				
410-129736-M-2	INF-050223	5210 B-2016	T		Sample incubation time taken as sample Start Time by PCBod2 preprocessor.				
410-129736-M-1	EFF-050223	5210 B-2016	T		Sample incubation time taken as sample Start Time by PCBod2 preprocessor.				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129736-1

SDG No.:

Batch Number: 386117 Batch Start Date: 06/08/23 09:50 Batch Analyst: Bolf, Jeremy

Batch Method: 5210 B-2016 Batch End Date: 06/13/23 09:02

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Seed Amount - BOD	4 mL
Nominal Seed Amount - CBOD	4 mL
Dilution Water ID	387657/10
Seed ID	387657/10
Incubator ID	29I
pH Meter ID	10537
Analyst ID 1	AMM91440
Analyst ID 2	AMM91440 & JLB25420

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

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JOB DESCRIPTION

BP Wellsville, NY

JOB NUMBER

410-133442-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

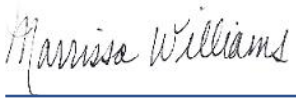
myEOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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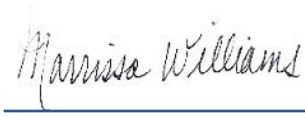

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Definitions/Glossary

Client: On-Site Health and Safety
Job ID: 410-133442-1
Project/Site: BP Wellsville, NY

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

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: 410-133442-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-133442-1

Receipt
The samples were received on 7/6/2023 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 time was 1.6°C

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

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

Client Sample ID: EFF-070523 — Lab Sample ID: 410-133442-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	660		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	5100	^2	20		ug/L	10		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-070523 — Lab Sample ID: 410-133442-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.5		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	2.3		1.0		ug/L	1		624.1	Total/NA
Toluene	2.4		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	3.3		1.0		ug/L	1		624.1	Total/NA
Aniline - DL	100		51		ug/L	10		625.1	Total/NA
Nitrobenzene - DL	260		51		ug/L	10		625.1	Total/NA
Arsenic	77		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	28000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4400		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	57		7.5		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-133442-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-070523

Lab Sample ID: 410-133442-1

Date Collected: 07/05/23 10:40

Matrix: Water

Date Received: 07/06/23 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			07/11/23 16:18	1
Benzene	1.0	U	1.0		ug/L			07/11/23 16:18	1
Chloroethane	1.0	U	1.0		ug/L			07/11/23 16:18	1
Ethylbenzene	1.0	U	1.0		ug/L			07/11/23 16:18	1
Toluene	1.0	U	1.0		ug/L			07/11/23 16:18	1
Vinyl chloride	1.0	U	1.0		ug/L			07/11/23 16:18	1
Xylenes, Total	1.0	U	1.0		ug/L			07/11/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*		*07/11/23 16:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*07/11/23 16:18*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*07/11/23 16:18*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*07/11/23 16:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:09	1
Acenaphthene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:09	1
Aniline	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:09	1
Fluorene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:09	1
Naphthalene	2.0	U	2.0		ug/L		07/11/23 07:43	07/11/23 22:09	1
Nitrobenzene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:09	1
Phenanthrene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*56*		*10 - 150*	*07/11/23 07:43*	*07/11/23 22:09*	*1*
2-Fluorobiphenyl (Surr)	*63*		*32 - 115*	*07/11/23 07:43*	*07/11/23 22:09*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 83*	*07/11/23 07:43*	*07/11/23 22:09*	*1*
Nitrobenzene-d5 (Surr)	*89*		*41 - 121*	*07/11/23 07:43*	*07/11/23 22:09*	*1*
p-Terphenyl-d14 (Surr)	*53*		*28 - 134*	*07/11/23 07:43*	*07/11/23 22:09*	*1*
Phenol-d5 (Surr)	*22*		*10 - 63*	*07/11/23 07:43*	*07/11/23 22:09*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.2**		2.0		ug/L		07/10/23 11:01	07/12/23 08:51	1
Iron	**660**		50		ug/L		07/10/23 11:01	07/12/23 08:51	1
Manganese	**5100**	**^2**	20		ug/L		07/10/23 11:01	07/13/23 07:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			07/10/23 09:19	1

Client Sample ID: INF-070523

Lab Sample ID: 410-133442-2

Date Collected: 07/05/23 10:55

Matrix: Water

Date Received: 07/06/23 10:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			07/11/23 16:41	1
Benzene	**7.5**		1.0		ug/L			07/11/23 16:41	1

Client Sample ID: INF-070523
Date Collected: 07/05/23 10:55
Date Received: 07/06/23 10:38

Lab Sample ID: 410-133442-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			07/11/23 16:41	1
Ethylbenzene	**2.3**		1.0		ug/L			07/11/23 16:41	1
Toluene	**2.4**		1.0		ug/L			07/11/23 16:41	1
Vinyl chloride	1.0	U	1.0		ug/L			07/11/23 16:41	1
Xylenes, Total	**3.3**		1.0		ug/L			07/11/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*07/11/23 16:41*	*1*
4-Bromofluorobenzene (Surr)	*105*		*60 - 140*		*07/11/23 16:41*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*		*07/11/23 16:41*	*1*
Toluene-d8 (Surr)	*103*		*60 - 140*		*07/11/23 16:41*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:30	1
Acenaphthene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:30	1
Fluorene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:30	1
Naphthalene	2.0	U	2.0		ug/L		07/11/23 07:43	07/11/23 22:30	1
Phenanthrene	5.1	U	5.1		ug/L		07/11/23 07:43	07/11/23 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*13*		*10 - 150*	*07/11/23 07:43*	*07/11/23 22:30*	*1*
2-Fluorobiphenyl (Surr)	*64*		*32 - 115*	*07/11/23 07:43*	*07/11/23 22:30*	*1*
2-Fluorophenol (Surr)	*2*	*S1-*	*10 - 83*	*07/11/23 07:43*	*07/11/23 22:30*	*1*
Nitrobenzene-d5 (Surr)	*84*		*41 - 121*	*07/11/23 07:43*	*07/11/23 22:30*	*1*
p-Terphenyl-d14 (Surr)	*71*		*28 - 134*	*07/11/23 07:43*	*07/11/23 22:30*	*1*
Phenol-d5 (Surr)	*3*	*S1-*	*10 - 63*	*07/11/23 07:43*	*07/11/23 22:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**100**		51		ug/L		07/11/23 07:43	07/13/23 05:07	10
Nitrobenzene	**260**		51		ug/L		07/11/23 07:43	07/13/23 05:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*7*	*S1-*	*10 - 150*	*07/11/23 07:43*	*07/13/23 05:07*	*10*
2-Fluorobiphenyl (Surr)	*59*		*32 - 115*	*07/11/23 07:43*	*07/13/23 05:07*	*10*
2-Fluorophenol (Surr)	*2*	*S1-*	*10 - 83*	*07/11/23 07:43*	*07/13/23 05:07*	*10*
Nitrobenzene-d5 (Surr)	*80*		*41 - 121*	*07/11/23 07:43*	*07/13/23 05:07*	*10*
p-Terphenyl-d14 (Surr)	*65*		*28 - 134*	*07/11/23 07:43*	*07/13/23 05:07*	*10*
Phenol-d5 (Surr)	*3*	*S1-*	*10 - 63*	*07/11/23 07:43*	*07/13/23 05:07*	*10*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**77**		2.0		ug/L		07/10/23 11:01	07/12/23 08:53	1
Iron	**28000**		50		ug/L		07/10/23 11:01	07/12/23 08:53	1
Manganese	**4400**		2.0		ug/L		07/10/23 11:01	07/12/23 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**57**		7.5		mg/L			07/10/23 09:19	1

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

Client Sample ID: Trip Blank
Date Collected: 07/05/23 10:55
Date Received: 07/06/23 10:38

Lab Sample ID: 410-133442-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			07/11/23 17:03	1
Benzene	1.0	U	1.0		ug/L			07/11/23 17:03	1
Chloroethane	1.0	U	1.0		ug/L			07/11/23 17:03	1
Ethylbenzene	1.0	U	1.0		ug/L			07/11/23 17:03	1
Toluene	1.0	U	1.0		ug/L			07/11/23 17:03	1
Vinyl chloride	1.0	U	1.0		ug/L			07/11/23 17:03	1
Xylenes, Total	1.0	U	1.0		ug/L			07/11/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*07/11/23 17:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*07/11/23 17:03*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*		*07/11/23 17:03*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*07/11/23 17:03*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
410-133442-1	EFF-070523	110	96	108	96
410-133442-2	INF-070523	102	105	98	103
410-133442-3	Trip Blank	108	97	106	96
LCS 410-395506/1003	Lab Control Sample	100	100	97	103
MB 410-395506/5	Method Blank	108	98	104	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)
410-133442-1	EFF-070523	56	63	35	89	53	22
410-133442-2	INF-070523	13	64	2 S1-	84	71	3 S1-
410-133442-2 - DL	INF-070523	7 S1-	59	2 S1-	80	65	3 S1-
LCS 410-395463/2-A	Lab Control Sample	73	52	50	74	71	37
MB 410-395463/1-A	Method Blank	83	66	61	96	90	43

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-395506/5
Matrix: Water
Analysis Batch: 395506

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			07/11/23 09:58	1
Benzene	1.0	U	1.0		ug/L			07/11/23 09:58	1
Chloroethane	1.0	U	1.0		ug/L			07/11/23 09:58	1
Ethylbenzene	1.0	U	1.0		ug/L			07/11/23 09:58	1
Toluene	1.0	U	1.0		ug/L			07/11/23 09:58	1
Vinyl chloride	1.0	U	1.0		ug/L			07/11/23 09:58	1
Xylenes, Total	1.0	U	1.0		ug/L			07/11/23 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*07/11/23 09:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*07/11/23 09:58*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*07/11/23 09:58*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*07/11/23 09:58*	*1*

Lab Sample ID: LCS 410-395506/1003
Matrix: Water
Analysis Batch: 395506

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	17.5		ug/L		87	70 - 130
Benzene	20.0	19.1		ug/L		95	65 - 135
Chloroethane	20.0	19.5		ug/L		97	40 - 160
Ethylbenzene	20.0	19.7		ug/L		99	60 - 140
Toluene	20.0	19.3		ug/L		96	70 - 130
Vinyl chloride	20.0	18.0		ug/L		90	10 - 195
Xylenes, Total	60.0	61.1		ug/L		102	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*
Dibromofluoromethane (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*103*		*60 - 140*

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

Lab Sample ID: MB 410-395463/1-A
Matrix: Water
Analysis Batch: 395700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		07/11/23 07:43	07/11/23 17:36	1
Acenaphthene	5.0	U	5.0		ug/L		07/11/23 07:43	07/11/23 17:36	1
Aniline	5.0	U	5.0		ug/L		07/11/23 07:43	07/11/23 17:36	1
Fluorene	5.0	U	5.0		ug/L		07/11/23 07:43	07/11/23 17:36	1
Naphthalene	2.0	U	2.0		ug/L		07/11/23 07:43	07/11/23 17:36	1
Nitrobenzene	5.0	U	5.0		ug/L		07/11/23 07:43	07/11/23 17:36	1
Phenanthrene	5.0	U	5.0		ug/L		07/11/23 07:43	07/11/23 17:36	1

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

Lab Sample ID: MB 410-395463/1-A
Matrix: Water
Analysis Batch: 395700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395463

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*07/11/23 07:43*	*07/11/23 17:36*	*1*
2-Fluorobiphenyl (Surr)	*66*		*32 - 115*	*07/11/23 07:43*	*07/11/23 17:36*	*1*
2-Fluorophenol (Surr)	*61*		*10 - 83*	*07/11/23 07:43*	*07/11/23 17:36*	*1*
Nitrobenzene-d5 (Surr)	*96*		*41 - 121*	*07/11/23 07:43*	*07/11/23 17:36*	*1*
p-Terphenyl-d14 (Surr)	*90*		*28 - 134*	*07/11/23 07:43*	*07/11/23 17:36*	*1*
Phenol-d5 (Surr)	*43*		*10 - 63*	*07/11/23 07:43*	*07/11/23 17:36*	*1*

Lab Sample ID: LCS 410-395463/2-A
Matrix: Water
Analysis Batch: 395700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	30.5		ug/L		61	50 - 114
Acenaphthene	50.0	32.0		ug/L		64	47 - 145
Aniline	50.0	27.9		ug/L		56	21 - 106
Fluorene	50.0	36.3		ug/L		73	59 - 121
Naphthalene	50.0	32.5		ug/L		65	21 - 133
Nitrobenzene	50.0	41.7		ug/L		83	35 - 180
Phenanthrene	50.0	37.5		ug/L		75	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*73*		*10 - 150*
2-Fluorobiphenyl (Surr)	*52*		*32 - 115*
2-Fluorophenol (Surr)	*50*		*10 - 83*
Nitrobenzene-d5 (Surr)	*74*		*41 - 121*
p-Terphenyl-d14 (Surr)	*71*		*28 - 134*
Phenol-d5 (Surr)	*37*		*10 - 63*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-395141/1-A
Matrix: Water
Analysis Batch: 395933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		07/10/23 11:01	07/12/23 08:27	1
Iron	50	U	50		ug/L		07/10/23 11:01	07/12/23 08:27	1
Manganese	2.0	U	2.0		ug/L		07/10/23 11:01	07/12/23 08:27	1

Lab Sample ID: LCS 410-395141/2-A
Matrix: Water
Analysis Batch: 395933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	509		ug/L		102	85 - 115
Iron	5000	4880		ug/L		98	85 - 115
Manganese	500	496		ug/L		99	85 - 115

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-394957/1
Matrix: Water
Analysis Batch: 394957

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			07/10/23 09:19	1

Lab Sample ID: LCS 410-394957/2
Matrix: Water
Analysis Batch: 394957

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	147		mg/L		98	89 - 105

Lab Sample ID: 410-133442-2 DU
Matrix: Water
Analysis Batch: 394957

Client Sample ID: INF-070523
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	57		47.5	F3	mg/L		18	5

GC/MS VOA

Analysis Batch: 395506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-1	EFF-070523	Total/NA	Water	624.1	
410-133442-2	INF-070523	Total/NA	Water	624.1	
410-133442-3	Trip Blank	Total/NA	Water	624.1	
MB 410-395506/5	Method Blank	Total/NA	Water	624.1	
LCS 410-395506/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 395463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-1	EFF-070523	Total/NA	Water	625.1	
410-133442-2 - DL	INF-070523	Total/NA	Water	625.1	
410-133442-2	INF-070523	Total/NA	Water	625.1	
MB 410-395463/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-395463/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 395700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-1	EFF-070523	Total/NA	Water	625.1	395463
410-133442-2	INF-070523	Total/NA	Water	625.1	395463
MB 410-395463/1-A	Method Blank	Total/NA	Water	625.1	395463
LCS 410-395463/2-A	Lab Control Sample	Total/NA	Water	625.1	395463

Analysis Batch: 396085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-2 - DL	INF-070523	Total/NA	Water	625.1	395463

Metals

Prep Batch: 395141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-1	EFF-070523	Total/NA	Water	200.8 Rev 5.4	
410-133442-2	INF-070523	Total/NA	Water	200.8 Rev 5.4	
MB 410-395141/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-395141/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 395933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-1	EFF-070523	Total/NA	Water	200.8 Rev 5.4	395141
410-133442-2	INF-070523	Total/NA	Water	200.8 Rev 5.4	395141
MB 410-395141/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	395141
LCS 410-395141/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	395141

Analysis Batch: 396444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-1	EFF-070523	Total/NA	Water	200.8 Rev 5.4	395141

General Chemistry

Analysis Batch: 394957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-1	EFF-070523	Total/NA	Water	2540D-2015	

General Chemistry (Continued)

Analysis Batch: 394957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-133442-2	INF-070523	Total/NA	Water	2540D-2015	
MB 410-394957/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-394957/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-133442-2 DU	INF-070523	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

Client Sample ID: EFF-070523

Lab Sample ID: 410-133442-1

Date Collected: 07/05/23 10:40

Matrix: Water

Date Received: 07/06/23 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	395506	UJML	ELLE	07/11/23 16:18
Total/NA	Prep	625.1			395463	QKX3	ELLE	07/11/23 07:43
Total/NA	Analysis	625.1		1	395700	SJ89	ELLE	07/11/23 22:09
Total/NA	Prep	200.8 Rev 5.4			395141	UAMX	ELLE	07/10/23 11:01
Total/NA	Analysis	200.8 Rev 5.4		1	395933	F7JF	ELLE	07/12/23 08:51
Total/NA	Prep	200.8 Rev 5.4			395141	UAMX	ELLE	07/10/23 11:01
Total/NA	Analysis	200.8 Rev 5.4		10	396444	F7JF	ELLE	07/13/23 07:48
Total/NA	Analysis	2540D-2015		1	394957	M98K	ELLE	07/10/23 09:19 - 07/11/23 08:30 [1]

Client Sample ID: INF-070523

Lab Sample ID: 410-133442-2

Date Collected: 07/05/23 10:55

Matrix: Water

Date Received: 07/06/23 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	395506	UJML	ELLE	07/11/23 16:41
Total/NA	Prep	625.1			395463	QKX3	ELLE	07/11/23 07:43
Total/NA	Analysis	625.1		1	395700	SJ89	ELLE	07/11/23 22:30
Total/NA	Prep	625.1	DL		395463	QKX3	ELLE	07/11/23 07:43
Total/NA	Analysis	625.1	DL	10	396085	SJ89	ELLE	07/13/23 05:07
Total/NA	Prep	200.8 Rev 5.4			395141	UAMX	ELLE	07/10/23 11:01
Total/NA	Analysis	200.8 Rev 5.4		1	395933	F7JF	ELLE	07/12/23 08:53
Total/NA	Analysis	2540D-2015		1	394957	M98K	ELLE	07/10/23 09:19 - 07/11/23 08:30 [1]

Client Sample ID: Trip Blank

Lab Sample ID: 410-133442-3

Date Collected: 07/05/23 10:55

Matrix: Water

Date Received: 07/06/23 10:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	395506	UJML	ELLE	07/11/23 17:03

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-133442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-133442-1	EFF-070523	Water	07/05/23 10:40	07/06/23 10:38
410-133442-2	INF-070523	Water	07/05/23 10:55	07/06/23 10:38
410-133442-3	Trip Blank	Water	07/05/23 10:55	07/06/23 10:38

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program La

BP/ARC Project Name: Wellsville OU2 - Monthly SPDES
BP/ARC Facility No: USEPA ID: NY-D98053215

410-133442 Chain of Custody

Standard Rush TAT: Yes ____ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72170	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ____

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS						Report Type & QC Level: Comments
	EFF-070523	7/5/2023	1040		X			7	3		1	3			3	2	1	1							pH= 7.24
	INF-070523	7/5/2023	1055		X			7	3		1	3			3	2	1	1							pH= 6.75
	Trip blank	7/5/2023	1055		X			2				2													
	Temp blank	7/5/2023			X			1																	
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																								
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																								

Report Type & QC Level: Standard X; Full Data Package

Comments: Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	7/5/23	1200			
Shipment Method: FedEx Ship Date: 7/5/2023	on-site					
Shipment Tracking No: 817410103365					7/6/23	1038

Special Instructions: pH value in comment area, measured in field

raw: 1.6

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: COR: 1.0 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

7/17/2023

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-133442-1

Login Number: 133442

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-133442-1

SDG No.:

Batch Number: 395506 | Batch Start Date: 07/11/23 08:38 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-395506/5		624.1		5 mL	5 mL				2705
410-133442-E-1	EFF-070523	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-133442-E-2	INF-070523	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-133442-A-3	Trip Blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-395506/1003		624.1		5 mL	5 mL				2705

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00008	MSV_LCS_2CEVE 00123	MSV_LCS_ACR 00016	MSV_LCS_Gases 00150	MSV_LCS_VOC#1 00118	
MB 410-395506/5		624.1		5 uL					
410-133442-E-1	EFF-070523	624.1	T	5 uL					
410-133442-E-2	INF-070523	624.1	T	5 uL					
410-133442-A-3	Trip Blank	624.1	T	5 uL					
LCS 410-395506/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-133442-1

SDG No.:

Batch Number: 395463 | Batch Start Date: 07/11/23 07:43 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 07/11/23 13:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-395463/1		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCS 410-395463/2		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
410-133442-B-1	EFF-070523	625.1, 625.1	T	411.48 g	166.27 g	245.2 mL	1.0 mL	n/a SU	>11 SU
410-133442-B-2	INF-070523	625.1, 625.1	T	416.25 g	169.53 g	246.7 mL	1.0 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00014	OP_MINLCS1_MS 00174	AnalysisComment	
MB 410-395463/1		625.1, 625.1		<2 SU	n SU	0.25 mL		Tap H2O	
LCS 410-395463/2		625.1, 625.1		<2 SU	n SU	0.25 mL	1 mL	Tap H2O	
410-133442-B-1	EFF-070523	625.1, 625.1	T	<2 SU	n SU	0.25 mL		Pale Yellow Tint	
410-133442-B-2	INF-070523	625.1, 625.1	T	<2 SU	n SU	0.25 mL		Yellow Cloudy	

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662
Analyst ID - Spike Analyst	PDH91662
Analyst ID - Spike Witness Analyst	PDH91662
Acid Used for pH Adjustment ID	H2SO4: 225894
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 232230
Prep Solvent Volume Used	90
Extraction 1 Start Time	07/11/2023 10:12
Extraction 1 End Time	07/11/2023 11:41
Na2SO4 ID	23186A
Analyst ID - Concentration	PDH91662
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-133442-1

SDG No.:

Batch Number: 395463 Batch Start Date: 07/11/23 07:43 Batch Analyst: Hall, Patrick

Batch Method: 625.1 Batch End Date: 07/11/23 13:55

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-133442-1

SDG No.:

Batch Number: 395141 | Batch Start Date: 07/10/23 20:30 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 | Batch End Date: 07/11/23 01:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00028	MP_1:1HNO3 00044	MT_LCS-SPK-A 00027	MT_LCS-SPK-B 00026
MB 410-395141/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-395141/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-133442-H-1	EFF-070523	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-133442-H-2	INF-070523	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	12
Digestion Tube/Cup ID	2206050
Thermometer ID	3811
Pipette ID	g20054g
Analyst ID - Spike Witness Analyst	0862
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-133442-1

SDG No.:

Batch Number: 394957 | Batch Start Date: 07/10/23 09:19 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 07/11/23 08:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-394957/1		2540D-2015		hXIUI	0.1122 g	1000 mL	0.1126 g	0.0004 g	1000 mL
LCS 410-394957/2		2540D-2015		hXIUJ	0.1174 g	1000 mL	0.2644 g	0.1470 g	1000 mL
410-133442-D-1	EFF-070523	2540D-2015	T	hXIUM	0.1176 g	1000 mL	0.1196 g	0.0020 g	1000 mL
410-133442-D-2	INF-070523	2540D-2015	T	hXIUP	0.1128 g	400 mL	0.1356 g	0.0228 g	1000 mL
410-133442-D-2 DU	INF-070523	2540D-2015	T	hXIUQ	0.1128 g	400 mL	0.1318 g	0.0190 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00046	AnalysisComment		
MB 410-394957/1		2540D-2015		0.1126 g	0.1122 g				
LCS 410-394957/2		2540D-2015		0.2644 g	0.1174 g	0.1505 g	vial 9 0.1505		
410-133442-D-1	EFF-070523	2540D-2015	T	0.1196 g	0.1176 g				
410-133442-D-2	INF-070523	2540D-2015	T	0.1356 g	0.1128 g		100+100+100+100 slow,cloudy		
410-133442-D-2 DU	INF-070523	2540D-2015	T	0.1318 g	0.1128 g				

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600030-3109-r1
Balance ID	27505
Oven ID	7492
Thermometer ID	1052
Date/Time - In	07/10/2023 09:19
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	07/11/2023 08:30
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-133442-1

SDG No.:

Batch Number: 394957 Batch Start Date: 07/10/23 09:19 Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 Batch End Date: 07/11/23 08:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

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JOB DESCRIPTION

Wellsville OU2 - Monthly SPDES

JOB NUMBER

410-137357-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

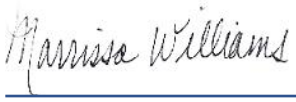
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
cn	Refer to Case Narrative for further detail
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-137357-1

Job ID: 410-137357-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-137357-1

Receipt
The samples were received on 8/3/2023 9:55 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 3.6°C

GC/MS VOA
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: Surrogate recoveries for the method blank (MB) associated with preparation batch 410-405394 was outside the lower control limits. The associated sample(s) did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-080223 — Lab Sample ID: 410-137357-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	560		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4000		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-080223 — Lab Sample ID: 410-137357-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.5		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	1.8		1.0		ug/L	1		624.1	Total/NA
Toluene	2.3		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	3.1		1.0		ug/L	1		624.1	Total/NA
Nitrobenzene	150		26		ug/L	5		625.1	Total/NA
Arsenic	63		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	27000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4200		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	46		5.2		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip blank — Lab Sample ID: 410-137357-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-080223
Lab Sample ID: 410-137357-1

Date Collected: 08/02/23 08:15
Matrix: Water
Date Received: 08/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			08/07/23 16:14	1
Benzene	1.0	U	1.0		ug/L			08/07/23 16:14	1
Chloroethane	1.0	U	1.0		ug/L			08/07/23 16:14	1
Ethylbenzene	1.0	U	1.0		ug/L			08/07/23 16:14	1
Toluene	1.0	U	1.0		ug/L			08/07/23 16:14	1
Vinyl chloride	1.0	U	1.0		ug/L			08/07/23 16:14	1
Xylenes, Total	1.0	U	1.0		ug/L			08/07/23 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 140*		*08/07/23 16:14*	*1*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*08/07/23 16:14*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*		*08/07/23 16:14*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*08/07/23 16:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U *+ cn	5.1		ug/L		08/07/23 15:56	08/08/23 03:40	1
Acenaphthene	5.1	U cn	5.1		ug/L		08/07/23 15:56	08/08/23 03:40	1
Aniline	5.1	U cn	5.1		ug/L		08/07/23 15:56	08/08/23 03:40	1
Fluorene	5.1	U cn	5.1		ug/L		08/07/23 15:56	08/08/23 03:40	1
Naphthalene	2.0	U cn	2.0		ug/L		08/07/23 15:56	08/08/23 03:40	1
Nitrobenzene	5.1	U cn	5.1		ug/L		08/07/23 15:56	08/08/23 03:40	1
Phenanthrene	5.1	U cn	5.1		ug/L		08/07/23 15:56	08/08/23 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*	*cn*	*10 - 150*	*08/07/23 15:56*	*08/08/23 03:40*	*1*
2-Fluorobiphenyl (Surr)	*77*	*cn*	*32 - 115*	*08/07/23 15:56*	*08/08/23 03:40*	*1*
2-Fluorophenol (Surr)	*41*	*cn*	*10 - 83*	*08/07/23 15:56*	*08/08/23 03:40*	*1*
Nitrobenzene-d5 (Surr)	*75*	*cn*	*41 - 121*	*08/07/23 15:56*	*08/08/23 03:40*	*1*
p-Terphenyl-d14 (Surr)	*50*	*cn*	*28 - 134*	*08/07/23 15:56*	*08/08/23 03:40*	*1*
Phenol-d5 (Surr)	*26*	*cn*	*10 - 63*	*08/07/23 15:56*	*08/08/23 03:40*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		08/08/23 21:36	08/11/23 00:32	1
Iron	**560**		50		ug/L		08/08/23 21:36	08/11/23 00:32	1
Manganese	**4000**		2.0		ug/L		08/08/23 21:36	08/11/23 00:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			08/07/23 20:02	1

Client Sample ID: INF-080223
Lab Sample ID: 410-137357-2

Date Collected: 08/02/23 08:25
Matrix: Water
Date Received: 08/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			08/07/23 16:38	1
Benzene	**5.5**		1.0		ug/L			08/07/23 16:38	1

Client Sample ID: INF-080223
Lab Sample ID: 410-137357-2
Date Collected: 08/02/23 08:25
Matrix: Water
Date Received: 08/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			08/07/23 16:38	1
Ethylbenzene	**1.8**		1.0		ug/L			08/07/23 16:38	1
Toluene	**2.3**		1.0		ug/L			08/07/23 16:38	1
Vinyl chloride	1.0	U	1.0		ug/L			08/07/23 16:38	1
Xylenes, Total	**3.1**		1.0		ug/L			08/07/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*08/07/23 16:38*	*1*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*		*08/07/23 16:38*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*08/07/23 16:38*	*1*
Toluene-d8 (Surr)	*105*		*60 - 140*		*08/07/23 16:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.2	U *+	5.2		ug/L		08/09/23 15:37	08/10/23 01:54	1
Acenaphthene	5.2	U	5.2		ug/L		08/09/23 15:37	08/10/23 01:54	1
Aniline	5.2	U	5.2		ug/L		08/09/23 15:37	08/10/23 01:54	1
Fluorene	5.2	U	5.2		ug/L		08/09/23 15:37	08/10/23 01:54	1
Naphthalene	2.1	U	2.1		ug/L		08/09/23 15:37	08/10/23 01:54	1
Nitrobenzene	**150**		26		ug/L		08/09/23 15:37	08/11/23 03:58	5
Phenanthrene	5.2	U	5.2		ug/L		08/09/23 15:37	08/10/23 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 150*	*08/09/23 15:37*	*08/10/23 01:54*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*10 - 150*	*08/09/23 15:37*	*08/11/23 03:58*	*5*
2-Fluorobiphenyl (Surr)	*68*		*32 - 115*	*08/09/23 15:37*	*08/10/23 01:54*	*1*
2-Fluorobiphenyl (Surr)	*61*		*32 - 115*	*08/09/23 15:37*	*08/11/23 03:58*	*5*
2-Fluorophenol (Surr)	*51*		*10 - 83*	*08/09/23 15:37*	*08/10/23 01:54*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 83*	*08/09/23 15:37*	*08/11/23 03:58*	*5*
Nitrobenzene-d5 (Surr)	*67*		*41 - 121*	*08/09/23 15:37*	*08/10/23 01:54*	*1*
Nitrobenzene-d5 (Surr)	*60*		*41 - 121*	*08/09/23 15:37*	*08/11/23 03:58*	*5*
p-Terphenyl-d14 (Surr)	*52*		*28 - 134*	*08/09/23 15:37*	*08/10/23 01:54*	*1*
p-Terphenyl-d14 (Surr)	*38*		*28 - 134*	*08/09/23 15:37*	*08/11/23 03:58*	*5*
Phenol-d5 (Surr)	*40*		*10 - 63*	*08/09/23 15:37*	*08/10/23 01:54*	*1*
Phenol-d5 (Surr)	*32*		*10 - 63*	*08/09/23 15:37*	*08/11/23 03:58*	*5*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**63**		2.0		ug/L		08/08/23 21:36	08/11/23 00:30	1
Iron	**27000**		50		ug/L		08/08/23 21:36	08/11/23 00:30	1
Manganese	**4200**		2.0		ug/L		08/08/23 21:36	08/11/23 00:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**46**		5.2		mg/L			08/07/23 20:02	1

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: Trip blank
Lab Sample ID: 410-137357-3
Date Collected: 08/02/23 08:25
Matrix: Water
Date Received: 08/03/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			08/07/23 17:01	1
Benzene	1.0	U	1.0		ug/L			08/07/23 17:01	1
Chloroethane	1.0	U	1.0		ug/L			08/07/23 17:01	1
Ethylbenzene	1.0	U	1.0		ug/L			08/07/23 17:01	1
Toluene	1.0	U	1.0		ug/L			08/07/23 17:01	1
Vinyl chloride	1.0	U	1.0		ug/L			08/07/23 17:01	1
Xylenes, Total	1.0	U	1.0		ug/L			08/07/23 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*		*08/07/23 17:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*08/07/23 17:01*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*08/07/23 17:01*	*1*
Toluene-d8 (Surr)	*98*		*60 - 140*		*08/07/23 17:01*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

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

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

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)				
410-137357-1	EFF-080223	112	95	110	97				
410-137357-2	INF-080223	105	104	100	105				
410-137357-3	Trip blank	111	95	108	98				
LCS 410-405239/1003	Lab Control Sample	103	96	99	103				
MB 410-405239/5	Method Blank	109	96	107	98				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)		
410-137357-1	EFF-080223	78 cn	77 cn	41 cn	75 cn	50 cn	26 cn		
410-137357-2	INF-080223	88	68	51	67	52	40		
410-137357-2	INF-080223	63	61	42	60	38	32		
LCS 410-405394/2-A	Lab Control Sample	102	82	60	78	97	49		
LCS 410-406393/2-A	Lab Control Sample	101	81	63	78	107	53		
MB 410-405394/1-A	Method Blank	84	27 S1-	53	27 S1-	60	37		
MB 410-406393/1-A	Method Blank	94	79	54	72	107	41		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-405239/5
Matrix: Water
Analysis Batch: 405239

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			08/07/23 13:31	1
Benzene	1.0	U	1.0		ug/L			08/07/23 13:31	1
Chloroethane	1.0	U	1.0		ug/L			08/07/23 13:31	1
Ethylbenzene	1.0	U	1.0		ug/L			08/07/23 13:31	1
Toluene	1.0	U	1.0		ug/L			08/07/23 13:31	1
Vinyl chloride	1.0	U	1.0		ug/L			08/07/23 13:31	1
Xylenes, Total	1.0	U	1.0		ug/L			08/07/23 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*08/07/23 13:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*08/07/23 13:31*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*08/07/23 13:31*	*1*
Toluene-d8 (Surr)	*98*		*60 - 140*		*08/07/23 13:31*	*1*

Lab Sample ID: LCS 410-405239/1003
Matrix: Water
Analysis Batch: 405239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	19.3		ug/L		96	70 - 130
Benzene	20.0	18.4		ug/L		92	65 - 135
Chloroethane	20.0	19.9		ug/L		100	40 - 160
Ethylbenzene	20.0	19.7		ug/L		98	60 - 140
Toluene	20.0	18.9		ug/L		94	70 - 130
Vinyl chloride	20.0	17.3		ug/L		87	10 - 195
Xylenes, Total	60.0	61.0		ug/L		102	60 - 140
o-Xylene	20.0	19.5		ug/L		97	60 - 140
m&p-Xylene	40.0	41.5		ug/L		104	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*
Dibromofluoromethane (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*103*		*60 - 140*

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

Lab Sample ID: MB 410-405394/1-A
Matrix: Water
Analysis Batch: 405395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 405394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		08/07/23 15:56	08/07/23 20:46	1
Acenaphthene	5.0	U	5.0		ug/L		08/07/23 15:56	08/07/23 20:46	1
Aniline	5.0	U	5.0		ug/L		08/07/23 15:56	08/07/23 20:46	1
Fluorene	5.0	U	5.0		ug/L		08/07/23 15:56	08/07/23 20:46	1
Naphthalene	2.0	U	2.0		ug/L		08/07/23 15:56	08/07/23 20:46	1
Nitrobenzene	5.0	U	5.0		ug/L		08/07/23 15:56	08/07/23 20:46	1

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

Lab Sample ID: MB 410-405394/1-A
Matrix: Water
Analysis Batch: 405395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 405394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	5.0	U	5.0		ug/L		08/07/23 15:56	08/07/23 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*08/07/23 15:56*	*08/07/23 20:46*	*1*
2-Fluorobiphenyl (Surr)	*27*	*S1-*	*32 - 115*	*08/07/23 15:56*	*08/07/23 20:46*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 83*	*08/07/23 15:56*	*08/07/23 20:46*	*1*
Nitrobenzene-d5 (Surr)	*27*	*S1-*	*41 - 121*	*08/07/23 15:56*	*08/07/23 20:46*	*1*
p-Terphenyl-d14 (Surr)	*60*		*28 - 134*	*08/07/23 15:56*	*08/07/23 20:46*	*1*
Phenol-d5 (Surr)	*37*		*10 - 63*	*08/07/23 15:56*	*08/07/23 20:46*	*1*

Lab Sample ID: LCS 410-405394/2-A
Matrix: Water
Analysis Batch: 405395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 405394

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	61.1	*+	ug/L		122	50 - 114
Acenaphthene	50.0	49.2		ug/L		98	47 - 145
Aniline	50.0	39.2		ug/L		78	21 - 106
Fluorene	50.0	50.3		ug/L		101	59 - 121
Naphthalene	50.0	44.2		ug/L		88	21 - 133
Nitrobenzene	50.0	54.7		ug/L		109	35 - 180
Phenanthrene	50.0	52.0		ug/L		104	54 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*102*		*10 - 150*
2-Fluorobiphenyl (Surr)	*82*		*32 - 115*
2-Fluorophenol (Surr)	*60*		*10 - 83*
Nitrobenzene-d5 (Surr)	*78*		*41 - 121*
p-Terphenyl-d14 (Surr)	*97*		*28 - 134*
Phenol-d5 (Surr)	*49*		*10 - 63*

Lab Sample ID: MB 410-406393/1-A
Matrix: Water
Analysis Batch: 406483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406393

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		08/09/23 15:37	08/09/23 21:38	1
Acenaphthene	5.0	U	5.0		ug/L		08/09/23 15:37	08/09/23 21:38	1
Aniline	5.0	U	5.0		ug/L		08/09/23 15:37	08/09/23 21:38	1
Fluorene	5.0	U	5.0		ug/L		08/09/23 15:37	08/09/23 21:38	1
Naphthalene	2.0	U	2.0		ug/L		08/09/23 15:37	08/09/23 21:38	1
Nitrobenzene	5.0	U	5.0		ug/L		08/09/23 15:37	08/09/23 21:38	1
Phenanthrene	5.0	U	5.0		ug/L		08/09/23 15:37	08/09/23 21:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*10 - 150*	*08/09/23 15:37*	*08/09/23 21:38*	*1*
2-Fluorobiphenyl (Surr)	*79*		*32 - 115*	*08/09/23 15:37*	*08/09/23 21:38*	*1*
2-Fluorophenol (Surr)	*54*		*10 - 83*	*08/09/23 15:37*	*08/09/23 21:38*	*1*

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

Lab Sample ID: MB 410-406393/1-A
Matrix: Water
Analysis Batch: 406483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406393

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	72		41 - 121	08/09/23 15:37	08/09/23 21:38	1
p-Terphenyl-d14 (Surr)	107		28 - 134	08/09/23 15:37	08/09/23 21:38	1
Phenol-d5 (Surr)	41		10 - 63	08/09/23 15:37	08/09/23 21:38	1

Lab Sample ID: LCS 410-406393/2-A
Matrix: Water
Analysis Batch: 406483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 406393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	61.7	*+	ug/L		123	50 - 114
Acenaphthene	50.0	46.8		ug/L		94	47 - 145
Aniline	50.0	37.9		ug/L		76	21 - 106
Fluorene	50.0	48.3		ug/L		97	59 - 121
Naphthalene	50.0	43.8		ug/L		88	21 - 133
Nitrobenzene	50.0	51.4		ug/L		103	35 - 180
Phenanthrene	50.0	48.8		ug/L		98	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	101		10 - 150
2-Fluorobiphenyl (Surr)	81		32 - 115
2-Fluorophenol (Surr)	63		10 - 83
Nitrobenzene-d5 (Surr)	78		41 - 121
p-Terphenyl-d14 (Surr)	107		28 - 134
Phenol-d5 (Surr)	53		10 - 63

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-406028/1-A
Matrix: Water
Analysis Batch: 407057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		08/08/23 21:36	08/11/23 00:06	1
Iron	50	U	50		ug/L		08/08/23 21:36	08/11/23 00:06	1
Manganese	2.0	U	2.0		ug/L		08/08/23 21:36	08/11/23 00:06	1

Lab Sample ID: LCS 410-406028/2-A
Matrix: Water
Analysis Batch: 407057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 406028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	488		ug/L		98	85 - 115
Iron	5000	4780		ug/L		96	85 - 115
Manganese	500	490		ug/L		98	85 - 115

QC Sample Results

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Monthly SPDES

Job ID: 410-137357-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-405396/1
Matrix: Water
Analysis Batch: 405396

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			08/07/23 20:02	1

Lab Sample ID: LCS 410-405396/2
Matrix: Water
Analysis Batch: 405396

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			150	147		mg/L		98	89 - 105		

Lab Sample ID: 410-137357-2 DU
Matrix: Water
Analysis Batch: 405396

Client Sample ID: INF-080223
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	46			46.9		mg/L				1	5

GC/MS VOA

Analysis Batch: 405239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-1	EFF-080223	Total/NA	Water	624.1	
410-137357-2	INF-080223	Total/NA	Water	624.1	
410-137357-3	Trip blank	Total/NA	Water	624.1	
MB 410-405239/5	Method Blank	Total/NA	Water	624.1	
LCS 410-405239/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 405394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-1	EFF-080223	Total/NA	Water	625.1	
MB 410-405394/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-405394/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 405395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-1	EFF-080223	Total/NA	Water	625.1	405394
MB 410-405394/1-A	Method Blank	Total/NA	Water	625.1	405394
LCS 410-405394/2-A	Lab Control Sample	Total/NA	Water	625.1	405394

Prep Batch: 406393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-2	INF-080223	Total/NA	Water	625.1	
MB 410-406393/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-406393/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 406483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-2	INF-080223	Total/NA	Water	625.1	406393
MB 410-406393/1-A	Method Blank	Total/NA	Water	625.1	406393
LCS 410-406393/2-A	Lab Control Sample	Total/NA	Water	625.1	406393

Analysis Batch: 406974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-2	INF-080223	Total/NA	Water	625.1	406393

Metals

Prep Batch: 406028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-1	EFF-080223	Total/NA	Water	200.8 Rev 5.4	
410-137357-2	INF-080223	Total/NA	Water	200.8 Rev 5.4	
MB 410-406028/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-406028/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 407057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-1	EFF-080223	Total/NA	Water	200.8 Rev 5.4	406028
410-137357-2	INF-080223	Total/NA	Water	200.8 Rev 5.4	406028
MB 410-406028/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	406028
LCS 410-406028/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	406028

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

General Chemistry

Analysis Batch: 405396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-137357-1	EFF-080223	Total/NA	Water	2540D-2015	
410-137357-2	INF-080223	Total/NA	Water	2540D-2015	
MB 410-405396/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-405396/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-137357-2 DU	INF-080223	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

Client Sample ID: EFF-080223
Lab Sample ID: 410-137357-1
Date Collected: 08/02/23 08:15
Matrix: Water
Date Received: 08/03/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	405239	UJML	ELLE	08/07/23 16:14
Total/NA	Prep	625.1			405394	T9CY	ELLE	08/07/23 15:56
Total/NA	Analysis	625.1		1	405395	SJ89	ELLE	08/08/23 03:40
Total/NA	Prep	200.8 Rev 5.4			406028	UAMX	ELLE	08/08/23 21:36
Total/NA	Analysis	200.8 Rev 5.4		1	407057	LC3M	ELLE	08/11/23 00:32
Total/NA	Analysis	2540D-2015		1	405396	UOCA	ELLE	08/07/23 20:02 - 08/08/23 20:02 [1]

Client Sample ID: INF-080223
Lab Sample ID: 410-137357-2
Date Collected: 08/02/23 08:25
Matrix: Water
Date Received: 08/03/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	405239	UJML	ELLE	08/07/23 16:38
Total/NA	Prep	625.1			406393	T9CY	ELLE	08/09/23 15:37
Total/NA	Analysis	625.1		1	406483	SJ89	ELLE	08/10/23 01:54
Total/NA	Prep	625.1			406393	T9CY	ELLE	08/09/23 15:37
Total/NA	Analysis	625.1		5	406974	SJ89	ELLE	08/11/23 03:58
Total/NA	Prep	200.8 Rev 5.4			406028	UAMX	ELLE	08/08/23 21:36
Total/NA	Analysis	200.8 Rev 5.4		1	407057	LC3M	ELLE	08/11/23 00:30
Total/NA	Analysis	2540D-2015		1	405396	UOCA	ELLE	08/07/23 20:02 - 08/08/23 20:02 [1]

Client Sample ID: Trip blank
Lab Sample ID: 410-137357-3
Date Collected: 08/02/23 08:25
Matrix: Water
Date Received: 08/03/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	405239	UJML	ELLE	08/07/23 17:01

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-137357-1
Project/Site: Wellsville OU2 - Monthly SPDES

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-137357-1	EFF-080223	Water	08/02/23 08:15	08/03/23 09:55
410-137357-2	INF-080223	Water	08/02/23 08:25	08/03/23 09:55
410-137357-3	Trip blank	Water	08/02/23 08:25	08/03/23 09:55

410-137357 Chain of Custody

boratory Management Program LaMP Chain of Custody Record

Page 1 of 1

ARC Project Name: Wellsville OU2 - Monthly SPDES | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ___ No X

ARC Facility No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order: 72171	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS						Comments
	EFF-080223	8/2/2023	815		X			7	3		1	3			3	2	1	1							pH= 7 22
	INF-080223	8/2/2023	825		X			7	3		1	3			3	2	1	1							pH= 6 74
	Trip blank	8/2/2023	825		X			2				2													
	Temp blank	8/2/2023			X			1																	
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																								
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																								

Report Type & QC Level: Standard X; Full Data Package

Comments: Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	8/2/23	1200			
Shipment Method: FedEx Ship Date: 8/2/2023						
Shipment Tracking No: 817410099288					8/3/23	0955

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: (Yes) / No | Temp Blank: Yes / (No) | Cooler Temp on Receipt: Blk: 3.7 IR: 3.0 °F/C | Trip Blank: (Yes) / No | MS/MSD Sample Submitted: Yes / (No)

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-137357-1

Login Number: 137357

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	No Headspace

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 405239 | Batch Start Date: 08/07/23 12:09 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-405239/5		624.1		5 mL	5 mL				2705
410-137357-E-1	EFF-080223	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-137357-E-2	INF-080223	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-137357-A-3	Trip blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-405239/1003		624.1		5 mL	5 mL				2705

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00008	MSV_LCS_2CEVE 00127	MSV_LCS_ACR 00018	MSV_LCS_Gases 00154	MSV_LCS_VOC#1 00124	
MB 410-405239/5		624.1		5 uL					
410-137357-E-1	EFF-080223	624.1	T	5 uL					
410-137357-E-2	INF-080223	624.1	T	5 uL					
410-137357-A-3	Trip blank	624.1	T	5 uL					
LCS 410-405239/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 405394 | Batch Start Date: 08/07/23 15:56 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 625.1 | Batch End Date: 08/07/23 20:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-405394/1		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
LCS 410-405394/2		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
410-137357-B-1	EFF-080223	625.1, 625.1	T	410.83 g	163.67 g	247.2 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_625_SS 00015	OP_MINLCS1_MS 00178	AnalysisComment		
MB 410-405394/1		625.1, 625.1		2 SU	0.25 mL		tap water		
LCS 410-405394/2		625.1, 625.1		2 SU	0.25 mL	1 mL	tap water		
410-137357-B-1	EFF-080223	625.1, 625.1	T	2 SU	0.25 mL		clear		

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067 DBH82588 AS86224
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 63146
Prep Solvent Volume Used	90
Extraction 1 Start Time	08/07/2023 15:56
Extraction 1 End Time	08/07/2023 20:10
Na2SO4 ID	23216A
Analyst ID - Concentration	OS11067 DBH82588 AS86224
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	427873
Pipette Tip Lot ID	32522

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 405394 Batch Start Date: 08/07/23 15:56 Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 625.1 Batch End Date: 08/07/23 20:10

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 406393 | Batch Start Date: 08/09/23 15:37 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 625.1 | Batch End Date: 08/09/23 19:52

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-406393/1		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
LCS 410-406393/2		625.1, 625.1				250 mL	1 mL	n/a SU	11 SU
410-137357-C-2	INF-080223	625.1, 625.1	T	402.82 g	162.99 g	239.8 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_625_SS 00015	OP_MINLCS1_MS 00179	AnalysisComment		
MB 410-406393/1		625.1, 625.1		2 SU	0.25 mL		tap water		
LCS 410-406393/2		625.1, 625.1		2 SU	0.25 mL	1 mL	tap water		
410-137357-C-2	INF-080223	625.1, 625.1	T	2 SU	0.25 mL		orange tint		

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067 DBH82588 AS86224
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4:225553
Base Used to Adjust pH ID	NaOH:4202B64
Prep Solvent ID	MeCl2:63146
Prep Solvent Volume Used	90
Extraction 1 Start Time	08/09/2023 15:37
Extraction 1 End Time	08/09/2023 19:52
Na2SO4 ID	23220A
Analyst ID - Concentration	OS11067 DBH82588 AS86224
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	23128141
Pipette Tip Lot ID	L208646

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 406393 Batch Start Date: 08/09/23 15:37 Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 625.1 Batch End Date: 08/09/23 19:52

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 406028 | Batch Start Date: 08/08/23 21:40 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 | Batch End Date: 08/09/23 02:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00029	MP_1:1HNO3 00045	MT_LCS-SPK-A 00030	MT_LCS-SPK-B 00029
MB 410-406028/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-406028/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-137357-H-2	INF-080223	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-137357-H-1	EFF-080223	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Hot Block ID	12
Thermometer ID	3811
Uncorrected Temperature	85 Celsius
Pipette ID	G20054G
Pipette Tip Lot ID	F169949R
Digestion Tube/Cup ID	2206050
Reflux Cap ID	2204135

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 405396 | Batch Start Date: 08/07/23 20:02 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 | Batch End Date: 08/08/23 20:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-405396/1		2540D-2015		KMYEI	0.1164 g	1000 mL	0.1162 g	-0.0002 g	1000 mL
LCS 410-405396/2		2540D-2015		KMXJ2	0.1147 g	1000 mL	0.2620 g	0.1473 g	1000 mL
410-137357-D-1	EFF-080223	2540D-2015	T	KNB36	0.1158 g	1000 mL	0.1174 g	0.0016 g	1000 mL
410-137357-D-2	INF-080223	2540D-2015	T	KNB37	0.1151 g	580 mL	0.1419 g	0.0268 g	1000 mL
410-137357-D-2 DU	INF-080223	2540D-2015	T	KNB38	0.1149 g	580 mL	0.1421 g	0.0272 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00049	AnalysisComment		
MB 410-405396/1		2540D-2015		0.1162 g	0.1164 g				
LCS 410-405396/2		2540D-2015		0.262 g	0.1147 g	0.1502 g			
410-137357-D-1	EFF-080223	2540D-2015	T	0.1174 g	0.1158 g				
410-137357-D-2	INF-080223	2540D-2015	T	0.1419 g	0.1151 g		Part 500+80, Slow Filtrtion, Cloudy, Sediment		
410-137357-D-2 DU	INF-080223	2540D-2015	T	0.1421 g	0.1149 g		Part 500+80, Slow Filtrtion, Cloudy, Sediment		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-137357-1

SDG No.:

Batch Number: 405396 | Batch Start Date: 08/07/23 20:02 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 | Batch End Date: 08/08/23 20:02

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600040-3113-R2
Balance ID	27504
Balance is Level? (Y/N)	yes
Oven ID	7492
Thermometer ID	1052
Date/Time - In	08/07/2023 20:02
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	08/08/2023 20:02
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius
Batch Comment	LCS N0. 23

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

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JOB DESCRIPTION

BP Wellsville, NY

JOB NUMBER

410-141802-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

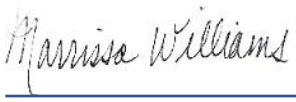
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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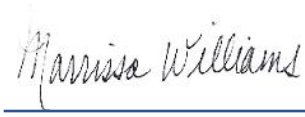

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Client: On-Site Health and Safety
Job ID: 410-141802-1
Project/Site: BP Wellsville, NY

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Job ID: 410-141802-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-141802-1

Receipt
The samples were received on 9/7/2023 10:26 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 1.6°C

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

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Client Sample ID: EFF-090623 — Lab Sample ID: 410-141802-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	780		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3700		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-090623 — Lab Sample ID: 410-141802-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2		1.0		ug/L	1		624.1	Total/NA
Chloroethane	1.9		1.0		ug/L	1		624.1	Total/NA
Toluene	2.2		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	1.8		1.0		ug/L	1		624.1	Total/NA
Aniline - DL	1100		100		ug/L	20		625.1	Total/NA
Nitrobenzene - DL	400		100		ug/L	20		625.1	Total/NA
Arsenic	89		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	31000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3400		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	70		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-141802-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-090623

Lab Sample ID: 410-141802-1

Date Collected: 09/06/23 09:45

Matrix: Water

Date Received: 09/07/23 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/14/23 22:30	1
Benzene	1.0	U	1.0		ug/L			09/14/23 22:30	1
Chloroethane	1.0	U	1.0		ug/L			09/14/23 22:30	1
Ethylbenzene	1.0	U	1.0		ug/L			09/14/23 22:30	1
Toluene	1.0	U	1.0		ug/L			09/14/23 22:30	1
Vinyl chloride	1.0	U	1.0		ug/L			09/14/23 22:30	1
Xylenes, Total	1.0	U	1.0		ug/L			09/14/23 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*09/14/23 22:30*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*09/14/23 22:30*	*1*
Dibromofluoromethane (Surr)	*116*		*60 - 140*		*09/14/23 22:30*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*09/14/23 22:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 18:45	1
Acenaphthene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 18:45	1
Aniline	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 18:45	1
Fluorene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 18:45	1
Naphthalene	2.0	U	2.0		ug/L		09/09/23 07:51	09/11/23 18:45	1
Nitrobenzene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 18:45	1
Phenanthrene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*53*		*10 - 150*	*09/09/23 07:51*	*09/11/23 18:45*	*1*
2-Fluorobiphenyl (Surr)	*63*		*32 - 115*	*09/09/23 07:51*	*09/11/23 18:45*	*1*
2-Fluorophenol (Surr)	*31*		*10 - 83*	*09/09/23 07:51*	*09/11/23 18:45*	*1*
Nitrobenzene-d5 (Surr)	*63*		*41 - 121*	*09/09/23 07:51*	*09/11/23 18:45*	*1*
p-Terphenyl-d14 (Surr)	*46*		*28 - 134*	*09/09/23 07:51*	*09/11/23 18:45*	*1*
Phenol-d5 (Surr)	*22*		*10 - 63*	*09/09/23 07:51*	*09/11/23 18:45*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.7**		2.0		ug/L		09/09/23 02:00	09/12/23 00:08	1
Iron	**780**		50		ug/L		09/09/23 02:00	09/12/23 00:08	1
Manganese	**3700**		2.0		ug/L		09/09/23 02:00	09/12/23 22:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			09/10/23 16:39	1

Client Sample ID: INF-090623

Lab Sample ID: 410-141802-2

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 10:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/14/23 22:07	1
Benzene	**3.2**		1.0		ug/L			09/14/23 22:07	1

Client Sample ID: INF-090623
Date Collected: 09/06/23 10:00
Date Received: 09/07/23 10:26

Lab Sample ID: 410-141802-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	**1.9**		1.0		ug/L			09/14/23 22:07	1
Ethylbenzene	1.0	U	1.0		ug/L			09/14/23 22:07	1
Toluene	**2.2**		1.0		ug/L			09/14/23 22:07	1
Vinyl chloride	1.0	U	1.0		ug/L			09/14/23 22:07	1
Xylenes, Total	**1.8**		1.0		ug/L			09/14/23 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*		*09/14/23 22:07*	*1*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*09/14/23 22:07*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*09/14/23 22:07*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*09/14/23 22:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U	5.1		ug/L		09/09/23 07:51	09/12/23 00:19	1
Acenaphthene	5.1	U	5.1		ug/L		09/09/23 07:51	09/12/23 00:19	1
Fluorene	5.1	U	5.1		ug/L		09/09/23 07:51	09/12/23 00:19	1
Naphthalene	2.0	U	2.0		ug/L		09/09/23 07:51	09/12/23 00:19	1
Phenanthrene	5.1	U	5.1		ug/L		09/09/23 07:51	09/12/23 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*33*		*10 - 150*	*09/09/23 07:51*	*09/12/23 00:19*	*1*
2-Fluorobiphenyl (Surr)	*72*		*32 - 115*	*09/09/23 07:51*	*09/12/23 00:19*	*1*
2-Fluorophenol (Surr)	*4*	*S1-*	*10 - 83*	*09/09/23 07:51*	*09/12/23 00:19*	*1*
Nitrobenzene-d5 (Surr)	*69*		*41 - 121*	*09/09/23 07:51*	*09/12/23 00:19*	*1*
p-Terphenyl-d14 (Surr)	*73*		*28 - 134*	*09/09/23 07:51*	*09/12/23 00:19*	*1*
Phenol-d5 (Surr)	*6*	*S1-*	*10 - 63*	*09/09/23 07:51*	*09/12/23 00:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**1100**		100		ug/L		09/09/23 07:51	09/12/23 22:35	20
Nitrobenzene	**400**		100		ug/L		09/09/23 07:51	09/12/23 22:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*18*		*10 - 150*	*09/09/23 07:51*	*09/12/23 22:35*	*20*
2-Fluorobiphenyl (Surr)	*67*		*32 - 115*	*09/09/23 07:51*	*09/12/23 22:35*	*20*
2-Fluorophenol (Surr)	*0*	*S1-*	*10 - 83*	*09/09/23 07:51*	*09/12/23 22:35*	*20*
Nitrobenzene-d5 (Surr)	*62*		*41 - 121*	*09/09/23 07:51*	*09/12/23 22:35*	*20*
p-Terphenyl-d14 (Surr)	*68*		*28 - 134*	*09/09/23 07:51*	*09/12/23 22:35*	*20*
Phenol-d5 (Surr)	*6*	*S1-*	*10 - 63*	*09/09/23 07:51*	*09/12/23 22:35*	*20*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**89**		2.0		ug/L		09/09/23 02:00	09/12/23 00:06	1
Iron	**31000**		50		ug/L		09/09/23 02:00	09/12/23 22:44	1
Manganese	**3400**		2.0		ug/L		09/09/23 02:00	09/12/23 22:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**70**		6.0		mg/L			09/10/23 16:39	1

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Client Sample ID: Trip Blank
Date Collected: 09/06/23 10:00
Date Received: 09/07/23 10:26

Lab Sample ID: 410-141802-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/14/23 21:43	1
Benzene	1.0	U	1.0		ug/L			09/14/23 21:43	1
Chloroethane	1.0	U	1.0		ug/L			09/14/23 21:43	1
Ethylbenzene	1.0	U	1.0		ug/L			09/14/23 21:43	1
Toluene	1.0	U	1.0		ug/L			09/14/23 21:43	1
Vinyl chloride	1.0	U	1.0		ug/L			09/14/23 21:43	1
Xylenes, Total	1.0	U	1.0		ug/L			09/14/23 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*09/14/23 21:43*	*1*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*09/14/23 21:43*	*1*
Dibromofluoromethane (Surr)	*116*		*60 - 140*		*09/14/23 21:43*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*09/14/23 21:43*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)				
410-141802-1	EFF-090623	114	94	116	97				
410-141802-2	INF-090623	107	106	104	101				
410-141802-3	Trip Blank	113	95	116	97				
LCS 410-419447/1003	Lab Control Sample	103	99	103	105				
MB 410-419447/5	Method Blank	109	95	112	96				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)		
410-141802-1	EFF-090623	53	63	31	63	46	22		
410-141802-2	INF-090623	33	72	4 S1-	69	73	6 S1-		
410-141802-2 - DL	INF-090623	18	67	0 S1-	62	68	6 S1-		
LCS 410-417649/2-A	Lab Control Sample	81	78	52	81	90	38		
MB 410-417649/1-A	Method Blank	69	77	39	77	85	28		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-419447/5
Matrix: Water
Analysis Batch: 419447

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			09/14/23 13:32	1
Benzene	1.0	U	1.0		ug/L			09/14/23 13:32	1
Chloroethane	1.0	U	1.0		ug/L			09/14/23 13:32	1
Ethylbenzene	1.0	U	1.0		ug/L			09/14/23 13:32	1
Toluene	1.0	U	1.0		ug/L			09/14/23 13:32	1
Vinyl chloride	1.0	U	1.0		ug/L			09/14/23 13:32	1
Xylenes, Total	1.0	U	1.0		ug/L			09/14/23 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*		*09/14/23 13:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*09/14/23 13:32*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 140*		*09/14/23 13:32*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*09/14/23 13:32*	*1*

Lab Sample ID: LCS 410-419447/1003
Matrix: Water
Analysis Batch: 419447

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethane			20.0	20.8		ug/L		104	70 - 130		
Benzene			20.0	19.0		ug/L		95	65 - 135		
Chloroethane			20.0	23.1		ug/L		116	40 - 160		
Ethylbenzene			20.0	19.9		ug/L		99	60 - 140		
Toluene			20.0	19.4		ug/L		97	70 - 130		
Vinyl chloride			20.0	19.8		ug/L		99	10 - 195		
Xylenes, Total			60.0	61.6		ug/L		103	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*105*		*60 - 140*

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

Lab Sample ID: MB 410-417649/1-A
Matrix: Water
Analysis Batch: 417908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 11:47	1
Acenaphthene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 11:47	1
Aniline	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 11:47	1
Fluorene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 11:47	1
Naphthalene	2.0	U	2.0		ug/L		09/09/23 07:51	09/11/23 11:47	1
Nitrobenzene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 11:47	1
Phenanthrene	5.0	U	5.0		ug/L		09/09/23 07:51	09/11/23 11:47	1

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

Lab Sample ID: MB 410-417649/1-A
Matrix: Water
Analysis Batch: 417908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417649

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*69*		*10 - 150*	*09/09/23 07:51*	*09/11/23 11:47*	*1*
2-Fluorobiphenyl (Surr)	*77*		*32 - 115*	*09/09/23 07:51*	*09/11/23 11:47*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 83*	*09/09/23 07:51*	*09/11/23 11:47*	*1*
Nitrobenzene-d5 (Surr)	*77*		*41 - 121*	*09/09/23 07:51*	*09/11/23 11:47*	*1*
p-Terphenyl-d14 (Surr)	*85*		*28 - 134*	*09/09/23 07:51*	*09/11/23 11:47*	*1*
Phenol-d5 (Surr)	*28*		*10 - 63*	*09/09/23 07:51*	*09/11/23 11:47*	*1*

Lab Sample ID: LCS 410-417649/2-A
Matrix: Water
Analysis Batch: 417908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	49.7		ug/L		99	50 - 114
Acenaphthene	50.0	52.4		ug/L		105	47 - 145
Aniline	50.0	42.0		ug/L		84	21 - 106
Fluorene	50.0	50.8		ug/L		102	59 - 121
Naphthalene	50.0	49.0		ug/L		98	21 - 133
Nitrobenzene	50.0	53.3		ug/L		107	35 - 180
Phenanthrene	50.0	52.7		ug/L		105	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*81*		*10 - 150*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*
2-Fluorophenol (Surr)	*52*		*10 - 83*
Nitrobenzene-d5 (Surr)	*81*		*41 - 121*
p-Terphenyl-d14 (Surr)	*90*		*28 - 134*
Phenol-d5 (Surr)	*38*		*10 - 63*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-417626/1-A
Matrix: Water
Analysis Batch: 418359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		09/09/23 02:00	09/11/23 23:40	1
Iron	50	U	50		ug/L		09/09/23 02:00	09/11/23 23:40	1
Manganese	2.0	U	2.0		ug/L		09/09/23 02:00	09/11/23 23:40	1

Lab Sample ID: LCS 410-417626/2-A
Matrix: Water
Analysis Batch: 418359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	480		ug/L		96	85 - 115
Iron	5000	4750		ug/L		95	85 - 115
Manganese	500	468		ug/L		94	85 - 115

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-417821/1
Matrix: Water
Analysis Batch: 417821

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			09/10/23 16:39	1

Lab Sample ID: LCS 410-417821/2
Matrix: Water
Analysis Batch: 417821

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			150	145		mg/L		97	89 - 105		

Lab Sample ID: 410-141802-2 DU
Matrix: Water
Analysis Batch: 417821

Client Sample ID: INF-090623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	70			71.8		mg/L				3	5

GC/MS VOA

Analysis Batch: 419447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-1	EFF-090623	Total/NA	Water	624.1	
410-141802-2	INF-090623	Total/NA	Water	624.1	
410-141802-3	Trip Blank	Total/NA	Water	624.1	
MB 410-419447/5	Method Blank	Total/NA	Water	624.1	
LCS 410-419447/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 417649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-1	EFF-090623	Total/NA	Water	625.1	
410-141802-2	INF-090623	Total/NA	Water	625.1	
410-141802-2 - DL	INF-090623	Total/NA	Water	625.1	
MB 410-417649/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-417649/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 417908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-1	EFF-090623	Total/NA	Water	625.1	417649
MB 410-417649/1-A	Method Blank	Total/NA	Water	625.1	417649
LCS 410-417649/2-A	Lab Control Sample	Total/NA	Water	625.1	417649

Analysis Batch: 418275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-2	INF-090623	Total/NA	Water	625.1	417649

Analysis Batch: 418669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-2 - DL	INF-090623	Total/NA	Water	625.1	417649

Metals

Prep Batch: 417626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-1	EFF-090623	Total/NA	Water	200.8 Rev 5.4	
410-141802-2	INF-090623	Total/NA	Water	200.8 Rev 5.4	
MB 410-417626/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-417626/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 418359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-1	EFF-090623	Total/NA	Water	200.8 Rev 5.4	417626
410-141802-2	INF-090623	Total/NA	Water	200.8 Rev 5.4	417626
MB 410-417626/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	417626
LCS 410-417626/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	417626

Analysis Batch: 418814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-1	EFF-090623	Total/NA	Water	200.8 Rev 5.4	417626
410-141802-2	INF-090623	Total/NA	Water	200.8 Rev 5.4	417626

QC Association Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

General Chemistry

Analysis Batch: 417821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-141802-1	EFF-090623	Total/NA	Water	2540D-2015	
410-141802-2	INF-090623	Total/NA	Water	2540D-2015	
MB 410-417821/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-417821/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-141802-2 DU	INF-090623	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Client Sample ID: EFF-090623

Lab Sample ID: 410-141802-1

Date Collected: 09/06/23 09:45

Matrix: Water

Date Received: 09/07/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	419447	UJML	ELLE	09/14/23 22:30
Total/NA	Prep	625.1			417649	QKX3	ELLE	09/09/23 07:51
Total/NA	Analysis	625.1		1	417908	SJ89	ELLE	09/11/23 18:45
Total/NA	Prep	200.8 Rev 5.4			417626	HUH3	ELLE	09/09/23 02:00
Total/NA	Analysis	200.8 Rev 5.4		1	418359	F7JF	ELLE	09/12/23 00:08
Total/NA	Prep	200.8 Rev 5.4			417626	HUH3	ELLE	09/09/23 02:00
Total/NA	Analysis	200.8 Rev 5.4		1	418814	LC3M	ELLE	09/12/23 22:46
Total/NA	Analysis	2540D-2015		1	417821	UOCA	ELLE	09/10/23 16:39 - 09/11/23 12:55 [1]

Client Sample ID: INF-090623

Lab Sample ID: 410-141802-2

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	419447	UJML	ELLE	09/14/23 22:07
Total/NA	Prep	625.1			417649	QKX3	ELLE	09/09/23 07:51
Total/NA	Analysis	625.1		1	418275	SJ89	ELLE	09/12/23 00:19
Total/NA	Prep	625.1	DL		417649	QKX3	ELLE	09/09/23 07:51
Total/NA	Analysis	625.1	DL	20	418669	SJ89	ELLE	09/12/23 22:35
Total/NA	Prep	200.8 Rev 5.4			417626	HUH3	ELLE	09/09/23 02:00
Total/NA	Analysis	200.8 Rev 5.4		1	418359	F7JF	ELLE	09/12/23 00:06
Total/NA	Prep	200.8 Rev 5.4			417626	HUH3	ELLE	09/09/23 02:00
Total/NA	Analysis	200.8 Rev 5.4		1	418814	LC3M	ELLE	09/12/23 22:44
Total/NA	Analysis	2540D-2015		1	417821	UOCA	ELLE	09/10/23 16:39 - 09/11/23 12:55 [1]

Client Sample ID: Trip Blank

Lab Sample ID: 410-141802-3

Date Collected: 09/06/23 10:00

Matrix: Water

Date Received: 09/07/23 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	419447	UJML	ELLE	09/14/23 21:43

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-141802-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-141802-1	EFF-090623	Water	09/06/23 09:45	09/07/23 10:26
410-141802-2	INF-090623	Water	09/06/23 10:00	09/07/23 10:26
410-141802-3	Trip Blank	Water	09/06/23 10:00	09/07/23 10:26

410-141802 Chain of Custody

ry Management Program LaMP Chain of Custody Record

Page ____ of ____

:t Name: Wellsville OU2 - Monthly SPDES | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ___ No X

y No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order: 72172	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor		No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS							Report Type & QC Level / Comments
	EFF-090623	9/6/2023	945		X			7	3		1	3			3	2	1	1								pH= 7 24
	INF-090623	9/6/2023	1000		X			7	3		1	3			3	2	1	1								pH= 6 85
	Trip blank	9/6/2023	1000		X			2				2														
	Temp blank	9/6/2023			X			1																		
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																									
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																									

Standard X
Full Data Package

Comments
Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	9/6/23	1200			
Shipment Method: FedEx Ship Date: 9/6/2023						
Shipment Tracking No: 817931502041						

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 1.1 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-141802-1

Login Number: 141802

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-141802-1

SDG No.:

Batch Number: 419447 | Batch Start Date: 09/14/23 12:11 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-419447/5		624.1		5 mL	5 mL				2711
410-141802-A-3	Trip Blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-141802-E-2	INF-090623	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-141802-E-1	EFF-090623	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-419447/1003		624.1		5 mL	5 mL				2711

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00009	MSV_LCS_2CEVE 00132	MSV_LCS_ACR 00018	MSV_LCS_Gases 00159	MSV_LCS_VOC#1 00129	
MB 410-419447/5		624.1		5 uL					
410-141802-A-3	Trip Blank	624.1	T	5 uL					
410-141802-E-2	INF-090623	624.1	T	5 uL					
410-141802-E-1	EFF-090623	624.1	T	5 uL					
LCS 410-419447/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-141802-1

SDG No.:

Batch Number: 417649 Batch Start Date: 09/09/23 07:51 Batch Analyst: Hall, Patrick

Batch Method: 625.1 Batch End Date: 09/09/23 14:41

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-417649/1		625.1, 625.1				n/a	250 mL	1.0 mL	n/a SU
LCS 410-417649/2		625.1, 625.1				n/a	250 mL	1.0 mL	n/a SU
410-141802-B-1	EFF-090623	625.1, 625.1	T	415.22 g	166.38 g	n/a	248.8 mL	1.0 mL	n/a SU
410-141802-B-2	INF-090623	625.1, 625.1	T	413.43 g	166.40 g	n/a	247 mL	1.0 mL	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_625_SS 00015	OP_MINLCS1_MS 00183	AnalysisComment
MB 410-417649/1		625.1, 625.1		>11 SU	<2 SU	n	0.25 mL		Tap H2O
LCS 410-417649/2		625.1, 625.1		>11 SU	<2 SU	n	0.25 mL	1 mL	Tap H2O
410-141802-B-1	EFF-090623	625.1, 625.1	T	>11 SU	<2 SU	n	0.25 mL		Pale Yellow Tint
410-141802-B-2	INF-090623	625.1, 625.1	T	>11 SU	<2 SU	n	0.25 mL		Orange Cloudy

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662
Analyst ID - Spike Analyst	PDH91662
Analyst ID - Spike Witness Analyst	PDH91662
Acid Used for pH Adjustment ID	H2SO4: 225894
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 63209
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23251A
Analyst ID - Concentration	PDH91662
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	23127523
Pipette Tip Lot ID	L208607R

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-141802-1

SDG No.:

Batch Number: 417649 | Batch Start Date: 09/09/23 07:51 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 09/09/23 14:41

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-141802-1

SDG No.:

Batch Number: 417626 | Batch Start Date: 09/11/23 06:55 | Batch Analyst: Dickens, Emily

Batch Method: 200.8 Rev 5.4 | Batch End Date: 09/11/23 12:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00030	MP_1:1HNO3 00046	MT_LCS-SPK-A 00029	MT_LCS-SPK-B 00028
MB 410-417626/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-417626/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-141802-H-2	INF-090623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-141802-H-1	EFF-090623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Hot Block ID	12
Thermometer ID	3811
Uncorrected Temperature	85 Celsius
Pipette ID	G20054G
Pipette Tip Lot ID	F169949R
Digestion Tube/Cup ID	2211204
Reflux Cap ID	2204135

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-141802-1

SDG No.:

Batch Number: 417821 | Batch Start Date: 09/10/23 16:39 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 | Batch End Date: 09/11/23 12:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-417821/1		2540D-2015		KWQ1R	0.1120 g	1000 mL	0.1119 g	-0.0001 g	1000 mL
LCS 410-417821/2		2540D-2015		KWQ1S	0.1149 g	1000 mL	0.2601 g	0.1452 g	1000 mL
410-141802-D-1	EFF-090623	2540D-2015	T	KWQ21	0.1134 g	1000 mL	0.1153 g	0.0019 g	1000 mL
410-141802-D-2	INF-090623	2540D-2015	T	KWQ22	0.1123 g	500 mL	0.1472 g	0.0349 g	1000 mL
410-141802-D-2 DU	INF-090623	2540D-2015	T	KWQ1E	0.1110 g	500 mL	0.1469 g	0.0359 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00051	AnalysisComment		
MB 410-417821/1		2540D-2015		0.1119 g	0.112 g				
LCS 410-417821/2		2540D-2015		0.2601 g	0.1149 g	0.1501 g	LCS NO. 1		
410-141802-D-1	EFF-090623	2540D-2015	T	0.1153 g	0.1134 g				
410-141802-D-2	INF-090623	2540D-2015	T	0.1472 g	0.1123 g		Part 250+250 Slow Filtration		
410-141802-D-2 DU	INF-090623	2540D-2015	T	0.1469 g	0.111 g		Part 250+250 Slow Filtration		

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600042-3223-R2
Balance ID	27504
Balance is Level? (Y/N)	yes
Oven ID	7492
Thermometer ID	1052
Date/Time - In	09/10/2023 20:49
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	09/11/2023 12:55
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-141802-1

SDG No.:

Batch Number: 417821 Batch Start Date: 09/10/23 16:39 Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 Batch End Date: 09/11/23 12:55

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 10/17/2023 12:37:49 AM

JOB DESCRIPTION

BP Wellsville, NY

JOB NUMBER

410-145533-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

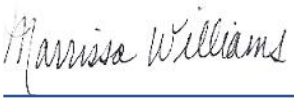
myEOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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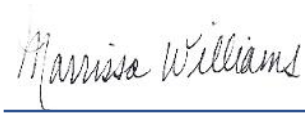

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

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: 410-145533-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-145533-1

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 10/4/2023 10:15 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 1.6°C

Receipt Exceptions
One or more containers for the following samples were received broken or leaking: EFF-100323 (410-145533-1), INF-100323 (410-145533-2) and Trip Blank (410-145533-3).

We received 1 TB with the bottom broken unable to save

GC/MS VOA
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: Surrogate recovery for the following sample was outside control limits: EFF-100323 (410-145533-1). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results.

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

Client Sample ID: EFF-100323 — Lab Sample ID: 410-145533-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	660		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3700	^2	2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	1.7		0.030		mg/L	1		2540D-2015	Total/NA

Client Sample ID: INF-100323 — Lab Sample ID: 410-145533-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	1.1		1.0		ug/L	1		624.1	Total/NA
Toluene	2.1		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	2.8		1.0		ug/L	1		624.1	Total/NA
Nitrobenzene	18		5.0		ug/L	1		625.1	Total/NA
Aniline - DL	170		50		ug/L	10		625.1	Total/NA
Arsenic	99		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	32000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	47000		200		ug/L	100		200.8 Rev 5.4	Total/NA
Total Suspended Solids	40		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-145533-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-100323

Lab Sample ID: 410-145533-1

Date Collected: 10/03/23 10:20

Matrix: Water

Date Received: 10/04/23 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/05/23 17:51	1
Benzene	1.0	U	1.0		ug/L			10/05/23 17:51	1
Chloroethane	1.0	U	1.0		ug/L			10/05/23 17:51	1
Ethylbenzene	1.0	U	1.0		ug/L			10/05/23 17:51	1
Toluene	1.0	U	1.0		ug/L			10/05/23 17:51	1
Vinyl chloride	1.0	U	1.0		ug/L			10/05/23 17:51	1
Xylenes, Total	1.0	U	1.0		ug/L			10/05/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*10/05/23 17:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*60 - 140*		*10/05/23 17:51*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 140*		*10/05/23 17:51*	*1*
Toluene-d8 (Surr)	*103*		*60 - 140*		*10/05/23 17:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.1	U cn	5.1		ug/L		10/09/23 07:28	10/10/23 10:00	1
Acenaphthene	5.1	U cn	5.1		ug/L		10/09/23 07:28	10/10/23 10:00	1
Aniline	5.1	U cn	5.1		ug/L		10/09/23 07:28	10/10/23 10:00	1
Fluorene	5.1	U cn	5.1		ug/L		10/09/23 07:28	10/10/23 10:00	1
Naphthalene	2.0	U cn	2.0		ug/L		10/09/23 07:28	10/10/23 10:00	1
Nitrobenzene	5.1	U cn	5.1		ug/L		10/09/23 07:28	10/10/23 10:00	1
Phenanthrene	5.1	U cn	5.1		ug/L		10/09/23 07:28	10/10/23 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*	*cn*	*10 - 150*	*10/09/23 07:28*	*10/10/23 10:00*	*1*
2-Fluorobiphenyl (Surr)	*69*	*cn*	*32 - 115*	*10/09/23 07:28*	*10/10/23 10:00*	*1*
2-Fluorophenol (Surr)	*40*	*cn*	*10 - 83*	*10/09/23 07:28*	*10/10/23 10:00*	*1*
Nitrobenzene-d5 (Surr)	*65*	*cn*	*41 - 121*	*10/09/23 07:28*	*10/10/23 10:00*	*1*
p-Terphenyl-d14 (Surr)	*27*	*S1- cn*	*28 - 134*	*10/09/23 07:28*	*10/10/23 10:00*	*1*
Phenol-d5 (Surr)	*27*	*cn*	*10 - 63*	*10/09/23 07:28*	*10/10/23 10:00*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.2**		2.0		ug/L		10/06/23 17:23	10/16/23 09:53	1
Iron	**660**		50		ug/L		10/06/23 17:23	10/16/23 09:53	1
Manganese	**3700**	**^2**	2.0		ug/L		10/06/23 17:23	10/16/23 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**1.7**		0.030		mg/L			10/05/23 11:11	1

Client Sample ID: INF-100323

Lab Sample ID: 410-145533-2

Date Collected: 10/03/23 10:35

Matrix: Water

Date Received: 10/04/23 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/05/23 18:15	1
Benzene	**7.8**		1.0		ug/L			10/05/23 18:15	1

Client Sample ID: INF-100323
Date Collected: 10/03/23 10:35
Date Received: 10/04/23 10:15

Lab Sample ID: 410-145533-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			10/05/23 18:15	1
Ethylbenzene	**1.1**		1.0		ug/L			10/05/23 18:15	1
Toluene	**2.1**		1.0		ug/L			10/05/23 18:15	1
Vinyl chloride	1.0	U	1.0		ug/L			10/05/23 18:15	1
Xylenes, Total	**2.8**		1.0		ug/L			10/05/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*10/05/23 18:15*	*1*
4-Bromofluorobenzene (Surr)	*112*		*60 - 140*		*10/05/23 18:15*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 140*		*10/05/23 18:15*	*1*
Toluene-d8 (Surr)	*108*		*60 - 140*		*10/05/23 18:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 10:22	1
Acenaphthene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 10:22	1
Fluorene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 10:22	1
Naphthalene	2.0	U	2.0		ug/L		10/09/23 07:28	10/10/23 10:22	1
Nitrobenzene	**18**		5.0		ug/L		10/09/23 07:28	10/10/23 10:22	1
Phenanthrene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*10 - 150*	*10/09/23 07:28*	*10/10/23 10:22*	*1*
2-Fluorobiphenyl (Surr)	*73*		*32 - 115*	*10/09/23 07:28*	*10/10/23 10:22*	*1*
2-Fluorophenol (Surr)	*8*	*S1-*	*10 - 83*	*10/09/23 07:28*	*10/10/23 10:22*	*1*
Nitrobenzene-d5 (Surr)	*65*		*41 - 121*	*10/09/23 07:28*	*10/10/23 10:22*	*1*
p-Terphenyl-d14 (Surr)	*55*		*28 - 134*	*10/09/23 07:28*	*10/10/23 10:22*	*1*
Phenol-d5 (Surr)	*14*		*10 - 63*	*10/09/23 07:28*	*10/10/23 10:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**170**		50		ug/L		10/09/23 07:28	10/11/23 12:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*48*		*10 - 150*	*10/09/23 07:28*	*10/11/23 12:15*	*10*
2-Fluorobiphenyl (Surr)	*73*		*32 - 115*	*10/09/23 07:28*	*10/11/23 12:15*	*10*
2-Fluorophenol (Surr)	*7*	*S1-*	*10 - 83*	*10/09/23 07:28*	*10/11/23 12:15*	*10*
Nitrobenzene-d5 (Surr)	*66*		*41 - 121*	*10/09/23 07:28*	*10/11/23 12:15*	*10*
p-Terphenyl-d14 (Surr)	*54*		*28 - 134*	*10/09/23 07:28*	*10/11/23 12:15*	*10*
Phenol-d5 (Surr)	*11*		*10 - 63*	*10/09/23 07:28*	*10/11/23 12:15*	*10*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**99**		2.0		ug/L		10/06/23 17:23	10/16/23 09:55	1
Iron	**32000**		50		ug/L		10/06/23 17:23	10/16/23 09:55	1
Manganese	**47000**		200		ug/L		10/06/23 17:23	10/16/23 20:49	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**40**		6.0		mg/L			10/09/23 22:27	1

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

Client Sample ID: Trip Blank
Date Collected: 10/03/23 10:35
Date Received: 10/04/23 10:15

Lab Sample ID: 410-145533-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/05/23 17:26	1
Benzene	1.0	U	1.0		ug/L			10/05/23 17:26	1
Chloroethane	1.0	U	1.0		ug/L			10/05/23 17:26	1
Ethylbenzene	1.0	U	1.0		ug/L			10/05/23 17:26	1
Toluene	1.0	U	1.0		ug/L			10/05/23 17:26	1
Vinyl chloride	1.0	U	1.0		ug/L			10/05/23 17:26	1
Xylenes, Total	1.0	U	1.0		ug/L			10/05/23 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*		*10/05/23 17:26*	*1*
4-Bromofluorobenzene (Surr)	*103*		*60 - 140*		*10/05/23 17:26*	*1*
Dibromofluoromethane (Surr)	*112*		*60 - 140*		*10/05/23 17:26*	*1*
Toluene-d8 (Surr)	*102*		*60 - 140*		*10/05/23 17:26*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)				
410-145533-1	EFF-100323	113	106	112	103				
410-145533-2	INF-100323	106	112	97	108				
410-145533-3	Trip Blank	115	103	112	102				
LCS 410-427820/1003	Lab Control Sample	108	104	103	107				
MB 410-427820/5	Method Blank	114	107	110	101				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)		
410-145533-1	EFF-100323	78 cn	69 cn	40 cn	65 cn	27 S1- cn	27 cn		
410-145533-2	INF-100323	63	73	8 S1-	65	55	14		
410-145533-2 - DL	INF-100323	48	73	7 S1-	66	54	11		
LCS 410-428827/2-A	Lab Control Sample	88	68	44	61	90	35		
MB 410-428827/1-A	Method Blank	72	73	44	70	100	32		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-427820/5
Matrix: Water
Analysis Batch: 427820

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			10/05/23 12:23	1
Benzene	1.0	U	1.0		ug/L			10/05/23 12:23	1
Chloroethane	1.0	U	1.0		ug/L			10/05/23 12:23	1
Ethylbenzene	1.0	U	1.0		ug/L			10/05/23 12:23	1
Toluene	1.0	U	1.0		ug/L			10/05/23 12:23	1
Vinyl chloride	1.0	U	1.0		ug/L			10/05/23 12:23	1
Xylenes, Total	1.0	U	1.0		ug/L			10/05/23 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*10/05/23 12:23*	*1*
4-Bromofluorobenzene (Surr)	*107*		*60 - 140*		*10/05/23 12:23*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*		*10/05/23 12:23*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*10/05/23 12:23*	*1*

Lab Sample ID: LCS 410-427820/1003
Matrix: Water
Analysis Batch: 427820

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethane			20.0	24.8		ug/L		124	70 - 130		
Benzene			20.0	23.4		ug/L		117	65 - 135		
Chloroethane			20.0	24.0		ug/L		120	40 - 160		
Ethylbenzene			20.0	20.9		ug/L		105	60 - 140		
Toluene			20.0	22.0		ug/L		110	70 - 130		
Vinyl chloride			20.0	23.2		ug/L		116	10 - 195		
Xylenes, Total			60.0	62.8		ug/L		105	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*
4-Bromofluorobenzene (Surr)	*104*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*107*		*60 - 140*

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

Lab Sample ID: MB 410-428827/1-A
Matrix: Water
Analysis Batch: 429292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 09:16	1
Acenaphthene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 09:16	1
Aniline	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 09:16	1
Fluorene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 09:16	1
Naphthalene	2.0	U	2.0		ug/L		10/09/23 07:28	10/10/23 09:16	1
Nitrobenzene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 09:16	1
Phenanthrene	5.0	U	5.0		ug/L		10/09/23 07:28	10/10/23 09:16	1

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

Lab Sample ID: MB 410-428827/1-A
Matrix: Water
Analysis Batch: 429292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428827

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		10 - 150	10/09/23 07:28	10/10/23 09:16	1
2-Fluorobiphenyl (Surr)	73		32 - 115	10/09/23 07:28	10/10/23 09:16	1
2-Fluorophenol (Surr)	44		10 - 83	10/09/23 07:28	10/10/23 09:16	1
Nitrobenzene-d5 (Surr)	70		41 - 121	10/09/23 07:28	10/10/23 09:16	1
p-Terphenyl-d14 (Surr)	100		28 - 134	10/09/23 07:28	10/10/23 09:16	1
Phenol-d5 (Surr)	32		10 - 63	10/09/23 07:28	10/10/23 09:16	1

Lab Sample ID: LCS 410-428827/2-A
Matrix: Water
Analysis Batch: 429292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	38.9		ug/L		78	50 - 114
Acenaphthene	50.0	42.9		ug/L		86	47 - 145
Aniline	50.0	29.5		ug/L		59	21 - 106
Fluorene	50.0	47.6		ug/L		95	59 - 121
Naphthalene	50.0	37.1		ug/L		74	21 - 133
Nitrobenzene	50.0	38.4		ug/L		77	35 - 180
Phenanthrene	50.0	46.8		ug/L		94	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		10 - 150
2-Fluorobiphenyl (Surr)	68		32 - 115
2-Fluorophenol (Surr)	44		10 - 83
Nitrobenzene-d5 (Surr)	61		41 - 121
p-Terphenyl-d14 (Surr)	90		28 - 134
Phenol-d5 (Surr)	35		10 - 63

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-428490/1-A
Matrix: Water
Analysis Batch: 431738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		10/06/23 17:23	10/16/23 09:31	1
Iron	50	U	50		ug/L		10/06/23 17:23	10/16/23 09:31	1
Manganese	2.0	U	2.0		ug/L		10/06/23 17:23	10/16/23 09:31	1

Lab Sample ID: LCS 410-428490/2-A
Matrix: Water
Analysis Batch: 431738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	516		ug/L		103	85 - 115
Iron	5000	5020		ug/L		100	85 - 115
Manganese	500	499		ug/L		100	85 - 115

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-427832/1
Matrix: Water
Analysis Batch: 427832

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	0.030	U	0.030		mg/L			10/05/23 11:11	1

Lab Sample ID: LCS 410-427832/2
Matrix: Water
Analysis Batch: 427832

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	145		mg/L		96	89 - 105

Lab Sample ID: MB 410-429206/1
Matrix: Water
Analysis Batch: 429206

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			10/09/23 22:27	1

Lab Sample ID: LCS 410-429206/2
Matrix: Water
Analysis Batch: 429206

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	146		mg/L		97	89 - 105

Lab Sample ID: 410-145533-2 DU
Matrix: Water
Analysis Batch: 429206

Client Sample ID: INF-100323
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	40		54.2	F3	mg/L		30	5

GC/MS VOA

Analysis Batch: 427820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-1	EFF-100323	Total/NA	Water	624.1	
410-145533-2	INF-100323	Total/NA	Water	624.1	
410-145533-3	Trip Blank	Total/NA	Water	624.1	
MB 410-427820/5	Method Blank	Total/NA	Water	624.1	
LCS 410-427820/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 428827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-1	EFF-100323	Total/NA	Water	625.1	
410-145533-2 - DL	INF-100323	Total/NA	Water	625.1	
410-145533-2	INF-100323	Total/NA	Water	625.1	
MB 410-428827/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-428827/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 429292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-1	EFF-100323	Total/NA	Water	625.1	428827
410-145533-2	INF-100323	Total/NA	Water	625.1	428827
MB 410-428827/1-A	Method Blank	Total/NA	Water	625.1	428827
LCS 410-428827/2-A	Lab Control Sample	Total/NA	Water	625.1	428827

Analysis Batch: 429881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-2 - DL	INF-100323	Total/NA	Water	625.1	428827

Metals

Prep Batch: 428490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-1	EFF-100323	Total/NA	Water	200.8 Rev 5.4	
410-145533-2	INF-100323	Total/NA	Water	200.8 Rev 5.4	
MB 410-428490/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-428490/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 431738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-1	EFF-100323	Total/NA	Water	200.8 Rev 5.4	428490
410-145533-2	INF-100323	Total/NA	Water	200.8 Rev 5.4	428490
MB 410-428490/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	428490
LCS 410-428490/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	428490

Analysis Batch: 431946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-2	INF-100323	Total/NA	Water	200.8 Rev 5.4	428490

General Chemistry

Analysis Batch: 427832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-1	EFF-100323	Total/NA	Water	2540D-2015	

General Chemistry (Continued)

Analysis Batch: 427832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-427832/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-427832/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 429206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-145533-2	INF-100323	Total/NA	Water	2540D-2015	
MB 410-429206/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-429206/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-145533-2 DU	INF-100323	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

Client Sample ID: EFF-100323

Lab Sample ID: 410-145533-1

Date Collected: 10/03/23 10:20

Matrix: Water

Date Received: 10/04/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	427820	UJML	ELLE	10/05/23 17:51
Total/NA	Prep	625.1			428827	QKX3	ELLE	10/09/23 07:28
Total/NA	Analysis	625.1		1	429292	SJ89	ELLE	10/10/23 10:00
Total/NA	Prep	200.8 Rev 5.4			428490	UAMX	ELLE	10/06/23 17:23
Total/NA	Analysis	200.8 Rev 5.4		1	431738	F7JF	ELLE	10/16/23 09:53
Total/NA	Analysis	2540D-2015		1	427832	M98K	ELLE	10/05/23 11:11 - 10/06/23 06:00 [1]

Client Sample ID: INF-100323

Lab Sample ID: 410-145533-2

Date Collected: 10/03/23 10:35

Matrix: Water

Date Received: 10/04/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	427820	UJML	ELLE	10/05/23 18:15
Total/NA	Prep	625.1			428827	QKX3	ELLE	10/09/23 07:28
Total/NA	Analysis	625.1		1	429292	SJ89	ELLE	10/10/23 10:22
Total/NA	Prep	625.1	DL		428827	QKX3	ELLE	10/09/23 07:28
Total/NA	Analysis	625.1	DL	10	429881	SJ89	ELLE	10/11/23 12:15
Total/NA	Prep	200.8 Rev 5.4			428490	UAMX	ELLE	10/06/23 17:23
Total/NA	Analysis	200.8 Rev 5.4		100	431946	UCIG	ELLE	10/16/23 20:49
Total/NA	Prep	200.8 Rev 5.4			428490	UAMX	ELLE	10/06/23 17:23
Total/NA	Analysis	200.8 Rev 5.4		1	431738	F7JF	ELLE	10/16/23 09:55
Total/NA	Analysis	2540D-2015		1	429206	UOCA	ELLE	10/09/23 22:27 - 10/10/23 18:30 [1]

Client Sample ID: Trip Blank

Lab Sample ID: 410-145533-3

Date Collected: 10/03/23 10:35

Matrix: Water

Date Received: 10/04/23 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	427820	UJML	ELLE	10/05/23 17:26

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-145533-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-145533-1	EFF-100323	Water	10/03/23 10:20	10/04/23 10:15
410-145533-2	INF-100323	Water	10/03/23 10:35	10/04/23 10:15
410-145533-3	Trip Blank	Water	10/03/23 10:35	10/04/23 10:15

410-145533 Chain of Custody

boratory Management Program LaMP Chain of Custody Record

ARC Project Name: Wellsville OU2 - Monthly SPDES | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ___ No X

ARC Facility No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72173	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer

EBM Phone: 281-800-7868

EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS						Report Type & QC Level / Comments
	EFF-100323	10/3/2023	1020		X			7	3		1	3			3	2	1	1							pH= 7.21
	INF-100323	10/3/2023	1035		X			7	3		1	3			3	2	1	1							pH= 6.84
	Trip blank	10/3/2023	1035		X			2				2													
	Temp blank	10/3/2023			X			1																	
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																								
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																								

Report Type & QC Level: Standard X; Full Data Package

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	10/3/23	1200			
Shipment Method: FedEx Ship Date: 10/3/2023	on-site					
Shipment Tracking No: 817931492893					10/4/23	1015

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

R: 1.6

BP/ARC LaMP COC Rev. 6 01/01/2009

10/17/2023

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-145533-1

Login Number: 145533

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers received broken. No volume could be salvaged for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-145533-1

SDG No.:

Batch Number: 427820 | Batch Start Date: 10/05/23 11:00 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-427820/5		624.1		5 mL	5 mL				2711
410-145533-A-3	Trip Blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-145533-E-1	EFF-100323	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-145533-E-2	INF-100323	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-427820/1003		624.1		5 mL	5 mL				2711

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00009	MSV_LCS_2CEVE 00135	MSV_LCS_ACR 00019	MSV_LCS_Gases 00162	MSV_LCS_VOC#1 00132	
MB 410-427820/5		624.1		5 uL					
410-145533-A-3	Trip Blank	624.1	T	5 uL					
410-145533-E-1	EFF-100323	624.1	T	5 uL					
410-145533-E-2	INF-100323	624.1	T	5 uL					
LCS 410-427820/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-145533-1

SDG No.:

Batch Number: 428827 | Batch Start Date: 10/09/23 07:28 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 10/09/23 12:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-428827/1		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCS 410-428827/2		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
410-145533-B-1	EFF-100323	625.1, 625.1	T	413.07 g	165.61 g	247.5 mL	1.0 mL	n/a SU	>11 SU
410-145533-B-2	INF-100323	625.1, 625.1	T	413.68 g	165.67 g	248 mL	1.0 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00015	OP_MINLCS1_MS 00187	AnalysisComment	
MB 410-428827/1		625.1, 625.1		<2 SU	n SU	0.25 mL		Tap H2O	
LCS 410-428827/2		625.1, 625.1		<2 SU	n SU	0.25 mL	1 mL	Tap H2O	
410-145533-B-1	EFF-100323	625.1, 625.1	T	<2 SU	n SU	0.25 mL		Clear	
410-145533-B-2	INF-100323	625.1, 625.1	T	<2 SU	n SU	0.25 mL		Yellow Tint	

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, HAS95678, KMK81424
Analyst ID - Spike Analyst	PDH91662, HAS95678, KMK81424
Acid Used for pH Adjustment ID	H2SO4: 225894
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 63209
Prep Solvent Volume Used	90 mL
Extraction 1 Start Time	10/09/2023 09:07
Extraction 1 End Time	10/09/2023 10:14
Na2SO4 ID	23281A
Analyst ID - Concentration	PDH91662, HAS95678, KMK81424
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	23164202
Pipette Tip Lot ID	L208607R

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-145533-1

SDG No.:

Batch Number: 428827 Batch Start Date: 10/09/23 07:28 Batch Analyst: Hall, Patrick

Batch Method: 625.1 Batch End Date: 10/09/23 12:50

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-145533-1

SDG No.:

Batch Number: 428490 | Batch Start Date: 10/08/23 20:00 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 | Batch End Date: 10/09/23 00:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00031	MP_1:1HNO3 00048	MT_LCS-SPK-A 00028	MT_LCS-SPK-B 00027
MB 410-428490/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-428490/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-145533-H-1	EFF-100323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-145533-H-2	INF-100323	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Hot Block ID	10
Thermometer ID	3811
Uncorrected Temperature	85 Celsius
Pipette ID	G20054G
Pipette Tip Lot ID	F16694R
Digestion Tube/Cup ID	2211204
Reflux Cap ID	2204135

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-145533-1

SDG No.:

Batch Number: 427832 | Batch Start Date: 10/05/23 11:11 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 10/06/23 06:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-427832/1		2540D-2015		KWN5U	0.1176 g	1000 mL	0.1175 g	-0.0001 g	10 mL
LCS 410-427832/2		2540D-2015		KWN3Q	0.1146 g	1000 mL	0.2596 g	0.1450 g	10 mL
410-145533-D-1	EFF-100323	2540D-2015	T	KWN4C	0.1137 g	1000 mL	0.1154 g	0.0017 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00053	AnalysisComment		
MB 410-427832/1		2540D-2015		0.1175 g	0.1176 g				
LCS 410-427832/2		2540D-2015		0.2596 g	0.1146 g	0.1505 g	vial 17 0.1505		
410-145533-D-1	EFF-100323	2540D-2015	T	0.1154 g	0.1137 g				

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	10 mL
Filter ID	600043-3222-r1
Balance ID	27505
Balance is Level? (Y/N)	yes
Oven ID	9966
Thermometer ID	1020
Date/Time - In	10/05/2023 11:42
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	10/06/2023 06:00
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-145533-1

SDG No.:

Batch Number: 429206 | Batch Start Date: 10/09/23 22:27 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 | Batch End Date: 10/10/23 18:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-429206/1		2540D-2015		i50BM	0.1156 g	1000 mL	0.1160 g	0.0004 g	1000 mL
LCS 410-429206/2		2540D-2015		i50BP	0.1112 g	1000 mL	0.2567 g	0.1455 g	1000 mL
410-145533-D-2	INF-100323	2540D-2015	T	i50CH	0.1101 g	500 mL	0.1301 g	0.0200 g	1000 mL
410-145533-D-2 DU	INF-100323	2540D-2015	T	i50CI	0.1146 g	500 mL	0.1417 g	0.0271 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00054	AnalysisComment		
MB 410-429206/1		2540D-2015		0.116 g	0.1156 g				
LCS 410-429206/2		2540D-2015		0.2567 g	0.1112 g	0.1501 g	Lcs N0.12		
410-145533-D-2	INF-100323	2540D-2015	T	0.1301 g	0.1101 g		Part 250+100+150, Slow Filtration, Sediment, Cloudy		
410-145533-D-2 DU	INF-100323	2540D-2015	T	0.1417 g	0.1146 g		Part 250+100+150, Slow Filtration, Sediment, Cloudy		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-145533-1

SDG No.:

Batch Number: 429206 | Batch Start Date: 10/09/23 22:27 | Batch Analyst: Arosemena, Olivia C

Batch Method: 2540D-2015 | Batch End Date: 10/10/23 18:30

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600042-3222-R1
Balance ID	27504
Balance is Level? (Y/N)	yes
Oven ID	7492
Thermometer ID	1052
Date/Time - In	10/09/2023 22:27
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	10/10/2023 18:30
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 11/21/2023 8:29:22 AM

JOB DESCRIPTION

BP Wellsville, NY

JOB NUMBER

410-150184-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

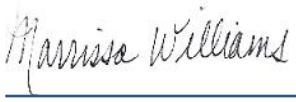
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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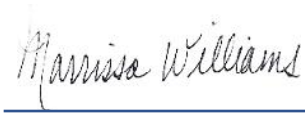

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Client: On-Site Health and Safety
Job ID: 410-150184-1
Project/Site: BP Wellsville, NY

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Case Narrative

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

Job ID: 410-150184-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-150184-1

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 11/7/2023 10:00 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 1.7°C

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

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

Client Sample ID: EFF-110623 — Lab Sample ID: 410-150184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	210		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	1800		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-110623 — Lab Sample ID: 410-150184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.6		1.0		ug/L	1		624.1	Total/NA
Ethylbenzene	1.1		1.0		ug/L	1		624.1	Total/NA
Toluene	2.1		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	3.5		1.0		ug/L	1		624.1	Total/NA
Aniline	78		5.0		ug/L	1		625.1	Total/NA
Nitrobenzene	17		5.0		ug/L	1		625.1	Total/NA
Arsenic	64		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	29000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	5300		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	44		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank-110623 — Lab Sample ID: 410-150184-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-110623

Lab Sample ID: 410-150184-1

Date Collected: 11/06/23 10:30

Matrix: Water

Date Received: 11/07/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/09/23 04:50	1
Benzene	1.0	U	1.0		ug/L			11/09/23 04:50	1
Chloroethane	1.0	U	1.0		ug/L			11/09/23 04:50	1
Ethylbenzene	1.0	U	1.0		ug/L			11/09/23 04:50	1
Toluene	1.0	U	1.0		ug/L			11/09/23 04:50	1
Vinyl chloride	1.0	U	1.0		ug/L			11/09/23 04:50	1
Xylenes, Total	1.0	U	1.0		ug/L			11/09/23 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*11/09/23 04:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*11/09/23 04:50*	*1*
Dibromofluoromethane (Surr)	*118*		*60 - 140*		*11/09/23 04:50*	*1*
Toluene-d8 (Surr)	*98*		*60 - 140*		*11/09/23 04:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:14	1
Acenaphthene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:14	1
Aniline	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:14	1
Fluorene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:14	1
Naphthalene	2.0	U	2.0		ug/L		11/09/23 07:39	11/10/23 01:14	1
Nitrobenzene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:14	1
Phenanthrene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 150*	*11/09/23 07:39*	*11/10/23 01:14*	*1*
2-Fluorobiphenyl (Surr)	*82*		*32 - 115*	*11/09/23 07:39*	*11/10/23 01:14*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 83*	*11/09/23 07:39*	*11/10/23 01:14*	*1*
Nitrobenzene-d5 (Surr)	*74*		*41 - 121*	*11/09/23 07:39*	*11/10/23 01:14*	*1*
p-Terphenyl-d14 (Surr)	*68*		*28 - 134*	*11/09/23 07:39*	*11/10/23 01:14*	*1*
Phenol-d5 (Surr)	*29*		*10 - 63*	*11/09/23 07:39*	*11/10/23 01:14*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		11/14/23 05:25	11/17/23 11:11	1
Iron	**210**		50		ug/L		11/14/23 05:25	11/17/23 11:11	1
Manganese	**1800**		2.0		ug/L		11/14/23 05:25	11/17/23 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			11/09/23 09:24	1

Client Sample ID: INF-110623

Lab Sample ID: 410-150184-2

Date Collected: 11/06/23 10:45

Matrix: Water

Date Received: 11/07/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/09/23 05:12	1
Benzene	**6.6**		1.0		ug/L			11/09/23 05:12	1

Client Sample ID: INF-110623

Lab Sample ID: 410-150184-2

Date Collected: 11/06/23 10:45

Matrix: Water

Date Received: 11/07/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			11/09/23 05:12	1
Ethylbenzene	**1.1**		1.0		ug/L			11/09/23 05:12	1
Toluene	**2.1**		1.0		ug/L			11/09/23 05:12	1
Vinyl chloride	1.0	U	1.0		ug/L			11/09/23 05:12	1
Xylenes, Total	**3.5**		1.0		ug/L			11/09/23 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*11/09/23 05:12*	*1*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*11/09/23 05:12*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*		*11/09/23 05:12*	*1*
Toluene-d8 (Surr)	*107*		*60 - 140*		*11/09/23 05:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:36	1
Acenaphthene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:36	1
Aniline	**78**		5.0		ug/L		11/09/23 07:39	11/10/23 01:36	1
Fluorene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:36	1
Naphthalene	2.0	U	2.0		ug/L		11/09/23 07:39	11/10/23 01:36	1
Nitrobenzene	**17**		5.0		ug/L		11/09/23 07:39	11/10/23 01:36	1
Phenanthrene	5.0	U	5.0		ug/L		11/09/23 07:39	11/10/23 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*12*		*10 - 150*	*11/09/23 07:39*	*11/10/23 01:36*	*1*
2-Fluorobiphenyl (Surr)	*77*		*32 - 115*	*11/09/23 07:39*	*11/10/23 01:36*	*1*
2-Fluorophenol (Surr)	*2*	*S1-*	*10 - 83*	*11/09/23 07:39*	*11/10/23 01:36*	*1*
Nitrobenzene-d5 (Surr)	*66*		*41 - 121*	*11/09/23 07:39*	*11/10/23 01:36*	*1*
p-Terphenyl-d14 (Surr)	*59*		*28 - 134*	*11/09/23 07:39*	*11/10/23 01:36*	*1*
Phenol-d5 (Surr)	*5*	*S1-*	*10 - 63*	*11/09/23 07:39*	*11/10/23 01:36*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**64**		2.0		ug/L		11/14/23 05:25	11/17/23 11:09	1
Iron	**29000**		50		ug/L		11/14/23 05:25	11/17/23 11:09	1
Manganese	**5300**		20		ug/L		11/14/23 05:25	11/20/23 08:37	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**44**		6.0		mg/L			11/08/23 11:21	1

Client Sample ID: Trip Blank-110623

Lab Sample ID: 410-150184-3

Date Collected: 11/06/23 10:45

Matrix: Water

Date Received: 11/07/23 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/15/23 16:43	1
Benzene	1.0	U	1.0		ug/L			11/15/23 16:43	1
Chloroethane	1.0	U	1.0		ug/L			11/15/23 16:43	1
Ethylbenzene	1.0	U	1.0		ug/L			11/15/23 16:43	1

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

Client Sample ID: Trip Blank-110623
Date Collected: 11/06/23 10:45
Date Received: 11/07/23 10:00

Lab Sample ID: 410-150184-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0		ug/L			11/15/23 16:43	1
Vinyl chloride	1.0	U	1.0		ug/L			11/15/23 16:43	1
Xylenes, Total	1.0	U	1.0		ug/L			11/15/23 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*11/15/23 16:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*11/15/23 16:43*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 140*		*11/15/23 16:43*	*1*
Toluene-d8 (Surr)	*106*		*60 - 140*		*11/15/23 16:43*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)				
410-150184-1	EFF-110623	114	93	118	98				
410-150184-2	INF-110623	102	102	107	107				
410-150184-3	Trip Blank-110623	113	94	115	106				
LCS 410-441107/1003	Lab Control Sample	103	96	107	104				
LCS 410-443739/1003	Lab Control Sample	106	96	106	112				
MB 410-441107/5	Method Blank	108	95	114	98				
MB 410-443739/5	Method Blank	110	94	114	104				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)		
410-150184-1	EFF-110623	68	82	43	74	68	29		
410-150184-2	INF-110623	12	77	2 S1-	66	59	5 S1-		
LCS 410-441373/2-A	Lab Control Sample	96	76	49	73	89	38		
LCSD 410-441373/3-A	Lab Control Sample Dup	85	76	49	73	83	38		
MB 410-441373/1-A	Method Blank	81	76	47	74	83	33		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-441107/5
Matrix: Water
Analysis Batch: 441107

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/08/23 22:06	1
Benzene	1.0	U	1.0		ug/L			11/08/23 22:06	1
Chloroethane	1.0	U	1.0		ug/L			11/08/23 22:06	1
Ethylbenzene	1.0	U	1.0		ug/L			11/08/23 22:06	1
Toluene	1.0	U	1.0		ug/L			11/08/23 22:06	1
Vinyl chloride	1.0	U	1.0		ug/L			11/08/23 22:06	1
Xylenes, Total	1.0	U	1.0		ug/L			11/08/23 22:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*11/08/23 22:06*	*1*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*		*11/08/23 22:06*	*1*
Dibromofluoromethane (Surr)	*114*		*60 - 140*		*11/08/23 22:06*	*1*
Toluene-d8 (Surr)	*98*		*60 - 140*		*11/08/23 22:06*	*1*

Lab Sample ID: LCS 410-441107/1003
Matrix: Water
Analysis Batch: 441107

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethane			20.0	18.5		ug/L		92	70 - 130		
Benzene			20.0	20.2		ug/L		101	65 - 135		
Chloroethane			20.0	21.2		ug/L		106	40 - 160		
Ethylbenzene			20.0	20.1		ug/L		100	60 - 140		
Toluene			20.0	20.1		ug/L		100	70 - 130		
Vinyl chloride			20.0	19.2		ug/L		96	10 - 195		
Xylenes, Total			60.0	60.1		ug/L		100	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*
Dibromofluoromethane (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*104*		*60 - 140*

Lab Sample ID: MB 410-443739/5
Matrix: Water
Analysis Batch: 443739

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			11/15/23 13:43	1
Benzene	1.0	U	1.0		ug/L			11/15/23 13:43	1
Chloroethane	1.0	U	1.0		ug/L			11/15/23 13:43	1
Ethylbenzene	1.0	U	1.0		ug/L			11/15/23 13:43	1
Toluene	1.0	U	1.0		ug/L			11/15/23 13:43	1
Vinyl chloride	1.0	U	1.0		ug/L			11/15/23 13:43	1
Xylenes, Total	1.0	U	1.0		ug/L			11/15/23 13:43	1

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

Lab Sample ID: MB 410-443739/5
Matrix: Water
Analysis Batch: 443739

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		60 - 140		11/15/23 13:43	1
4-Bromofluorobenzene (Surr)	94		60 - 140		11/15/23 13:43	1
Dibromofluoromethane (Surr)	114		60 - 140		11/15/23 13:43	1
Toluene-d8 (Surr)	104		60 - 140		11/15/23 13:43	1

Lab Sample ID: LCS 410-443739/1003
Matrix: Water
Analysis Batch: 443739

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	22.3		ug/L		112	70 - 130
Benzene	20.0	19.1		ug/L		95	65 - 135
Chloroethane	20.0	20.6		ug/L		103	40 - 160
Ethylbenzene	20.0	20.2		ug/L		101	60 - 140
Toluene	20.0	20.1		ug/L		101	70 - 130
Vinyl chloride	20.0	18.6		ug/L		93	10 - 195
Xylenes, Total	60.0	60.5		ug/L		101	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		60 - 140
4-Bromofluorobenzene (Surr)	96		60 - 140
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	112		60 - 140

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

Lab Sample ID: MB 410-441373/1-A
Matrix: Water
Analysis Batch: 441768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 441373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		11/09/23 07:39	11/09/23 23:23	1
Acenaphthene	5.0	U	5.0		ug/L		11/09/23 07:39	11/09/23 23:23	1
Aniline	5.0	U	5.0		ug/L		11/09/23 07:39	11/09/23 23:23	1
Fluorene	5.0	U	5.0		ug/L		11/09/23 07:39	11/09/23 23:23	1
Naphthalene	2.0	U	2.0		ug/L		11/09/23 07:39	11/09/23 23:23	1
Nitrobenzene	5.0	U	5.0		ug/L		11/09/23 07:39	11/09/23 23:23	1
Phenanthrene	5.0	U	5.0		ug/L		11/09/23 07:39	11/09/23 23:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		10 - 150	11/09/23 07:39	11/09/23 23:23	1
2-Fluorobiphenyl (Surr)	76		32 - 115	11/09/23 07:39	11/09/23 23:23	1
2-Fluorophenol (Surr)	47		10 - 83	11/09/23 07:39	11/09/23 23:23	1
Nitrobenzene-d5 (Surr)	74		41 - 121	11/09/23 07:39	11/09/23 23:23	1
p-Terphenyl-d14 (Surr)	83		28 - 134	11/09/23 07:39	11/09/23 23:23	1
Phenol-d5 (Surr)	33		10 - 63	11/09/23 07:39	11/09/23 23:23	1

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

Lab Sample ID: LCS 410-441373/2-A
Matrix: Water
Analysis Batch: 441768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 441373

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2-Methylnaphthalene			50.0	44.9		ug/L		90	50 - 114		
Acenaphthene			50.0	49.7		ug/L		99	47 - 145		
Aniline			50.0	31.9		ug/L		64	21 - 106		
Fluorene			50.0	50.9		ug/L		102	59 - 121		
Naphthalene			50.0	45.1		ug/L		90	21 - 133		
Nitrobenzene			50.0	47.2		ug/L		94	35 - 180		
Phenanthrene			50.0	50.5		ug/L		101	54 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*96*		*10 - 150*
2-Fluorobiphenyl (Surr)	*76*		*32 - 115*
2-Fluorophenol (Surr)	*49*		*10 - 83*
Nitrobenzene-d5 (Surr)	*73*		*41 - 121*
p-Terphenyl-d14 (Surr)	*89*		*28 - 134*
Phenol-d5 (Surr)	*38*		*10 - 63*

Lab Sample ID: LCSD 410-441373/3-A
Matrix: Water
Analysis Batch: 441768

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 441373

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene			50.0	42.7		ug/L		85	50 - 114	5	30
Acenaphthene			50.0	48.1		ug/L		96	47 - 145	3	30
Aniline			50.0	30.5		ug/L		61	21 - 106	5	30
Fluorene			50.0	47.5		ug/L		95	59 - 121	7	30
Naphthalene			50.0	43.9		ug/L		88	21 - 133	3	30
Nitrobenzene			50.0	45.9		ug/L		92	35 - 180	3	30
Phenanthrene			50.0	48.9		ug/L		98	54 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*
2-Fluorobiphenyl (Surr)	*76*		*32 - 115*
2-Fluorophenol (Surr)	*49*		*10 - 83*
Nitrobenzene-d5 (Surr)	*73*		*41 - 121*
p-Terphenyl-d14 (Surr)	*83*		*28 - 134*
Phenol-d5 (Surr)	*38*		*10 - 63*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-443024/1-A
Matrix: Water
Analysis Batch: 444856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		11/14/23 05:25	11/17/23 10:57	1
Iron	50	U	50		ug/L		11/14/23 05:25	11/17/23 10:57	1
Manganese	2.0	U	2.0		ug/L		11/14/23 05:25	11/17/23 10:57	1

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-443024/2-A
Matrix: Water
Analysis Batch: 444856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	488		ug/L		98	85 - 115
Iron	5000	4720		ug/L		94	85 - 115
Manganese	500	481		ug/L		96	85 - 115

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-441032/1
Matrix: Water
Analysis Batch: 441032

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			11/08/23 11:21	1

Lab Sample ID: LCS 410-441032/2
Matrix: Water
Analysis Batch: 441032

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	143		mg/L		95	89 - 105

Lab Sample ID: 410-150184-2 DU
Matrix: Water
Analysis Batch: 441032

Client Sample ID: INF-110623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	44		44.4		mg/L		1	5

Lab Sample ID: MB 410-441473/1
Matrix: Water
Analysis Batch: 441473

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			11/09/23 09:24	1

Lab Sample ID: LCS 410-441473/2
Matrix: Water
Analysis Batch: 441473

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	150	140		mg/L		93	89 - 105

QC Association Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

GC/MS VOA

Analysis Batch: 441107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-1	EFF-110623	Total/NA	Water	624.1	
410-150184-2	INF-110623	Total/NA	Water	624.1	
MB 410-441107/5	Method Blank	Total/NA	Water	624.1	
LCS 410-441107/1003	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 443739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-3	Trip Blank-110623	Total/NA	Water	624.1	
MB 410-443739/5	Method Blank	Total/NA	Water	624.1	
LCS 410-443739/1003	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 441373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-1	EFF-110623	Total/NA	Water	625.1	
410-150184-2	INF-110623	Total/NA	Water	625.1	
MB 410-441373/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-441373/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-441373/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 441768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-1	EFF-110623	Total/NA	Water	625.1	441373
410-150184-2	INF-110623	Total/NA	Water	625.1	441373
MB 410-441373/1-A	Method Blank	Total/NA	Water	625.1	441373
LCS 410-441373/2-A	Lab Control Sample	Total/NA	Water	625.1	441373
LCSD 410-441373/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	441373

Metals

Prep Batch: 443024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-1	EFF-110623	Total/NA	Water	200.8 Rev 5.4	
410-150184-2	INF-110623	Total/NA	Water	200.8 Rev 5.4	
MB 410-443024/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-443024/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 444856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-1	EFF-110623	Total/NA	Water	200.8 Rev 5.4	443024
410-150184-2	INF-110623	Total/NA	Water	200.8 Rev 5.4	443024
MB 410-443024/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	443024
LCS 410-443024/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	443024

Analysis Batch: 445494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-2	INF-110623	Total/NA	Water	200.8 Rev 5.4	443024

QC Association Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

General Chemistry

Analysis Batch: 441032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-2	INF-110623	Total/NA	Water	2540D-2015	
MB 410-441032/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-441032/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-150184-2 DU	INF-110623	Total/NA	Water	2540D-2015	

Analysis Batch: 441473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-150184-1	EFF-110623	Total/NA	Water	2540D-2015	
MB 410-441473/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-441473/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

Client Sample ID: EFF-110623

Lab Sample ID: 410-150184-1

Date Collected: 11/06/23 10:30

Matrix: Water

Date Received: 11/07/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	441107	UJML	ELLE	11/09/23 04:50
Total/NA	Prep	625.1			441373	QKX3	ELLE	11/09/23 07:39
Total/NA	Analysis	625.1		1	441768	P7EB	ELLE	11/10/23 01:14
Total/NA	Prep	200.8 Rev 5.4			443024	NU9R	ELLE	11/14/23 05:25
Total/NA	Analysis	200.8 Rev 5.4		1	444856	F7JF	ELLE	11/17/23 11:11
Total/NA	Analysis	2540D-2015		1	441473	M98K	ELLE	11/09/23 09:24 - 11/10/23 06:40 [1]

Client Sample ID: INF-110623

Lab Sample ID: 410-150184-2

Date Collected: 11/06/23 10:45

Matrix: Water

Date Received: 11/07/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	441107	UJML	ELLE	11/09/23 05:12
Total/NA	Prep	625.1			441373	QKX3	ELLE	11/09/23 07:39
Total/NA	Analysis	625.1		1	441768	P7EB	ELLE	11/10/23 01:36
Total/NA	Prep	200.8 Rev 5.4			443024	NU9R	ELLE	11/14/23 05:25
Total/NA	Analysis	200.8 Rev 5.4		10	445494	F7JF	ELLE	11/20/23 08:37
Total/NA	Prep	200.8 Rev 5.4			443024	NU9R	ELLE	11/14/23 05:25
Total/NA	Analysis	200.8 Rev 5.4		1	444856	F7JF	ELLE	11/17/23 11:09
Total/NA	Analysis	2540D-2015		1	441032	M98K	ELLE	11/08/23 11:21 - 11/09/23 05:50 [1]

Client Sample ID: Trip Blank-110623

Lab Sample ID: 410-150184-3

Date Collected: 11/06/23 10:45

Matrix: Water

Date Received: 11/07/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	443739	UJML	ELLE	11/15/23 16:43

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-150184-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-150184-1	EFF-110623	Water	11/06/23 10:30	11/07/23 10:00
410-150184-2	INF-110623	Water	11/06/23 10:45	11/07/23 10:00
410-150184-3	Trip Blank-110623	Water	11/06/23 10:45	11/07/23 10:00

410-150184 Chain of Custody

boratory Management Program LaMP Chain of Custody Record

Page _____ of _____

ARC Project Name: Wellsville OU2 - Monthly SPDES | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ____ No X

ARC Facility No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72174	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ____

BP/ARC EBM: James Schaeffer

EBM Phone: 281-800-7868

EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS						Report Type & QC Level: Comments
	EFF-110623	11/6/2023	1030		X			7	3		1	3			3	2	1	1							pH= 7.31
	INF-110623	11/6/2023	1045		X			7	3		1	3			3	2	1	1							pH= 6.84
	Trip blank	11/6/2023	1045		X			2				2													
	Temp blank	11/6/2023			X			1																	
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																								
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																								

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	11/6/23	1200			
Shipment Method: FedEx Ship Date: 11/6/2023	On-site					
Shipment Tracking No: 817934707611					11/7/23	1000

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 1.7 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-150184-1

Login Number: 150184

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 441107 | Batch Start Date: 11/08/23 20:36 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-441107/5		624.1		5 mL	5 mL				2711
410-150184-E-1	EFF-110623	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-150184-E-2	INF-110623	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-441107/1003		624.1		5 mL	5 mL				2711

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_1:10_AF 00049	MSV_624.1_ISS 00009	MSV_LCS_2CEVE 00142	MSV_LCS_ACR 00020	MSV_LCS_Gases 00168	MSV_LCS_VOC#1 00138
MB 410-441107/5		624.1		86 uL	5 uL				
410-150184-E-1	EFF-110623	624.1	T		5 uL				
410-150184-E-2	INF-110623	624.1	T		5 uL				
LCS 410-441107/1003		624.1			5 uL	50 uL	2 uL	50 uL	50 uL

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 443739 | Batch Start Date: 11/15/23 12:13 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-443739/5		624.1		5 mL	5 mL				2711
410-150184-A-3	Trip Blank-110623	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-443739/1003		624.1		5 mL	5 mL				2711

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00009	MSV_LCS_2CEVE 00143	MSV_LCS_ACR 00021	MSV_LCS_Gases 00169	MSV_LCS_VOC#1 00139	
MB 410-443739/5		624.1		5 uL					
410-150184-A-3	Trip Blank-110623	624.1	T	5 uL					
LCS 410-443739/1003		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 441373 | Batch Start Date: 11/09/23 07:39 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 11/09/23 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-441373/1		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCS 410-441373/2		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCSD 410-441373/3		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
410-150184-B-1	EFF-110623	625.1, 625.1	T	415.79 g	166.63 g	249.2 mL	1.0 mL	n/a SU	>11 SU
410-150184-B-2	INF-110623	625.1, 625.1	T	415.87 g	167.34 g	248.5 mL	1.0 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00016	OP_MINLCS1_MS 00191	AnalysisComment	
MB 410-441373/1		625.1, 625.1		<2 SU	n SU	0.25 mL		Tap H2O	
LCS 410-441373/2		625.1, 625.1		<2 SU	n SU	0.25 mL	1 mL	Tap H2O	
LCSD 410-441373/3		625.1, 625.1		<2 SU	n SU	0.25 mL	1 mL	Tap H2O	
410-150184-B-1	EFF-110623	625.1, 625.1	T	<2 SU	n SU	0.25 mL		Pale Yellow Tint	
410-150184-B-2	INF-110623	625.1, 625.1	T	<2 SU	n SU	0.25 mL		Yellow Tint	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 441373 | Batch Start Date: 11/09/23 07:39 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 11/09/23 13:00

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, HAS95678
Analyst ID - Spike Analyst	PDH91662, HAS95678
Acid Used for pH Adjustment ID	H2SO4: 225894
Base Used to Adjust pH ID	NaOH: 4210F91
Prep Solvent ID	MeCl2: 63223
Prep Solvent Volume Used	90
Extraction 1 Start Time	11/09/2023 08:49
Extraction 1 End Time	11/09/2023 09:55
Na2SO4 ID	23310A
Analyst ID - Concentration	PDH91662, HAS95678
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	23029222
Pipette Tip Lot ID	L208607R

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 443024 | Batch Start Date: 11/14/23 08:00 | Batch Analyst: Weidman, Allison

Batch Method: 200.8 Rev 5.4 | Batch End Date: 11/14/23 13:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00032	MP_1:1HNO3 00050	MT_LCS-SPK-A 00032	MT_LCS-SPK-B 00031
MB 410-443024/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-443024/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-150184-H-2	INF-110623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-150184-H-1	EFF-110623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	86 Celsius
Hot Block ID	12
Digestion Tube/Cup ID	2211204
Thermometer ID	3811
Pipette ID	G20054G
Reflux Cap ID	2210117
Pipette Tip Lot ID	F169949R

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 441032 | Batch Start Date: 11/08/23 11:21 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 11/09/23 05:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-441032/1		2540D-2015		2Ma96PS	0.1121 g	1000 mL	0.1120 g	-0.0001 g	1000 mL
LCS 410-441032/2		2540D-2015		2Ma96PT	0.1168 g	1000 mL	0.2597 g	0.1429 g	1000 mL
410-150184-D-2	INF-110623	2540D-2015	T	2Ma96Q4	0.1179 g	500 mL	0.1398 g	0.0219 g	1000 mL
410-150184-D-2 DU	INF-110623	2540D-2015	T	2Ma96Q5	0.1139 g	500 mL	0.1361 g	0.0222 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00056	AnalysisComment		
MB 410-441032/1		2540D-2015		0.112 g	0.1121 g				
LCS 410-441032/2		2540D-2015		0.2597 g	0.1168 g	0.1501 g	vial 18 0.1501		
410-150184-D-2	INF-110623	2540D-2015	T	0.1398 g	0.1179 g		200+200+100 slow,cloudy		
410-150184-D-2 DU	INF-110623	2540D-2015	T	0.1361 g	0.1139 g				

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600042-3222-mp
Balance ID	D29-A-27504
Balance is Level? (Y/N)	yes
Oven ID	7492
Thermometer ID	1052
Date/Time - In	11/08/2023 12:04
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	11/09/2023 05:50
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 441032 Batch Start Date: 11/08/23 11:21 Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 Batch End Date: 11/09/23 05:50

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-150184-1

SDG No.:

Batch Number: 441473 | Batch Start Date: 11/09/23 09:24 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 11/10/23 06:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-441473/1		2540D-2015		2Ma96GT	0.1183 g	1000 mL	0.1180 g	-0.0003 g	1000 mL
LCS 410-441473/2		2540D-2015		2Ma96GU	0.1173 g	1000 mL	0.2575 g	0.1402 g	1000 mL
410-150184-D-1	EFF-110623	2540D-2015	T	2Ma96H5	0.1145 g	1000 mL	0.1151 g	0.0006 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00057	AnalysisComment		
MB 410-441473/1		2540D-2015		0.118 g	0.1183 g				
LCS 410-441473/2		2540D-2015		0.2575 g	0.1173 g	0.1502 g	vial 29 0.1502		
410-150184-D-1	EFF-110623	2540D-2015	T	0.1151 g	0.1145 g				

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600042-3222-MP
Balance ID	D29--27504
Balance is Level? (Y/N)	yes
Oven ID	7492
Thermometer ID	1052
Date/Time - In	11/09/2023 11:08
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	11/10/2023 06:40
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 12/18/2023 11:08:28 PM

JOB DESCRIPTION

BP Wellsville, NY

JOB NUMBER

410-153462-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

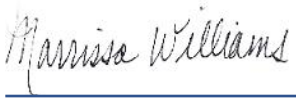
myEOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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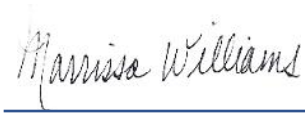

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Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

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
410-153462-1

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 12/5/2023 10:10 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 3.7°C

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

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Client Sample ID: EFF-120423 — Lab Sample ID: 410-153462-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	130		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	450		2.0		ug/L	1		200.8 Rev 5.4	Total/NA

Client Sample ID: INF-120423 — Lab Sample ID: 410-153462-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.7		1.0		ug/L	1		624.1	Total/NA
Toluene	1.3		1.0		ug/L	1		624.1	Total/NA
Xylenes, Total	2.0		1.0		ug/L	1		624.1	Total/NA
Aniline	34		5.0		ug/L	1		625.1	Total/NA
Nitrobenzene	37		5.0		ug/L	1		625.1	Total/NA
Arsenic	42		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	29000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4400		10		ug/L	5		200.8 Rev 5.4	Total/NA
Total Suspended Solids	36		5.6		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-153462-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: EFF-120423

Lab Sample ID: 410-153462-1

Date Collected: 12/04/23 10:20

Matrix: Water

Date Received: 12/05/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			12/09/23 01:21	1
Benzene	1.0	U	1.0		ug/L			12/09/23 01:21	1
Chloroethane	1.0	U	1.0		ug/L			12/09/23 01:21	1
Ethylbenzene	1.0	U	1.0		ug/L			12/09/23 01:21	1
Toluene	1.0	U	1.0		ug/L			12/09/23 01:21	1
Vinyl chloride	1.0	U	1.0		ug/L			12/09/23 01:21	1
Xylenes, Total	1.0	U	1.0		ug/L			12/09/23 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*		*12/09/23 01:21*	*1*
4-Bromofluorobenzene (Surr)	*90*		*60 - 140*		*12/09/23 01:21*	*1*
Dibromofluoromethane (Surr)	*125*		*60 - 140*		*12/09/23 01:21*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*12/09/23 01:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:26	1
Acenaphthene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:26	1
Aniline	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:26	1
Fluorene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:26	1
Naphthalene	2.0	U	2.0		ug/L		12/07/23 07:45	12/07/23 21:26	1
Nitrobenzene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:26	1
Phenanthrene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 150*	*12/07/23 07:45*	*12/07/23 21:26*	*1*
2-Fluorobiphenyl (Surr)	*70*		*32 - 115*	*12/07/23 07:45*	*12/07/23 21:26*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 83*	*12/07/23 07:45*	*12/07/23 21:26*	*1*
Nitrobenzene-d5 (Surr)	*67*		*41 - 121*	*12/07/23 07:45*	*12/07/23 21:26*	*1*
p-Terphenyl-d14 (Surr)	*60*		*28 - 134*	*12/07/23 07:45*	*12/07/23 21:26*	*1*
Phenol-d5 (Surr)	*25*		*10 - 63*	*12/07/23 07:45*	*12/07/23 21:26*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		12/08/23 05:56	12/18/23 18:00	1
Iron	**130**		50		ug/L		12/08/23 05:56	12/18/23 18:00	1
Manganese	**450**		2.0		ug/L		12/08/23 05:56	12/18/23 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	3.0	U	3.0		mg/L			12/06/23 10:38	1

Client Sample ID: INF-120423

Lab Sample ID: 410-153462-2

Date Collected: 12/04/23 10:40

Matrix: Water

Date Received: 12/05/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			12/09/23 01:45	1
Benzene	**3.7**		1.0		ug/L			12/09/23 01:45	1

Client Sample ID: INF-120423

Lab Sample ID: 410-153462-2

Date Collected: 12/04/23 10:40

Matrix: Water

Date Received: 12/05/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0		ug/L			12/09/23 01:45	1
Ethylbenzene	1.0	U	1.0		ug/L			12/09/23 01:45	1
Toluene	**1.3**		1.0		ug/L			12/09/23 01:45	1
Vinyl chloride	1.0	U	1.0		ug/L			12/09/23 01:45	1
Xylenes, Total	**2.0**		1.0		ug/L			12/09/23 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*12/09/23 01:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*12/09/23 01:45*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*		*12/09/23 01:45*	*1*
Toluene-d8 (Surr)	*105*		*60 - 140*		*12/09/23 01:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:47	1
Acenaphthene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:47	1
Aniline	**34**		5.0		ug/L		12/07/23 07:45	12/07/23 21:47	1
Fluorene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:47	1
Naphthalene	2.0	U	2.0		ug/L		12/07/23 07:45	12/07/23 21:47	1
Nitrobenzene	**37**		5.0		ug/L		12/07/23 07:45	12/07/23 21:47	1
Phenanthrene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*15*		*10 - 150*	*12/07/23 07:45*	*12/07/23 21:47*	*1*
2-Fluorobiphenyl (Surr)	*74*		*32 - 115*	*12/07/23 07:45*	*12/07/23 21:47*	*1*
2-Fluorophenol (Surr)	*2*	*S1-*	*10 - 83*	*12/07/23 07:45*	*12/07/23 21:47*	*1*
Nitrobenzene-d5 (Surr)	*66*		*41 - 121*	*12/07/23 07:45*	*12/07/23 21:47*	*1*
p-Terphenyl-d14 (Surr)	*50*		*28 - 134*	*12/07/23 07:45*	*12/07/23 21:47*	*1*
Phenol-d5 (Surr)	*0.8*	*S1-*	*10 - 63*	*12/07/23 07:45*	*12/07/23 21:47*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**42**		2.0		ug/L		12/08/23 05:56	12/18/23 17:58	1
Iron	**29000**		50		ug/L		12/08/23 05:56	12/18/23 17:58	1
Manganese	**4400**		10		ug/L		12/08/23 05:56	12/18/23 18:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**36**		5.6		mg/L			12/06/23 10:38	1

Client Sample ID: Trip Blank

Lab Sample ID: 410-153462-3

Date Collected: 12/04/23 10:40

Matrix: Water

Date Received: 12/05/23 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			12/09/23 02:08	1
Benzene	1.0	U	1.0		ug/L			12/09/23 02:08	1
Chloroethane	1.0	U	1.0		ug/L			12/09/23 02:08	1
Ethylbenzene	1.0	U	1.0		ug/L			12/09/23 02:08	1

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Client Sample ID: Trip Blank
Date Collected: 12/04/23 10:40
Date Received: 12/05/23 10:10

Lab Sample ID: 410-153462-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.0	U	1.0		ug/L			12/09/23 02:08	1
Vinyl chloride	1.0	U	1.0		ug/L			12/09/23 02:08	1
Xylenes, Total	1.0	U	1.0		ug/L			12/09/23 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*		*12/09/23 02:08*	*1*
4-Bromofluorobenzene (Surr)	*91*		*60 - 140*		*12/09/23 02:08*	*1*
Dibromofluoromethane (Surr)	*120*		*60 - 140*		*12/09/23 02:08*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*12/09/23 02:08*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	DBFM	TOL				
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)				
410-153462-1	EFF-120423	119	90	125	96				
410-153462-2	INF-120423	106	100	108	105				
410-153462-3	Trip Blank	117	91	120	97				
LCS 410-451935/1043	Lab Control Sample	107	91	110	106				
MB 410-451935/45	Method Blank	120	88	123	96				

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (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	(10-150)	(32-115)	(10-83)	(41-121)	(28-134)	(10-63)		
410-153462-1	EFF-120423	69	70	35	67	60	25		
410-153462-2	INF-120423	15	74	2 S1-	66	50	0.8 S1-		
LCS 410-451116/2-A	Lab Control Sample	102	71	53	81	87	38		
MB 410-451116/1-A	Method Blank	96	67	46	77	77	33		

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
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 410-451935/45
Matrix: Water
Analysis Batch: 451935

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			12/08/23 23:48	1
Benzene	1.0	U	1.0		ug/L			12/08/23 23:48	1
Chloroethane	1.0	U	1.0		ug/L			12/08/23 23:48	1
Ethylbenzene	1.0	U	1.0		ug/L			12/08/23 23:48	1
Toluene	1.0	U	1.0		ug/L			12/08/23 23:48	1
Vinyl chloride	1.0	U	1.0		ug/L			12/08/23 23:48	1
Xylenes, Total	1.0	U	1.0		ug/L			12/08/23 23:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*60 - 140*		*12/08/23 23:48*	*1*
4-Bromofluorobenzene (Surr)	*88*		*60 - 140*		*12/08/23 23:48*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*12/08/23 23:48*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*12/08/23 23:48*	*1*

Lab Sample ID: LCS 410-451935/1043
Matrix: Water
Analysis Batch: 451935

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethane			20.0	20.3		ug/L		102	70 - 130		
Benzene			20.0	20.0		ug/L		100	65 - 135		
Chloroethane			20.0	16.5		ug/L		82	40 - 160		
Ethylbenzene			20.0	18.5		ug/L		92	60 - 140		
Toluene			20.0	19.3		ug/L		97	70 - 130		
Vinyl chloride			20.0	14.8		ug/L		74	10 - 195		
Xylenes, Total			60.0	56.8		ug/L		95	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
4-Bromofluorobenzene (Surr)	*91*		*60 - 140*
Dibromofluoromethane (Surr)	*110*		*60 - 140*
Toluene-d8 (Surr)	*106*		*60 - 140*

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

Lab Sample ID: MB 410-451116/1-A
Matrix: Water
Analysis Batch: 451274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 451116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 15:45	1
Acenaphthene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 15:45	1
Aniline	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 15:45	1
Fluorene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 15:45	1
Naphthalene	2.0	U	2.0		ug/L		12/07/23 07:45	12/07/23 15:45	1
Nitrobenzene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 15:45	1
Phenanthrene	5.0	U	5.0		ug/L		12/07/23 07:45	12/07/23 15:45	1

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

Lab Sample ID: MB 410-451116/1-A
Matrix: Water
Analysis Batch: 451274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 451116

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*96*		*10 - 150*	*12/07/23 07:45*	*12/07/23 15:45*	*1*
2-Fluorobiphenyl (Surr)	*67*		*32 - 115*	*12/07/23 07:45*	*12/07/23 15:45*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 83*	*12/07/23 07:45*	*12/07/23 15:45*	*1*
Nitrobenzene-d5 (Surr)	*77*		*41 - 121*	*12/07/23 07:45*	*12/07/23 15:45*	*1*
p-Terphenyl-d14 (Surr)	*77*		*28 - 134*	*12/07/23 07:45*	*12/07/23 15:45*	*1*
Phenol-d5 (Surr)	*33*		*10 - 63*	*12/07/23 07:45*	*12/07/23 15:45*	*1*

Lab Sample ID: LCS 410-451116/2-A
Matrix: Water
Analysis Batch: 451274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 451116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	48.1		ug/L		96	50 - 114
Acenaphthene	50.0	52.3		ug/L		105	47 - 145
Aniline	50.0	36.7		ug/L		73	21 - 106
Fluorene	50.0	52.8		ug/L		106	59 - 121
Naphthalene	50.0	46.9		ug/L		94	21 - 133
Nitrobenzene	50.0	51.9		ug/L		104	35 - 180
Phenanthrene	50.0	53.5		ug/L		107	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*102*		*10 - 150*
2-Fluorobiphenyl (Surr)	*71*		*32 - 115*
2-Fluorophenol (Surr)	*53*		*10 - 83*
Nitrobenzene-d5 (Surr)	*81*		*41 - 121*
p-Terphenyl-d14 (Surr)	*87*		*28 - 134*
Phenol-d5 (Surr)	*38*		*10 - 63*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-451538/1-A
Matrix: Water
Analysis Batch: 455540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 451538

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		12/08/23 05:56	12/18/23 17:36	1
Iron	50	U	50		ug/L		12/08/23 05:56	12/18/23 17:36	1
Manganese	2.0	U	2.0		ug/L		12/08/23 05:56	12/18/23 17:36	1

Lab Sample ID: LCS 410-451538/2-A
Matrix: Water
Analysis Batch: 455540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 451538

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	500	530		ug/L		106	85 - 115
Iron	5000	5250		ug/L		105	85 - 115
Manganese	500	527		ug/L		105	85 - 115

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-450718/1
Matrix: Water
Analysis Batch: 450718

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			12/06/23 10:38	1

Lab Sample ID: LCS 410-450718/2
Matrix: Water
Analysis Batch: 450718

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	146		mg/L		97	89 - 105

Lab Sample ID: 410-153462-2 DU
Matrix: Water
Analysis Batch: 450718

Client Sample ID: INF-120423
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	36		40.7	F3	mg/L		12	5

QC Association Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

GC/MS VOA

Analysis Batch: 451935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153462-1	EFF-120423	Total/NA	Water	624.1	
410-153462-2	INF-120423	Total/NA	Water	624.1	
410-153462-3	Trip Blank	Total/NA	Water	624.1	
MB 410-451935/45	Method Blank	Total/NA	Water	624.1	
LCS 410-451935/1043	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 451116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153462-1	EFF-120423	Total/NA	Water	625.1	
410-153462-2	INF-120423	Total/NA	Water	625.1	
MB 410-451116/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-451116/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 451274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153462-1	EFF-120423	Total/NA	Water	625.1	451116
410-153462-2	INF-120423	Total/NA	Water	625.1	451116
MB 410-451116/1-A	Method Blank	Total/NA	Water	625.1	451116
LCS 410-451116/2-A	Lab Control Sample	Total/NA	Water	625.1	451116

Metals

Prep Batch: 451538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153462-1	EFF-120423	Total/NA	Water	200.8 Rev 5.4	
410-153462-2	INF-120423	Total/NA	Water	200.8 Rev 5.4	
MB 410-451538/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-451538/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 455540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153462-1	EFF-120423	Total/NA	Water	200.8 Rev 5.4	451538
410-153462-2	INF-120423	Total/NA	Water	200.8 Rev 5.4	451538
410-153462-2	INF-120423	Total/NA	Water	200.8 Rev 5.4	451538
MB 410-451538/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	451538
LCS 410-451538/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	451538

General Chemistry

Analysis Batch: 450718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-153462-1	EFF-120423	Total/NA	Water	2540D-2015	
410-153462-2	INF-120423	Total/NA	Water	2540D-2015	
MB 410-450718/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-450718/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-153462-2 DU	INF-120423	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Client Sample ID: EFF-120423

Lab Sample ID: 410-153462-1

Date Collected: 12/04/23 10:20

Matrix: Water

Date Received: 12/05/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	451935	UJML	ELLE	12/09/23 01:21
Total/NA	Prep	625.1			451116	QKX3	ELLE	12/07/23 07:45
Total/NA	Analysis	625.1		1	451274	GLQ9	ELLE	12/07/23 21:26
Total/NA	Prep	200.8 Rev 5.4			451538	NU9R	ELLE	12/08/23 05:56
Total/NA	Analysis	200.8 Rev 5.4		1	455540	UCIG	ELLE	12/18/23 18:00
Total/NA	Analysis	2540D-2015		1	450718	M98K	ELLE	12/06/23 10:38 - 12/07/23 06:20 [1]

Client Sample ID: INF-120423

Lab Sample ID: 410-153462-2

Date Collected: 12/04/23 10:40

Matrix: Water

Date Received: 12/05/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	451935	UJML	ELLE	12/09/23 01:45
Total/NA	Prep	625.1			451116	QKX3	ELLE	12/07/23 07:45
Total/NA	Analysis	625.1		1	451274	GLQ9	ELLE	12/07/23 21:47
Total/NA	Prep	200.8 Rev 5.4			451538	NU9R	ELLE	12/08/23 05:56
Total/NA	Analysis	200.8 Rev 5.4		1	455540	UCIG	ELLE	12/18/23 17:58
Total/NA	Prep	200.8 Rev 5.4			451538	NU9R	ELLE	12/08/23 05:56
Total/NA	Analysis	200.8 Rev 5.4		5	455540	UCIG	ELLE	12/18/23 18:13
Total/NA	Analysis	2540D-2015		1	450718	M98K	ELLE	12/06/23 10:38 - 12/07/23 06:20 [1]

Client Sample ID: Trip Blank

Lab Sample ID: 410-153462-3

Date Collected: 12/04/23 10:40

Matrix: Water

Date Received: 12/05/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	451935	UJML	ELLE	12/09/23 02:08

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Project/Site: BP Wellsville, NY

Job ID: 410-153462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-153462-1	EFF-120423	Water	12/04/23 10:20	12/05/23 10:10
410-153462-2	INF-120423	Water	12/04/23 10:40	12/05/23 10:10
410-153462-3	Trip Blank	Water	12/04/23 10:40	12/05/23 10:10

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program Lal

410-153462 Chain of Custody

BP/ARC Project Name: Wellsville OU2 - Monthly SPDES

BP/ARC Facility No: USEPA ID: NY-D98053215

Standard Rush TAT: Yes ___ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 72175	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix:	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs EPA 624	SVOCs EPA 625	Metals- As, Fe, Mn	TSS						Report Type & QC Level: Comments
	EFF-120423	12/4/2023	1020		X			7	3		1	3			3	2	1	1							pH= 7.30
	INF-120423	12/4/2023	1040		X			7	3		1	3			3	2	1	1							pH= 6.82
	Trip blank	12/4/2023	1040		X			2				2												
	Temp blank	12/4/2023			X			1																
	VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)																							
	SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene																							

Standard X
Full Data Package

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)

SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation / Date / Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	12/4/23	1200	
Shipment Method: FedEx Ship Date: 12/4/2023				
Shipment Tracking No: 818036016092				12/5/23 1010

Special Instructions: pH value in comment area, measured in field

Raw 3.9 corr 3.7

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-153462-1

Login Number: 153462

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-153462-1

SDG No.:

Batch Number: 451935 | Batch Start Date: 12/08/23 22:15 | Batch Analyst: Long, Jason M

Batch Method: 624.1 | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
MB 410-451935/45		624.1		5 mL	5 mL				2711
410-153462-E-1	EFF-120423	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-153462-E-2	INF-120423	624.1	T	5 mL	5 mL	<2 SU	N	N	
410-153462-A-3	Trip Blank	624.1	T	5 mL	5 mL	<2 SU	N	N	
LCS 410-451935/1043		624.1		5 mL	5 mL				2711

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_624.1_ISS 00009	MSV_LCS_2CEVE 00147	MSV_LCS_ACR 00021	MSV_LCS_Gases 00172	MSV_LCS_VOC#1 00142	
MB 410-451935/45		624.1		5 uL					
410-153462-E-1	EFF-120423	624.1	T	5 uL					
410-153462-E-2	INF-120423	624.1	T	5 uL					
410-153462-A-3	Trip Blank	624.1	T	5 uL					
LCS 410-451935/1043		624.1		5 uL	50 uL	2 uL	50 uL	50 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-153462-1

SDG No.:

Batch Number: 451116 | Batch Start Date: 12/07/23 07:45 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 12/07/23 14:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-451116/1		625.1, 625.1				250 mL	1 mL	>11	<2
LCS 410-451116/2		625.1, 625.1				250 mL	1 mL	>11	<2
410-153462-B-1	EFF-120423	625.1, 625.1	T	415.29 g	167.37 g	247.9 mL	1 mL	>11 SU	<2 SU
410-153462-B-2	INF-120423	625.1, 625.1	T	416.24 g	167.86 g	248.4 mL	1 mL	>11 SU	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_625_SS 00016	OP_MINLCS1_MS 00194	AnalysisComment			
MB 410-451116/1		625.1, 625.1		0.25 mL		tap H2O			
LCS 410-451116/2		625.1, 625.1		0.25 mL	1 mL	tap H2O			
410-153462-B-1	EFF-120423	625.1, 625.1	T	0.25 mL		clear			
410-153462-B-2	INF-120423	625.1, 625.1	T	0.25 mL		pale yellow, cloudy			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-153462-1

SDG No.:

Batch Number: 451116 | Batch Start Date: 12/07/23 07:45 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 12/07/23 14:19

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, HAS95678
Analyst ID - Spike Analyst	PDH91662, HAS95678
Acid Used for pH Adjustment ID	H2SO4: 225894
Base Used to Adjust pH ID	NaOH: 4210F91
Prep Solvent ID	MeCl2: 63223
Prep Solvent Volume Used	90
Extraction 1 Start Time	12/07/2023 08:55
Extraction 1 End Time	12/07/2023 10:03
Na2SO4 ID	233340A
Analyst ID - Concentration	PDH91662, HAS95678
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	23147219
Pipette Tip Lot ID	L208607R

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-153462-1

SDG No.:

Batch Number: 451538 | Batch Start Date: 12/08/23 08:00 | Batch Analyst: Weidman, Allison

Batch Method: 200.8 Rev 5.4 | Batch End Date: 12/08/23 12:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00032	MP_1:1HNO3 00051	MT_LCS-SPK-A 00033	MT_LCS-SPK-B 00030
MB 410-451538/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-451538/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-153462-H-2	INF-120423	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-153462-H-1	EFF-120423	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	16
Digestion Tube/Cup ID	2211204
Thermometer ID	3848
Pipette ID	G20054G
Reflux Cap ID	2210117
Pipette Tip Lot ID	F169949R

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-153462-1

SDG No.:

Batch Number: 450718 | Batch Start Date: 12/06/23 10:38 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 12/07/23 06:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-450718/1		2540D-2015		L3YV9	0.1198 g	1000 mL	0.1197 g	-0.0001 g	1000 mL
LCS 410-450718/2		2540D-2015		L3YVA	0.1189 g	1000 mL	0.2652 g	0.1463 g	1000 mL
410-153462-D-2	INF-120423	2540D-2015	T	L3YTW	0.1199 g	540 mL	0.1394 g	0.0195 g	1000 mL
410-153462-D-2 DU	INF-120423	2540D-2015	T	L3YTX	0.1192 g	540 mL	0.1412 g	0.0220 g	1000 mL
410-153462-D-1	EFF-120423	2540D-2015	T	L3YU4	0.1193 g	1000 mL	0.1197 g	0.0004 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00058	AnalysisComment		
MB 410-450718/1		2540D-2015		0.1197 g	0.1198 g				
LCS 410-450718/2		2540D-2015		0.2652 g	0.1189 g	0.1505 g	vial 19 0.1505		
410-153462-D-2	INF-120423	2540D-2015	T	0.1394 g	0.1199 g		200+200+100+40 slow,cloudy		
410-153462-D-2 DU	INF-120423	2540D-2015	T	0.1412 g	0.1192 g				
410-153462-D-1	EFF-120423	2540D-2015	T	0.1197 g	0.1193 g		250+250+250+250		

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600041-3318-r2
Balance ID	27505
Balance is Level? (Y/N)	yes
Oven ID	7492
Thermometer ID	1052
Date/Time - In	12/06/2023 11:27
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	12/07/2023 06:20
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-153462-1

SDG No.:

Batch Number: 450718 | Batch Start Date: 12/06/23 10:38 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 12/07/23 06:20

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 6/21/2023 11:21:43 AM

JOB DESCRIPTION

Wellsville OU2 - Annual Manholes

JOB NUMBER

410-129603-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

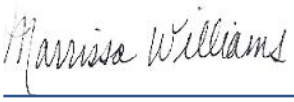
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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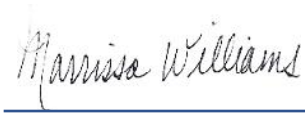

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
U	Indicates the analyte was analyzed for but not detected.

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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-129603-1

Receipt
The samples were received on 6/7/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3°C and 1.7°C

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-386398 recovered outside acceptance criteria, low biased, for 1,2-Dichloroethane, Bromomethane, Chloroethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-387239 recovered above the upper control limit for Freon 113. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MHH-060623 (410-129603-7). Elevated reporting limits (RLs) are provided.

Method 8260D_LL: The method requirement for no headspace was not met. The container (s) used for reanalysis of the following samples contained headspace: MHB-060623 (410-129603-2), MHC-060623 (410-129603-3) and MHF-060623 (410-129603-5). The sample container was received without headspace.

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

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHA-060623 — Lab Sample ID: 410-129603-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.52		0.50		ug/L	1		8260D	Total/NA
Benzene	9.2		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	9.5		0.50		ug/L	1		8260D	Total/NA
Toluene	1.8		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	2.7		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	75		5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	52		5.0		ug/L	10		8260D	Total/NA
Arsenic	120		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	32000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3900		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	15		5.5		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHB-060623 — Lab Sample ID: 410-129603-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.6		0.50		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.8		0.50		ug/L	1		8260D	Total/NA
Ethylbenzene	0.52		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	5.1		0.50		ug/L	1		8260D	Total/NA
Toluene	2.7		0.50		ug/L	1		8260D	Total/NA
Vinyl chloride	1.6		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	3.8		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	45	cn	5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	28	cn	5.0		ug/L	10		8260D	Total/NA
Nitrobenzene - DL	2300		260		ug/L	50		625.1	Total/NA
Arsenic	110		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	30000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3100	^2	2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	43		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHC-060623 — Lab Sample ID: 410-129603-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2		0.50		ug/L	1		8260D	Total/NA
Ethylbenzene	4.7		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	8.4		0.50		ug/L	1		8260D	Total/NA
Toluene	9.9		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	17		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	30	cn	5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	40	cn	5.0		ug/L	10		8260D	Total/NA
Arsenic	94		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	83000		500		ug/L	10		200.8 Rev 5.4	Total/NA
Manganese	4600		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	610		30		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHD-060623 — Lab Sample ID: 410-129603-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	5.8		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	1.6		0.50		ug/L	1		8260D	Total/NA
Methylcyclohexane	1.6		0.50		ug/L	1		8260D	Total/NA
Nitrobenzene	15		5.2		ug/L	1		625.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHD-060623 (Continued)
Lab Sample ID: 410-129603-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	27		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	25000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	2700	^2	2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	57		7.5		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.4		0.50		ug/L	1		8260D	Total/NA
Ethylbenzene	0.51		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	21		0.50		ug/L	1		8260D	Total/NA
Toluene	1.2		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	2.4		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	140	cn	5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	160	cn	5.0		ug/L	10		8260D	Total/NA
Arsenic	47		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	34000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4800		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	31		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0		ug/L	2		8260D	Total/NA
Ethylbenzene	6.2		1.0		ug/L	2		8260D	Total/NA
Isopropylbenzene	32		1.0		ug/L	2		8260D	Total/NA
Toluene	3.0		1.0		ug/L	2		8260D	Total/NA
Xylenes, Total	7.0		2.0		ug/L	2		8260D	Total/NA
Cyclohexane - DL	270		10		ug/L	20		8260D	Total/NA
Methylcyclohexane - DL	420		10		ug/L	20		8260D	Total/NA
Arsenic	62		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	30000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4100		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	24		5.5		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	180	cn	100		ug/L	200		8260D	Total/NA
Methylcyclohexane	260	cn	100		ug/L	200		8260D	Total/NA
Arsenic	28		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	20000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3500	^2	2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	44		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip blank
Lab Sample ID: 410-129603-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHA-060623
Date Collected: 06/06/23 10:30
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,1-Dichloroethane	**0.52**		0.50		ug/L			06/14/23 15:13	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dichloroethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 15:13	1
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 15:13	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 15:13	1
Acetone	5.0	U	5.0		ug/L			06/14/23 15:13	1
Benzene	**9.2**		0.50		ug/L			06/14/23 15:13	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 15:13	1
Bromomethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 15:13	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 15:13	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Chloroethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 15:13	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
Dichlorodifluoromethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 15:13	1
Isopropylbenzene	**9.5**		0.50		ug/L			06/14/23 15:13	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 15:13	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 15:13	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 15:13	1
Styrene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Toluene	**1.8**		0.50		ug/L			06/14/23 15:13	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 15:13	1
Xylenes, Total	**2.7**		1.0		ug/L			06/14/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*06/14/23 15:13*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*06/14/23 15:13*	*1*

Client Sample ID: MHA-060623
Lab Sample ID: 410-129603-1
Date Collected: 06/06/23 10:30
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*06/14/23 15:13*	*1*
Toluene-d8 (Surr)	*119*		*80 - 120*		*06/14/23 15:13*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**75**		5.0		ug/L			06/16/23 01:48	10
Methylcyclohexane	**52**		5.0		ug/L			06/16/23 01:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/16/23 01:48*	*10*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/16/23 01:48*	*10*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/16/23 01:48*	*10*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/16/23 01:48*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4,5-Trichlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4,6-Trichlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dichlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dimethylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dinitrophenol	11	U	11		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dinitrotoluene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,6-Dinitrotoluene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Chloronaphthalene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Chlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Methylnaphthalene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Methylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Nitroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Nitrophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
3,3'-Dichlorobenzidine	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
3-Nitroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4,6-Dinitro-2-methylphenol	11	U	11		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Bromophenyl phenyl ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Chloro-3-methylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Chloroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Chlorophenyl phenyl ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Methylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Nitroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Nitrophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Acenaphthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Acenaphthylene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Acetophenone	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Anthracene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[a]anthracene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[a]pyrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[b]fluoranthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[g,h,i]perylene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[k]fluoranthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
bis (2-chloroisopropyl) ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1

Client Sample ID: MHA-060623
Lab Sample ID: 410-129603-1
Date Collected: 06/06/23 10:30
Matrix: Water
Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Bis(2-chloroethyl)ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Bis(2-ethylhexyl) phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Butyl benzyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Carbazole	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Chrysene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Dibenz(a,h)anthracene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Dibenzofuran	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Diethyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Dimethyl phthalate	5.3	U *1	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Di-n-butyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Di-n-octyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Fluoranthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Fluorene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachlorobenzene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Indeno[1,2,3-cd]pyrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Isophorone	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Nitrobenzene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
N-Nitrosodi-n-propylamine	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
N-Nitrosodiphenylamine	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Pentachlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Phenanthrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Phenol	1.1	U	1.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Pyrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*10 - 150*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
2-Fluorobiphenyl (Surr)	*66*		*32 - 115*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 83*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
Nitrobenzene-d5 (Surr)	*69*		*41 - 121*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
Phenol-d5 (Surr)	*28*		*10 - 63*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
p-Terphenyl-d14 (Surr)	*50*		*28 - 134*	*06/12/23 07:37*	*06/12/23 21:46*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**120**		2.0		ug/L		06/14/23 08:40	06/21/23 09:05	1
Iron	**32000**		50		ug/L		06/14/23 08:40	06/21/23 09:05	1
Manganese	**3900**		20		ug/L		06/14/23 08:40	06/21/23 11:44	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**15**		5.5		mg/L			06/08/23 09:29	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHB-060623
Date Collected: 06/06/23 10:45
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
2-Butanone	5.0	U	5.0		ug/L			06/15/23 23:46	1
2-Hexanone	5.0	U	5.0		ug/L			06/15/23 23:46	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/15/23 23:46	1
Acetone	5.0	U	5.0		ug/L			06/15/23 23:46	1
Benzene	**4.6**		0.50		ug/L			06/15/23 23:46	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Bromoform	1.0	U	1.0		ug/L			06/15/23 23:46	1
Bromomethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Carbon disulfide	1.0	U	1.0		ug/L			06/15/23 23:46	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chloroform	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chloromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
cis-1,2-Dichloroethene	**2.8**		0.50		ug/L			06/15/23 23:46	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Ethylbenzene	**0.52**		0.50		ug/L			06/15/23 23:46	1
Freon 113	0.50	U cn	0.50		ug/L			06/15/23 23:46	1
Isopropylbenzene	**5.1**		0.50		ug/L			06/15/23 23:46	1
Methyl acetate	1.0	U	1.0		ug/L			06/15/23 23:46	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/15/23 23:46	1
Methylene Chloride	0.50	U	0.50		ug/L			06/15/23 23:46	1
Styrene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Toluene	**2.7**		0.50		ug/L			06/15/23 23:46	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Trichloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Vinyl chloride	**1.6**		0.50		ug/L			06/15/23 23:46	1
Xylenes, Total	**3.8**		1.0		ug/L			06/15/23 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/15/23 23:46*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/15/23 23:46*	*1*

Client Sample ID: MHB-060623
Lab Sample ID: 410-129603-2
Date Collected: 06/06/23 10:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*06/15/23 23:46*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/15/23 23:46*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**45**	**cn**	5.0		ug/L			06/16/23 00:07	10
Methylcyclohexane	**28**	**cn**	5.0		ug/L			06/16/23 00:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*
Dibromofluoromethane (Surr)	*106*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*
4-Bromofluorobenzene (Surr)	*98*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*
Toluene-d8 (Surr)	*91*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4,6-Dinitro-2-methylphenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1

Client Sample ID: MHB-060623
Date Collected: 06/06/23 10:45
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Dimethyl phthalate	5.2	U *1	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 22:07	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 22:07	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 22:07	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*10 - 150*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
2-Fluorobiphenyl (Surr)	*65*		*32 - 115*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 83*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
Nitrobenzene-d5 (Surr)	*64*		*41 - 121*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
Phenol-d5 (Surr)	*31*		*10 - 63*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
p-Terphenyl-d14 (Surr)	*62*		*28 - 134*	*06/12/23 07:37*	*06/12/23 22:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	**2300**		260		ug/L		06/12/23 07:37	06/14/23 00:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 150*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
2-Fluorophenol (Surr)	*50*		*10 - 83*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
Nitrobenzene-d5 (Surr)	*77*		*41 - 121*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
Phenol-d5 (Surr)	*32*		*10 - 63*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
p-Terphenyl-d14 (Surr)	*71*		*28 - 134*	*06/12/23 07:37*	*06/14/23 00:56*	*50*

Client Sample ID: MHB-060623
Lab Sample ID: 410-129603-2

Date Collected: 06/06/23 10:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**110**		2.0		ug/L		06/14/23 08:40	06/21/23 09:07	1
Iron	**30000**		50		ug/L		06/14/23 08:40	06/21/23 09:07	1
Manganese	**3100**	**^2**	2.0		ug/L		06/14/23 08:40	06/21/23 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**43**		6.0		mg/L			06/08/23 09:29	1

Client Sample ID: MHC-060623
Lab Sample ID: 410-129603-3

Date Collected: 06/06/23 11:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
2-Butanone	5.0	U	5.0		ug/L			06/16/23 00:27	1
2-Hexanone	5.0	U	5.0		ug/L			06/16/23 00:27	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/16/23 00:27	1
Acetone	5.0	U	5.0		ug/L			06/16/23 00:27	1
Benzene	**3.2**		0.50		ug/L			06/16/23 00:27	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Bromoform	1.0	U	1.0		ug/L			06/16/23 00:27	1
Bromomethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Carbon disulfide	1.0	U	1.0		ug/L			06/16/23 00:27	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chloroform	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chloromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Ethylbenzene	**4.7**		0.50		ug/L			06/16/23 00:27	1
Freon 113	0.50	U cn	0.50		ug/L			06/16/23 00:27	1
Isopropylbenzene	**8.4**		0.50		ug/L			06/16/23 00:27	1
Methyl acetate	1.0	U	1.0		ug/L			06/16/23 00:27	1

Client Sample ID: MHC-060623
Date Collected: 06/06/23 11:00
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/16/23 00:27	1
Methylene Chloride	0.50	U	0.50		ug/L			06/16/23 00:27	1
Styrene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Toluene	**9.9**		0.50		ug/L			06/16/23 00:27	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Trichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Vinyl chloride	0.50	U	0.50		ug/L			06/16/23 00:27	1
Xylenes, Total	**17**		1.0		ug/L			06/16/23 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*06/16/23 00:27*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/16/23 00:27*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/16/23 00:27*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/16/23 00:27*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**30**	**cn**	5.0		ug/L			06/16/23 00:47	10
Methylcyclohexane	**40**	**cn**	5.0		ug/L			06/16/23 00:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*
Dibromofluoromethane (Surr)	*106*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*
4-Bromofluorobenzene (Surr)	*99*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*
Toluene-d8 (Surr)	*92*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4,5-Trichlorophenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4,6-Trichlorophenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dichlorophenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dimethylphenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dinitrophenol	100	U	100		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dinitrotoluene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,6-Dinitrotoluene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Chloronaphthalene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Chlorophenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Methylnaphthalene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Methylphenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Nitroaniline	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Nitrophenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
3,3'-Dichlorobenzidine	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
3-Nitroaniline	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4,6-Dinitro-2-methylphenol	100	U	100		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Bromophenyl phenyl ether	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Chloro-3-methylphenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHC-060623
Date Collected: 06/06/23 11:00
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Chlorophenyl phenyl ether	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Methylphenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Nitroaniline	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Nitrophenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Acenaphthene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Acenaphthylene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Acetophenone	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Anthracene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[a]anthracene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[a]pyrene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[b]fluoranthene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[g,h,i]perylene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[k]fluoranthene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
bis (2-chloroisopropyl) ether	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Bis(2-chloroethoxy)methane	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Bis(2-chloroethyl)ether	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Bis(2-ethylhexyl) phthalate	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Butyl benzyl phthalate	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Carbazole	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Chrysene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Dibenz(a,h)anthracene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Dibenzofuran	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Diethyl phthalate	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Dimethyl phthalate	51	U *1	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Di-n-butyl phthalate	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Di-n-octyl phthalate	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Fluoranthene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Fluorene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachlorobenzene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachlorobutadiene	20	U *1	20		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachlorocyclopentadiene	150	U *1	150		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachloroethane	20	U *1	20		ug/L		06/12/23 07:37	06/12/23 22:28	10
Indeno[1,2,3-cd]pyrene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Isophorone	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Naphthalene	20	U	20		ug/L		06/12/23 07:37	06/12/23 22:28	10
Nitrobenzene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
N-Nitrosodi-n-propylamine	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
N-Nitrosodiphenylamine	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Pentachlorophenol	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Phenanthrene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Phenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 22:28	10
Pyrene	51	U	51		ug/L		06/12/23 07:37	06/12/23 22:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 150*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
2-Fluorobiphenyl (Surr)	*69*		*32 - 115*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
2-Fluorophenol (Surr)	*26*		*10 - 83*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
Nitrobenzene-d5 (Surr)	*4*	*S1-*	*41 - 121*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
Phenol-d5 (Surr)	*24*		*10 - 63*	*06/12/23 07:37*	*06/12/23 22:28*	*10*

Client Sample ID: MHC-060623
Lab Sample ID: 410-129603-3

Date Collected: 06/06/23 11:00
Matrix: Water
Date Received: 06/07/23 09:55

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14 (Surr)	*59*		*28 - 134*	*06/12/23 07:37*	*06/12/23 22:28*	*10*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**94**		2.0		ug/L		06/14/23 08:40	06/21/23 08:40	1
Iron	**83000**		500		ug/L		06/14/23 08:40	06/21/23 11:30	10
Manganese	**4600**		20		ug/L		06/14/23 08:40	06/21/23 11:30	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**610**		30		mg/L			06/08/23 09:29	1

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4

Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
2-Butanone	5.0	U	5.0		ug/L			06/15/23 23:26	1
2-Hexanone	5.0	U	5.0		ug/L			06/15/23 23:26	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/15/23 23:26	1
Acetone	5.0	U	5.0		ug/L			06/15/23 23:26	1
Benzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Bromoform	1.0	U	1.0		ug/L			06/15/23 23:26	1
Bromomethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Carbon disulfide	1.0	U	1.0		ug/L			06/15/23 23:26	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chloroform	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chloromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Cyclohexane	**5.8**		0.50		ug/L			06/15/23 23:26	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4
Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Ethylbenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Freon 113	0.50	U cn	0.50		ug/L			06/15/23 23:26	1
Isopropylbenzene	**1.6**		0.50		ug/L			06/15/23 23:26	1
Methyl acetate	1.0	U	1.0		ug/L			06/15/23 23:26	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/15/23 23:26	1
Methylcyclohexane	**1.6**		0.50		ug/L			06/15/23 23:26	1
Methylene Chloride	0.50	U	0.50		ug/L			06/15/23 23:26	1
Styrene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Toluene	0.50	U	0.50		ug/L			06/15/23 23:26	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Trichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Vinyl chloride	0.50	U	0.50		ug/L			06/15/23 23:26	1
Xylenes, Total	1.0	U	1.0		ug/L			06/15/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/15/23 23:26*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/15/23 23:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/15/23 23:26*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/15/23 23:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4,6-Dinitro-2-methylphenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4
Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Dimethyl phthalate	5.2	U *1	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:05	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:05	1
Nitrobenzene	**15**		5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 23:05	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 150*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
2-Fluorobiphenyl (Surr)	*67*		*32 - 115*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 83*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
Nitrobenzene-d5 (Surr)	*64*		*41 - 121*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
Phenol-d5 (Surr)	*29*		*10 - 63*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
p-Terphenyl-d14 (Surr)	*59*		*28 - 134*	*06/12/23 07:37*	*06/12/23 23:05*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**27**		2.0		ug/L		06/14/23 08:40	06/21/23 09:03	1

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4

Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	25000		50		ug/L		06/14/23 08:40	06/21/23 09:03	1
Manganese	2700	^2	2.0		ug/L		06/14/23 08:40	06/21/23 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	57		7.5		mg/L			06/08/23 09:29	1

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5

Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
2-Butanone	5.0	U	5.0		ug/L			06/16/23 01:07	1
2-Hexanone	5.0	U	5.0		ug/L			06/16/23 01:07	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/16/23 01:07	1
Acetone	5.0	U	5.0		ug/L			06/16/23 01:07	1
Benzene	5.4		0.50		ug/L			06/16/23 01:07	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Bromoform	1.0	U	1.0		ug/L			06/16/23 01:07	1
Bromomethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Carbon disulfide	1.0	U	1.0		ug/L			06/16/23 01:07	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chloroform	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chloromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Ethylbenzene	0.51		0.50		ug/L			06/16/23 01:07	1
Freon 113	0.50	U cn	0.50		ug/L			06/16/23 01:07	1
Isopropylbenzene	21		0.50		ug/L			06/16/23 01:07	1
Methyl acetate	1.0	U	1.0		ug/L			06/16/23 01:07	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/16/23 01:07	1

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5
Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50	U	0.50		ug/L			06/16/23 01:07	1
Styrene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Toluene	**1.2**		0.50		ug/L			06/16/23 01:07	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Trichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Vinyl chloride	0.50	U	0.50		ug/L			06/16/23 01:07	1
Xylenes, Total	**2.4**		1.0		ug/L			06/16/23 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*06/16/23 01:07*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/16/23 01:07*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*06/16/23 01:07*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/16/23 01:07*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**140**	**cn**	5.0		ug/L			06/16/23 01:28	10
Methylcyclohexane	**160**	**cn**	5.0		ug/L			06/16/23 01:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*
Dibromofluoromethane (Surr)	*106*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*
4-Bromofluorobenzene (Surr)	*101*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*
Toluene-d8 (Surr)	*93*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4,6-Dinitro-2-methylphenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5
Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Dimethyl phthalate	5.2	U *1	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:26	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:26	1
Nitrobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 23:26	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*10 - 150*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
2-Fluorobiphenyl (Surr)	*58*		*32 - 115*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
2-Fluorophenol (Surr)	*29*		*10 - 83*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
Nitrobenzene-d5 (Surr)	*66*		*41 - 121*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
Phenol-d5 (Surr)	*21*		*10 - 63*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
p-Terphenyl-d14 (Surr)	*49*		*28 - 134*	*06/12/23 07:37*	*06/12/23 23:26*	*1*

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5

Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**47**		2.0		ug/L		06/14/23 08:40	06/21/23 09:00	1
Iron	**34000**		50		ug/L		06/14/23 08:40	06/21/23 09:00	1
Manganese	**4800**		20		ug/L		06/14/23 08:40	06/21/23 11:42	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**31**		6.0		mg/L			06/08/23 09:29	1

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6

Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
2-Butanone	10	U	10		ug/L			06/16/23 02:29	2
2-Hexanone	10	U	10		ug/L			06/16/23 02:29	2
4-Methyl-2-pentanone	10	U	10		ug/L			06/16/23 02:29	2
Acetone	10	U	10		ug/L			06/16/23 02:29	2
Benzene	**11**		1.0		ug/L			06/16/23 02:29	2
Bromodichloromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Bromoform	2.0	U	2.0		ug/L			06/16/23 02:29	2
Bromomethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Carbon disulfide	2.0	U	2.0		ug/L			06/16/23 02:29	2
Carbon tetrachloride	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chloroform	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chloromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Dibromochloromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Ethylbenzene	**6.2**		1.0		ug/L			06/16/23 02:29	2
Freon 113	1.0	U cn	1.0		ug/L			06/16/23 02:29	2
Isopropylbenzene	**32**		1.0		ug/L			06/16/23 02:29	2
Methyl acetate	2.0	U	2.0		ug/L			06/16/23 02:29	2

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6
Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/16/23 02:29	2
Methylene Chloride	1.0	U	1.0		ug/L			06/16/23 02:29	2
Styrene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Tetrachloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Toluene	**3.0**		1.0		ug/L			06/16/23 02:29	2
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Trichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Vinyl chloride	1.0	U	1.0		ug/L			06/16/23 02:29	2
Xylenes, Total	**7.0**		2.0		ug/L			06/16/23 02:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/16/23 02:29*	*2*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/16/23 02:29*	*2*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/16/23 02:29*	*2*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/16/23 02:29*	*2*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**270**		10		ug/L			06/16/23 02:49	20
Methylcyclohexane	**420**		10		ug/L			06/16/23 02:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/16/23 02:49*	*20*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/16/23 02:49*	*20*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/16/23 02:49*	*20*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/16/23 02:49*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4,6-Dinitro-2-methylphenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHG-060623
Date Collected: 06/06/23 11:45
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Dimethyl phthalate	5.2	U *1	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:47	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:47	1
Nitrobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 23:47	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 150*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
2-Fluorobiphenyl (Surr)	*67*		*32 - 115*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 83*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
Nitrobenzene-d5 (Surr)	*71*		*41 - 121*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
Phenol-d5 (Surr)	*31*		*10 - 63*	*06/12/23 07:37*	*06/12/23 23:47*	*1*

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6

Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14 (Surr)	*56*		*28 - 134*	*06/12/23 07:37*	*06/12/23 23:47*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**62**		2.0		ug/L		06/14/23 08:40	06/21/23 08:58	1
Iron	**30000**		50		ug/L		06/14/23 08:40	06/21/23 08:58	1
Manganese	**4100**		20		ug/L		06/14/23 08:40	06/21/23 11:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**24**		5.5		mg/L			06/08/23 09:29	1

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7

Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1,2,2-Tetrachloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1,2-Trichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1-Dichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1-Dichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
1,2,4-Trichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dibromo-3-Chloropropane	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dibromoethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dichloropropane	100	U cn	100		ug/L			06/16/23 03:10	200
1,3-Dichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
1,4-Dichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
2-Butanone	1000	U cn	1000		ug/L			06/16/23 03:10	200
2-Hexanone	1000	U cn	1000		ug/L			06/16/23 03:10	200
4-Methyl-2-pentanone	1000	U cn	1000		ug/L			06/16/23 03:10	200
Acetone	1000	U cn	1000		ug/L			06/16/23 03:10	200
Benzene	100	U cn	100		ug/L			06/16/23 03:10	200
Bromodichloromethane	100	U cn	100		ug/L			06/16/23 03:10	200
Bromoform	200	U cn	200		ug/L			06/16/23 03:10	200
Bromomethane	100	U cn	100		ug/L			06/16/23 03:10	200
Carbon disulfide	200	U cn	200		ug/L			06/16/23 03:10	200
Carbon tetrachloride	100	U cn	100		ug/L			06/16/23 03:10	200
Chlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
Chloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
Chloroform	100	U cn	100		ug/L			06/16/23 03:10	200
Chloromethane	100	U cn	100		ug/L			06/16/23 03:10	200
cis-1,2-Dichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
cis-1,3-Dichloropropene	100	U cn	100		ug/L			06/16/23 03:10	200
Cyclohexane	**180**	**cn**	100		ug/L			06/16/23 03:10	200
Dibromochloromethane	100	U cn	100		ug/L			06/16/23 03:10	200

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	100	U cn	100		ug/L			06/16/23 03:10	200
Ethylbenzene	100	U cn	100		ug/L			06/16/23 03:10	200
Freon 113	100	U cn	100		ug/L			06/16/23 03:10	200
Isopropylbenzene	100	U cn	100		ug/L			06/16/23 03:10	200
Methyl acetate	200	U cn	200		ug/L			06/16/23 03:10	200
Methyl tertiary butyl ether	100	U cn	100		ug/L			06/16/23 03:10	200
Methylcyclohexane	**260**	**cn**	100		ug/L			06/16/23 03:10	200
Methylene Chloride	100	U cn	100		ug/L			06/16/23 03:10	200
Styrene	100	U cn	100		ug/L			06/16/23 03:10	200
Tetrachloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
Toluene	100	U cn	100		ug/L			06/16/23 03:10	200
trans-1,2-Dichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
trans-1,3-Dichloropropene	100	U cn	100		ug/L			06/16/23 03:10	200
Trichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
Trichlorofluoromethane	100	U cn	100		ug/L			06/16/23 03:10	200
Vinyl chloride	100	U cn	100		ug/L			06/16/23 03:10	200
Xylenes, Total	200	U cn	200		ug/L			06/16/23 03:10	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*
Dibromofluoromethane (Surr)	*107*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*
4-Bromofluorobenzene (Surr)	*99*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*
Toluene-d8 (Surr)	*91*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4,6-Dinitro-2-methylphenol	10	U	10		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Dimethyl phthalate	5.2	U *1	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/13/23 00:08	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/13/23 00:08	1
Nitrobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/13/23 00:08	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 150*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
2-Fluorobiphenyl (Surr)	*54*		*32 - 115*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 83*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
Nitrobenzene-d5 (Surr)	*56*		*41 - 121*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
Phenol-d5 (Surr)	*26*		*10 - 63*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
p-Terphenyl-d14 (Surr)	*46*		*28 - 134*	*06/12/23 07:37*	*06/13/23 00:08*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**28**		2.0		ug/L		06/14/23 08:40	06/21/23 08:56	1

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7

Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	20000		50		ug/L		06/14/23 08:40	06/21/23 08:56	1
Manganese	3500	^2	2.0		ug/L		06/14/23 08:40	06/21/23 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	44		6.0		mg/L			06/08/23 09:29	1

Client Sample ID: Trip blank
Lab Sample ID: 410-129603-8

Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 20:12	1
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 20:12	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 20:12	1
Acetone	5.0	U	5.0		ug/L			06/14/23 20:12	1
Benzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 20:12	1
Bromomethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 20:12	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Cyclohexane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 20:12	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 20:12	1

Client Sample ID: Trip blank
Lab Sample ID: 410-129603-8
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 20:12	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 20:12	1
Styrene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Toluene	0.50	U	0.50		ug/L			06/14/23 20:12	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 20:12	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/14/23 20:12*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/14/23 20:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/14/23 20:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/14/23 20:12*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-129603-1	MHA-060623	93	87	87	119
410-129603-1 - DL	MHA-060623	105	106	100	92
410-129603-2	MHB-060623	105	105	106	96
410-129603-2 - DL	MHB-060623	103 cn	106 cn	98 cn	91 cn
410-129603-3	MHC-060623	101	105	102	96
410-129603-3 - DL	MHC-060623	102 cn	106 cn	99 cn	92 cn
410-129603-4	MHD-060623	105	106	99	91
410-129603-5	MHF-060623	106	106	117	106
410-129603-5 - DL	MHF-060623	105 cn	106 cn	101 cn	93 cn
410-129603-6	MHG-060623	104	106	105	101
410-129603-6 - DL	MHG-060623	103	105	99	92
410-129603-7	MHH-060623	107 cn	107 cn	99 cn	91 cn
410-129603-8	Trip blank	105	102	99	99
LCS 410-386398/4	Lab Control Sample	100	91	93	113
LCS 410-386672/4	Lab Control Sample	100	101	100	99
LCS 410-387239/4	Lab Control Sample	102	107	99	92
LCSD 410-386398/5	Lab Control Sample Dup	103	91	94	113
MB 410-386398/8	Method Blank	97	89	89	113
MB 410-386672/6	Method Blank	103	101	100	99
MB 410-387239/6	Method Blank	104	106	100	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-129603-1	MHA-060623	70	66	42	69	28	50
410-129603-2	MHB-060623	76	65	42	64	31	62
410-129603-2 - DL	MHB-060623	64	78	50	77	32	71
410-129603-3	MHC-060623	61	69	26	4 S1-	24	59
410-129603-4	MHD-060623	73	67	43	64	29	59
410-129603-5	MHF-060623	62	58	29	66	21	49
410-129603-6	MHG-060623	80	67	47	71	31	56
410-129603-7	MHH-060623	69	54	39	56	26	46
LCS 410-385310/2-A	Lab Control Sample	94	68	54	75	39	69
LCSD 410-385310/3-A	Lab Control Sample Dup	79	55	39	58	30	75
MB 410-385310/1-A	Method Blank	85	73	58	80	40	95

Surrogate Legend

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

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-386398/8
Matrix: Water
Analysis Batch: 386398

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	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 11:27	1
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 11:27	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 11:27	1
Acetone	5.0	U	5.0		ug/L			06/14/23 11:27	1
Benzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 11:27	1
Bromomethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 11:27	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Cyclohexane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 11:27	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 11:27	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 11:27	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 11:27	1
Styrene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Toluene	0.50	U	0.50		ug/L			06/14/23 11:27	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 11:27	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 11:27	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-386398/8
Matrix: Water
Analysis Batch: 386398

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		06/14/23 11:27	1
Dibromofluoromethane (Surr)	89		80 - 120		06/14/23 11:27	1
4-Bromofluorobenzene (Surr)	89		80 - 120		06/14/23 11:27	1
Toluene-d8 (Surr)	113		80 - 120		06/14/23 11:27	1

Lab Sample ID: LCS 410-386398/4
Matrix: Water
Analysis Batch: 386398

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	5.00	4.35		ug/L		87	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.66		ug/L		113	75 - 123
1,1,2-Trichloroethane	5.00	5.42		ug/L		108	80 - 120
1,1-Dichloroethane	5.00	4.56		ug/L		91	74 - 120
1,1-Dichloroethene	5.00	4.85		ug/L		97	80 - 131
1,2,4-Trichlorobenzene	5.00	5.71		ug/L		114	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.78		ug/L		96	56 - 148
1,2-Dibromoethane	5.00	5.25		ug/L		105	80 - 120
1,2-Dichlorobenzene	5.00	5.58		ug/L		112	80 - 120
1,2-Dichloroethane	5.00	3.95		ug/L		79	69 - 122
1,2-Dichloropropane	5.00	4.70		ug/L		94	80 - 120
1,3-Dichlorobenzene	5.00	5.42		ug/L		108	80 - 120
1,4-Dichlorobenzene	5.00	5.79		ug/L		116	80 - 120
2-Butanone	62.5	68.4		ug/L		109	59 - 141
2-Hexanone	62.5	67.3		ug/L		108	52 - 140
4-Methyl-2-pentanone	62.5	65.7		ug/L		105	55 - 140
Acetone	62.5	68.3		ug/L		109	60 - 146
Benzene	5.00	4.76		ug/L		95	80 - 120
Bromodichloromethane	5.00	4.25		ug/L		85	73 - 124
Bromoform	5.00	4.96		ug/L		99	49 - 144
Bromomethane	5.00	3.76		ug/L		75	60 - 136
Carbon disulfide	5.00	4.85		ug/L		97	67 - 130
Carbon tetrachloride	5.00	4.45		ug/L		89	64 - 141
Chlorobenzene	5.00	5.29		ug/L		106	80 - 120
Chloroethane	5.00	3.86		ug/L		77	63 - 120
Chloroform	5.00	4.36		ug/L		87	80 - 120
Chloromethane	5.00	3.91		ug/L		78	56 - 124
cis-1,2-Dichloroethene	5.00	4.67		ug/L		93	80 - 122
cis-1,3-Dichloropropene	5.00	4.30		ug/L		86	67 - 121
Cyclohexane	5.00	4.88		ug/L		98	69 - 120
Dibromochloromethane	5.00	5.20		ug/L		104	64 - 138
Dichlorodifluoromethane	5.00	3.16		ug/L		63	43 - 123
Ethylbenzene	5.00	5.48		ug/L		110	80 - 120
Freon 113	5.00	4.44		ug/L		89	75 - 133
Isopropylbenzene	5.00	5.49		ug/L		110	80 - 120
Methyl acetate	5.00	5.64		ug/L		113	59 - 143
Methyl tertiary butyl ether	5.00	4.27		ug/L		85	69 - 120
Methylcyclohexane	5.00	4.59		ug/L		92	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-386398/4
Matrix: Water
Analysis Batch: 386398

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	4.68		ug/L		94	80 - 120
Styrene	5.00	5.34		ug/L		107	80 - 120
Tetrachloroethene	5.00	5.39		ug/L		108	80 - 120
Toluene	5.00	5.47		ug/L		109	80 - 120
trans-1,2-Dichloroethene	5.00	4.51		ug/L		90	80 - 122
trans-1,3-Dichloropropene	5.00	5.32		ug/L		106	61 - 129
Trichloroethene	5.00	4.31		ug/L		86	80 - 120
Trichlorofluoromethane	5.00	3.45		ug/L		69	62 - 136
Vinyl chloride	5.00	3.68		ug/L		74	60 - 125
Xylenes, Total	15.0	16.2		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 120*

Lab Sample ID: LCSD 410-386398/5
Matrix: Water
Analysis Batch: 386398

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
1,1,1-Trichloroethane	5.00	4.51		ug/L		90	78 - 126	4	30
1,1,2,2-Tetrachloroethane	5.00	5.71		ug/L		114	75 - 123	1	30
1,1,2-Trichloroethane	5.00	5.43		ug/L		109	80 - 120	0	30
1,1-Dichloroethane	5.00	4.70		ug/L		94	74 - 120	3	30
1,1-Dichloroethene	5.00	4.91		ug/L		98	80 - 131	1	30
1,2,4-Trichlorobenzene	5.00	5.90		ug/L		118	68 - 122	3	30
1,2-Dibromo-3-Chloropropane	5.00	4.83		ug/L		97	56 - 148	1	30
1,2-Dibromoethane	5.00	5.41		ug/L		108	80 - 120	3	30
1,2-Dichlorobenzene	5.00	5.60		ug/L		112	80 - 120	0	30
1,2-Dichloroethane	5.00	4.11		ug/L		82	69 - 122	4	30
1,2-Dichloropropane	5.00	4.87		ug/L		97	80 - 120	4	30
1,3-Dichlorobenzene	5.00	5.48		ug/L		110	80 - 120	1	30
1,4-Dichlorobenzene	5.00	5.68		ug/L		114	80 - 120	2	30
2-Butanone	62.5	66.9		ug/L		107	59 - 141	2	30
2-Hexanone	62.5	65.4		ug/L		105	52 - 140	3	30
4-Methyl-2-pentanone	62.5	66.1		ug/L		106	55 - 140	1	30
Acetone	62.5	67.2		ug/L		107	60 - 146	2	30
Benzene	5.00	4.91		ug/L		98	80 - 120	3	30
Bromodichloromethane	5.00	4.41		ug/L		88	73 - 124	4	30
Bromoform	5.00	5.12		ug/L		102	49 - 144	3	30
Bromomethane	5.00	3.91		ug/L		78	60 - 136	4	30
Carbon disulfide	5.00	4.97		ug/L		99	67 - 130	2	30
Carbon tetrachloride	5.00	4.58		ug/L		92	64 - 141	3	30
Chlorobenzene	5.00	5.37		ug/L		107	80 - 120	2	30
Chloroethane	5.00	3.99		ug/L		80	63 - 120	3	30
Chloroform	5.00	4.52		ug/L		90	80 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-386398/5
Matrix: Water
Analysis Batch: 386398

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
Chloromethane	5.00	4.08		ug/L		82	56 - 124	4	30
cis-1,2-Dichloroethene	5.00	4.82		ug/L		96	80 - 122	3	30
cis-1,3-Dichloropropene	5.00	4.46		ug/L		89	67 - 121	4	30
Cyclohexane	5.00	4.92		ug/L		98	69 - 120	1	30
Dibromochloromethane	5.00	5.35		ug/L		107	64 - 138	3	30
Dichlorodifluoromethane	5.00	3.23		ug/L		65	43 - 123	2	30
Ethylbenzene	5.00	5.63		ug/L		113	80 - 120	3	30
Freon 113	5.00	4.66		ug/L		93	75 - 133	5	30
Isopropylbenzene	5.00	5.62		ug/L		112	80 - 120	2	30
Methyl acetate	5.00	5.61		ug/L		112	59 - 143	0	30
Methyl tertiary butyl ether	5.00	4.42		ug/L		88	69 - 120	3	30
Methylcyclohexane	5.00	4.61		ug/L		92	80 - 120	0	30
Methylene Chloride	5.00	4.86		ug/L		97	80 - 120	4	30
Styrene	5.00	5.42		ug/L		108	80 - 120	1	30
Tetrachloroethene	5.00	5.54		ug/L		111	80 - 120	3	30
Toluene	5.00	5.68		ug/L		114	80 - 120	4	30
trans-1,2-Dichloroethene	5.00	4.70		ug/L		94	80 - 122	4	30
trans-1,3-Dichloropropene	5.00	5.40		ug/L		108	61 - 129	2	30
Trichloroethene	5.00	4.48		ug/L		90	80 - 120	4	30
Trichlorofluoromethane	5.00	3.42		ug/L		68	62 - 136	1	30
Vinyl chloride	5.00	3.84		ug/L		77	60 - 125	4	30
Xylenes, Total	15.0	16.7		ug/L		111	80 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 120*

Lab Sample ID: MB 410-386672/6
Matrix: Water
Analysis Batch: 386672

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	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 19:27	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-386672/6
Matrix: Water
Analysis Batch: 386672

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 19:27	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 19:27	1
Acetone	5.0	U	5.0		ug/L			06/14/23 19:27	1
Benzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 19:27	1
Bromomethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 19:27	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Cyclohexane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 19:27	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 19:27	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 19:27	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 19:27	1
Styrene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Toluene	0.50	U	0.50		ug/L			06/14/23 19:27	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 19:27	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 19:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/14/23 19:27*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/14/23 19:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/14/23 19:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/14/23 19:27*	*1*

Lab Sample ID: LCS 410-386672/4
Matrix: Water
Analysis Batch: 386672

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	5.00	4.95		ug/L		99	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.71		ug/L		94	75 - 123

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-386672/4
Matrix: Water
Analysis Batch: 386672

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	5.00	4.78		ug/L		96	80 - 120
1,1-Dichloroethane	5.00	4.74		ug/L		95	74 - 120
1,1-Dichloroethene	5.00	4.85		ug/L		97	80 - 131
1,2,4-Trichlorobenzene	5.00	5.02		ug/L		100	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.88		ug/L		98	56 - 148
1,2-Dibromoethane	5.00	4.93		ug/L		99	80 - 120
1,2-Dichlorobenzene	5.00	4.62		ug/L		92	80 - 120
1,2-Dichloroethane	5.00	4.84		ug/L		97	69 - 122
1,2-Dichloropropane	5.00	4.90		ug/L		98	80 - 120
1,3-Dichlorobenzene	5.00	4.67		ug/L		93	80 - 120
1,4-Dichlorobenzene	5.00	4.89		ug/L		98	80 - 120
2-Butanone	62.5	63.1		ug/L		101	59 - 141
2-Hexanone	62.5	59.8		ug/L		96	52 - 140
4-Methyl-2-pentanone	62.5	58.2		ug/L		93	55 - 140
Acetone	62.5	64.6		ug/L		103	60 - 146
Benzene	5.00	4.91		ug/L		98	80 - 120
Bromodichloromethane	5.00	4.88		ug/L		98	73 - 124
Bromoform	5.00	4.52		ug/L		90	49 - 144
Bromomethane	5.00	4.02		ug/L		80	60 - 136
Carbon disulfide	5.00	4.72		ug/L		94	67 - 130
Carbon tetrachloride	5.00	4.98		ug/L		100	64 - 141
Chlorobenzene	5.00	4.75		ug/L		95	80 - 120
Chloroethane	5.00	4.12		ug/L		82	63 - 120
Chloroform	5.00	4.83		ug/L		97	80 - 120
Chloromethane	5.00	3.90		ug/L		78	56 - 124
cis-1,2-Dichloroethene	5.00	4.90		ug/L		98	80 - 122
cis-1,3-Dichloropropene	5.00	4.76		ug/L		95	67 - 121
Cyclohexane	5.00	4.83		ug/L		97	69 - 120
Dibromochloromethane	5.00	4.81		ug/L		96	64 - 138
Dichlorodifluoromethane	5.00	3.36		ug/L		67	43 - 123
Ethylbenzene	5.00	4.81		ug/L		96	80 - 120
Freon 113	5.00	4.86		ug/L		97	75 - 133
Isopropylbenzene	5.00	4.96		ug/L		99	80 - 120
Methyl acetate	5.00	5.62		ug/L		112	59 - 143
Methyl tertiary butyl ether	5.00	4.78		ug/L		96	69 - 120
Methylcyclohexane	5.00	4.94		ug/L		99	80 - 120
Methylene Chloride	5.00	4.90		ug/L		98	80 - 120
Styrene	5.00	4.94		ug/L		99	80 - 120
Tetrachloroethene	5.00	4.79		ug/L		96	80 - 120
Toluene	5.00	4.77		ug/L		95	80 - 120
trans-1,2-Dichloroethene	5.00	4.73		ug/L		95	80 - 122
trans-1,3-Dichloropropene	5.00	4.82		ug/L		96	61 - 129
Trichloroethene	5.00	4.76		ug/L		95	80 - 120
Trichlorofluoromethane	5.00	4.02		ug/L		80	62 - 136
Vinyl chloride	5.00	3.76		ug/L		75	60 - 125
Xylenes, Total	15.0	14.7		ug/L		98	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-386672/4
Matrix: Water
Analysis Batch: 386672

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 410-387239/6
Matrix: Water
Analysis Batch: 387239

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	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
2-Butanone	5.0	U	5.0		ug/L			06/15/23 19:01	1
2-Hexanone	5.0	U	5.0		ug/L			06/15/23 19:01	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/15/23 19:01	1
Acetone	5.0	U	5.0		ug/L			06/15/23 19:01	1
Benzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Bromoform	1.0	U	1.0		ug/L			06/15/23 19:01	1
Bromomethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Carbon disulfide	1.0	U	1.0		ug/L			06/15/23 19:01	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chloroform	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chloromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Cyclohexane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Ethylbenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Freon 113	0.50	U	0.50		ug/L			06/15/23 19:01	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Methyl acetate	1.0	U	1.0		ug/L			06/15/23 19:01	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/15/23 19:01	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/15/23 19:01	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-387239/6
Matrix: Water
Analysis Batch: 387239

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50	U	0.50		ug/L			06/15/23 19:01	1
Styrene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Toluene	0.50	U	0.50		ug/L			06/15/23 19:01	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Trichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Vinyl chloride	0.50	U	0.50		ug/L			06/15/23 19:01	1
Xylenes, Total	1.0	U	1.0		ug/L			06/15/23 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/15/23 19:01*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/15/23 19:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/15/23 19:01*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/15/23 19:01*	*1*

Lab Sample ID: LCS 410-387239/4
Matrix: Water
Analysis Batch: 387239

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	5.00	5.85		ug/L		117	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.71		ug/L		94	75 - 123
1,1,2-Trichloroethane	5.00	5.05		ug/L		101	80 - 120
1,1-Dichloroethane	5.00	5.48		ug/L		110	74 - 120
1,1-Dichloroethene	5.00	5.85		ug/L		117	80 - 131
1,2,4-Trichlorobenzene	5.00	5.38		ug/L		108	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.91		ug/L		98	56 - 148
1,2-Dibromoethane	5.00	5.21		ug/L		104	80 - 120
1,2-Dichlorobenzene	5.00	5.05		ug/L		101	80 - 120
1,2-Dichloroethane	5.00	5.65		ug/L		113	69 - 122
1,2-Dichloropropane	5.00	5.45		ug/L		109	80 - 120
1,3-Dichlorobenzene	5.00	5.06		ug/L		101	80 - 120
1,4-Dichlorobenzene	5.00	5.40		ug/L		108	80 - 120
2-Butanone	62.5	52.6		ug/L		84	59 - 141
2-Hexanone	62.5	52.1		ug/L		83	52 - 140
4-Methyl-2-pentanone	62.5	50.4		ug/L		81	55 - 140
Acetone	62.5	55.9		ug/L		89	60 - 146
Benzene	5.00	5.83		ug/L		117	80 - 120
Bromodichloromethane	5.00	5.51		ug/L		110	73 - 124
Bromoform	5.00	4.21		ug/L		84	49 - 144
Bromomethane	5.00	4.58		ug/L		92	60 - 136
Carbon disulfide	5.00	5.38		ug/L		108	67 - 130
Carbon tetrachloride	5.00	5.86		ug/L		117	64 - 141
Chlorobenzene	5.00	5.09		ug/L		102	80 - 120
Chloroethane	5.00	4.38		ug/L		88	63 - 120
Chloroform	5.00	5.61		ug/L		112	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-387239/4
Matrix: Water
Analysis Batch: 387239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	5.00	3.73		ug/L		75	56 - 124
cis-1,2-Dichloroethene	5.00	5.98		ug/L		120	80 - 122
cis-1,3-Dichloropropene	5.00	5.53		ug/L		111	67 - 121
Cyclohexane	5.00	5.52		ug/L		110	69 - 120
Dibromochloromethane	5.00	4.72		ug/L		94	64 - 138
Dichlorodifluoromethane	5.00	3.83		ug/L		77	43 - 123
Ethylbenzene	5.00	5.15		ug/L		103	80 - 120
Freon 113	5.00	6.05		ug/L		121	75 - 133
Isopropylbenzene	5.00	5.25		ug/L		105	80 - 120
Methyl acetate	5.00	4.45		ug/L		89	59 - 143
Methyl tertiary butyl ether	5.00	5.62		ug/L		112	69 - 120
Methylcyclohexane	5.00	5.97		ug/L		119	80 - 120
Methylene Chloride	5.00	5.78		ug/L		116	80 - 120
Styrene	5.00	5.22		ug/L		104	80 - 120
Tetrachloroethene	5.00	5.25		ug/L		105	80 - 120
Toluene	5.00	5.13		ug/L		103	80 - 120
trans-1,2-Dichloroethene	5.00	5.77		ug/L		115	80 - 122
trans-1,3-Dichloropropene	5.00	4.96		ug/L		99	61 - 129
Trichloroethene	5.00	5.71		ug/L		114	80 - 120
Trichlorofluoromethane	5.00	4.20		ug/L		84	62 - 136
Vinyl chloride	5.00	4.04		ug/L		81	60 - 125
Xylenes, Total	15.0	15.6		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*

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

Lab Sample ID: MB 410-385310/1-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4,5-Trichlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4,6-Trichlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dichlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dimethylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dinitrotoluene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,6-Dinitrotoluene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Chloronaphthalene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Chlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Methylnaphthalene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Methylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Nitroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1

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

Lab Sample ID: MB 410-385310/1-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
3,3'-Dichlorobenzidine	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
3-Nitroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4,6-Dinitro-2-methylphenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Bromophenyl phenyl ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Chloro-3-methylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Chloroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Chlorophenyl phenyl ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Methylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Nitroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Nitrophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Acenaphthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Acenaphthylene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Acetophenone	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Anthracene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[a]anthracene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[a]pyrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[b]fluoranthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[g,h,i]perylene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[k]fluoranthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
bis (2-chloroisopropyl) ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Bis(2-chloroethoxy)methane	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Bis(2-chloroethyl)ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Butyl benzyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Carbazole	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Chrysene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Dibenz(a,h)anthracene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Dibenzofuran	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Diethyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Dimethyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Di-n-butyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Di-n-octyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Fluoranthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Fluorene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachlorobenzene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachlorobutadiene	2.0	U	2.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachlorocyclopentadiene	15	U	15		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachloroethane	2.0	U	2.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Indeno[1,2,3-cd]pyrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Isophorone	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Naphthalene	2.0	U	2.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Nitrobenzene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
N-Nitrosodi-n-propylamine	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
N-Nitrosodiphenylamine	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Pentachlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Phenanthrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Pyrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
2-Fluorobiphenyl (Surr)	*73*		*32 - 115*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
2-Fluorophenol (Surr)	*58*		*10 - 83*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
Nitrobenzene-d5 (Surr)	*80*		*41 - 121*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
Phenol-d5 (Surr)	*40*		*10 - 63*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
p-Terphenyl-d14 (Surr)	*95*		*28 - 134*	*06/12/23 07:37*	*06/12/23 17:21*	*1*

Lab Sample ID: LCS 410-385310/2-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	44.3		ug/L		89	60 - 119
2,4,5-Trichlorophenol	50.0	49.2		ug/L		98	69 - 133
2,4,6-Trichlorophenol	50.0	47.4		ug/L		95	37 - 144
2,4-Dichlorophenol	50.0	43.8		ug/L		88	39 - 135
2,4-Dimethylphenol	50.0	44.9		ug/L		90	32 - 120
2,4-Dinitrophenol	100	113		ug/L		113	10 - 191
2,4-Dinitrotoluene	50.0	55.3		ug/L		111	39 - 139
2,6-Dinitrotoluene	50.0	50.0		ug/L		100	50 - 158
2-Chloronaphthalene	50.0	40.0		ug/L		80	60 - 120
2-Chlorophenol	50.0	44.5		ug/L		89	23 - 134
2-Methylnaphthalene	50.0	40.9		ug/L		82	50 - 114
2-Methylphenol	50.0	44.6		ug/L		89	52 - 113
2-Nitroaniline	50.0	55.6		ug/L		111	60 - 125
2-Nitrophenol	50.0	58.3		ug/L		117	29 - 182
3,3'-Dichlorobenzidine	100	41.0		ug/L		41	10 - 200
3-Nitroaniline	50.0	47.5		ug/L		95	36 - 147
4,6-Dinitro-2-methylphenol	100	166		ug/L		166	10 - 181
4-Bromophenyl phenyl ether	50.0	47.1		ug/L		94	53 - 127
4-Chloro-3-methylphenol	50.0	45.5		ug/L		91	22 - 147
4-Chloroaniline	50.0	37.3		ug/L		75	33 - 109
4-Chlorophenyl phenyl ether	50.0	43.8		ug/L		88	25 - 158
4-Methylphenol	50.0	33.1		ug/L		66	47 - 96
4-Nitroaniline	50.0	48.4		ug/L		97	36 - 150
4-Nitrophenol	100	53.2		ug/L		53	10 - 132
Acenaphthene	50.0	44.6		ug/L		89	47 - 145
Acenaphthylene	50.0	41.9		ug/L		84	33 - 145
Acetophenone	50.0	46.4		ug/L		93	55 - 122
Anthracene	50.0	47.5		ug/L		95	27 - 133
Benzo[a]anthracene	50.0	43.6		ug/L		87	33 - 143
Benzo[a]pyrene	50.0	40.0		ug/L		80	17 - 163
Benzo[b]fluoranthene	50.0	36.6		ug/L		73	24 - 159
Benzo[g,h,i]perylene	50.0	44.0		ug/L		88	10 - 200
Benzo[k]fluoranthene	50.0	44.2		ug/L		88	11 - 162
bis (2-chloroisopropyl) ether	50.0	35.9		ug/L		72	48 - 110
Bis(2-chloroethoxy)methane	50.0	42.9		ug/L		86	33 - 184
Bis(2-chloroethyl)ether	50.0	45.4		ug/L		91	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	47.4		ug/L		95	10 - 158
Butyl benzyl phthalate	50.0	46.4		ug/L		93	10 - 152
Carbazole	50.0	44.3		ug/L		89	62 - 127

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

Lab Sample ID: LCS 410-385310/2-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385310

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chrysene			50.0	44.9		ug/L		90	17 - 168		
Dibenz(a,h)anthracene			50.0	42.8		ug/L		86	10 - 200		
Dibenzofuran			50.0	45.7		ug/L		91	60 - 126		
Diethyl phthalate			50.0	43.7		ug/L		87	10 - 120		
Dimethyl phthalate			50.0	34.1		ug/L		68	10 - 120		
Di-n-butyl phthalate			50.0	42.9		ug/L		86	10 - 120		
Di-n-octyl phthalate			50.0	52.4		ug/L		105	10 - 146		
Fluoranthene			50.0	40.6		ug/L		81	26 - 137		
Fluorene			50.0	47.3		ug/L		95	59 - 121		
Hexachlorobenzene			50.0	42.5		ug/L		85	10 - 152		
Hexachlorobutadiene			50.0	25.3		ug/L		51	24 - 120		
Hexachlorocyclopentadiene			50.0	13.0	J	ug/L		26	10 - 87		
Hexachloroethane			50.0	30.5		ug/L		61	40 - 120		
Indeno[1,2,3-cd]pyrene			50.0	43.6		ug/L		87	10 - 171		
Isophorone			50.0	44.0		ug/L		88	21 - 196		
Naphthalene			50.0	42.0		ug/L		84	21 - 133		
Nitrobenzene			50.0	43.0		ug/L		86	35 - 180		
N-Nitrosodi-n-propylamine			50.0	42.4		ug/L		85	10 - 200		
N-Nitrosodiphenylamine			42.5	40.6		ug/L		95	63 - 127		
Pentachlorophenol			100	72.0		ug/L		72	14 - 176		
Phenanthrene			50.0	47.4		ug/L		95	54 - 120		
Phenol			50.0	23.8		ug/L		48	10 - 120		
Pyrene			50.0	46.5		ug/L		93	52 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*94*		*10 - 150*
2-Fluorobiphenyl (Surr)	*68*		*32 - 115*
2-Fluorophenol (Surr)	*54*		*10 - 83*
Nitrobenzene-d5 (Surr)	*75*		*41 - 121*
Phenol-d5 (Surr)	*39*		*10 - 63*
p-Terphenyl-d14 (Surr)	*69*		*28 - 134*

Lab Sample ID: LCSD 410-385310/3-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			50.0	37.3		ug/L		75	60 - 119	17	30
2,4,5-Trichlorophenol			50.0	43.1		ug/L		86	69 - 133	13	30
2,4,6-Trichlorophenol			50.0	41.6		ug/L		83	37 - 144	13	30
2,4-Dichlorophenol			50.0	36.7		ug/L		73	39 - 135	18	30
2,4-Dimethylphenol			50.0	37.4		ug/L		75	32 - 120	18	30
2,4-Dinitrophenol			100	118		ug/L		118	10 - 191	5	30
2,4-Dinitrotoluene			50.0	48.1		ug/L		96	39 - 139	14	30
2,6-Dinitrotoluene			50.0	41.2		ug/L		82	50 - 158	19	30
2-Chloronaphthalene			50.0	34.2		ug/L		68	60 - 120	16	24
2-Chlorophenol			50.0	33.4		ug/L		67	23 - 134	28	30
2-Methylnaphthalene			50.0	32.7		ug/L		65	50 - 114	22	30

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

Lab Sample ID: LCSD 410-385310/3-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385310

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylphenol	50.0	34.6		ug/L		69	52 - 113	25	30
2-Nitroaniline	50.0	47.2		ug/L		94	60 - 125	16	30
2-Nitrophenol	50.0	47.1		ug/L		94	29 - 182	21	30
3,3'-Dichlorobenzidine	100	36.2		ug/L		36	10 - 200	13	30
3-Nitroaniline	50.0	43.1		ug/L		86	36 - 147	10	30
4,6-Dinitro-2-methylphenol	100	146		ug/L		146	10 - 181	13	30
4-Bromophenyl phenyl ether	50.0	39.9		ug/L		80	53 - 127	17	30
4-Chloro-3-methylphenol	50.0	38.4		ug/L		77	22 - 147	17	30
4-Chloroaniline	50.0	32.3		ug/L		65	33 - 109	14	30
4-Chlorophenyl phenyl ether	50.0	37.7		ug/L		75	25 - 158	15	30
4-Methylphenol	50.0	28.0		ug/L		56	47 - 96	16	30
4-Nitroaniline	50.0	41.1		ug/L		82	36 - 150	16	30
4-Nitrophenol	100	51.3		ug/L		51	10 - 132	4	30
Acenaphthene	50.0	38.1		ug/L		76	47 - 145	16	30
Acenaphthylene	50.0	34.9		ug/L		70	33 - 145	18	30
Acetophenone	50.0	36.8		ug/L		74	55 - 122	23	30
Anthracene	50.0	41.0		ug/L		82	27 - 133	15	30
Benzo[a]anthracene	50.0	40.2		ug/L		80	33 - 143	8	30
Benzo[a]pyrene	50.0	41.0		ug/L		82	17 - 163	2	30
Benzo[b]fluoranthene	50.0	35.3		ug/L		71	24 - 159	3	30
Benzo[g,h,i]perylene	50.0	46.9		ug/L		94	10 - 200	6	30
Benzo[k]fluoranthene	50.0	43.8		ug/L		88	11 - 162	1	30
bis (2-chloroisopropyl) ether	50.0	27.5		ug/L		55	48 - 110	26	30
Bis(2-chloroethoxy)methane	50.0	35.9		ug/L		72	33 - 184	18	30
Bis(2-chloroethyl)ether	50.0	34.0		ug/L		68	12 - 158	29	30
Bis(2-ethylhexyl) phthalate	50.0	45.2		ug/L		90	10 - 158	5	30
Butyl benzyl phthalate	50.0	38.2		ug/L		76	10 - 152	19	30
Carbazole	50.0	38.7		ug/L		77	62 - 127	13	30
Chrysene	50.0	43.4		ug/L		87	17 - 168	3	30
Dibenz(a,h)anthracene	50.0	46.9		ug/L		94	10 - 200	9	30
Dibenzofuran	50.0	38.8		ug/L		78	60 - 126	16	30
Diethyl phthalate	50.0	36.9		ug/L		74	10 - 120	17	30
Dimethyl phthalate	50.0	24.2	*1	ug/L		48	10 - 120	34	30
Di-n-butyl phthalate	50.0	36.9		ug/L		74	10 - 120	15	30
Di-n-octyl phthalate	50.0	49.5		ug/L		99	10 - 146	6	30
Fluoranthene	50.0	36.0		ug/L		72	26 - 137	12	30
Fluorene	50.0	40.4		ug/L		81	59 - 121	16	30
Hexachlorobenzene	50.0	37.2		ug/L		74	10 - 152	13	30
Hexachlorobutadiene	50.0	18.0	*1	ug/L		36	24 - 120	34	30
Hexachlorocyclopentadiene	50.0	8.95	J *1	ug/L		18	10 - 87	37	30
Hexachloroethane	50.0	21.3	*1	ug/L		43	40 - 120	35	30
Indeno[1,2,3-cd]pyrene	50.0	45.5		ug/L		91	10 - 171	4	30
Isophorone	50.0	35.9		ug/L		72	21 - 196	20	30
Naphthalene	50.0	33.2		ug/L		66	21 - 133	23	30
Nitrobenzene	50.0	34.9		ug/L		70	35 - 180	21	30
N-Nitrosodi-n-propylamine	50.0	33.5		ug/L		67	10 - 200	23	30
N-Nitrosodiphenylamine	42.5	34.2		ug/L		80	63 - 127	17	30
Pentachlorophenol	100	76.3		ug/L		76	14 - 176	6	30
Phenanthrene	50.0	41.0		ug/L		82	54 - 120	15	30

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

Lab Sample ID: LCSD 410-385310/3-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol			50.0	18.5		ug/L		37	10 - 120	25	30
Pyrene			50.0	40.1		ug/L		80	52 - 120	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 150*
2-Fluorobiphenyl (Surr)	*55*		*32 - 115*
2-Fluorophenol (Surr)	*39*		*10 - 83*
Nitrobenzene-d5 (Surr)	*58*		*41 - 121*
Phenol-d5 (Surr)	*30*		*10 - 63*
p-Terphenyl-d14 (Surr)	*75*		*28 - 134*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-386406/1-A
Matrix: Water
Analysis Batch: 389156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		06/14/23 08:40	06/21/23 08:36	1
Iron	50	U	50		ug/L		06/14/23 08:40	06/21/23 08:36	1
Manganese	2.0	U	2.0		ug/L		06/14/23 08:40	06/21/23 08:36	1

Lab Sample ID: LCS 410-386406/2-A
Matrix: Water
Analysis Batch: 389156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386406

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			500	499		ug/L		100	85 - 115		
Iron			5000	4960		ug/L		99	85 - 115		
Manganese			500	502		ug/L		100	85 - 115		

Lab Sample ID: 410-129603-3 MS
Matrix: Water
Analysis Batch: 389156

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	94		500	606		ug/L		102	70 - 130		

Lab Sample ID: 410-129603-3 MS
Matrix: Water
Analysis Batch: 389188

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron	83000		5000	82100	4	ug/L		-14	70 - 130		
Manganese	4600		500	4560	4	ug/L		-0.5	70 - 130		

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-129603-3 DU
Matrix: Water
Analysis Batch: 389156

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	94			101		ug/L				8	20

Lab Sample ID: 410-129603-3 DU
Matrix: Water
Analysis Batch: 389188

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Iron	83000			65700	F3	ug/L				23	20
Manganese	4600			3340	F3	ug/L				31	20

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-384231/1
Matrix: Water
Analysis Batch: 384231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			06/08/23 09:29	1

Lab Sample ID: LCS 410-384231/2
Matrix: Water
Analysis Batch: 384231

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			151	146		mg/L		97	89 - 105		

Lab Sample ID: 410-129603-3 DU
Matrix: Water
Analysis Batch: 384231

Client Sample ID: MHC-060623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	610			594		mg/L				2	5

GC/MS VOA

Analysis Batch: 386398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	8260D	
MB 410-386398/8	Method Blank	Total/NA	Water	8260D	
LCS 410-386398/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-386398/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 386672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-8	Trip blank	Total/NA	Water	8260D	
MB 410-386672/6	Method Blank	Total/NA	Water	8260D	
LCS 410-386672/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 387239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1 - DL	MHA-060623	Total/NA	Water	8260D	
410-129603-2	MHB-060623	Total/NA	Water	8260D	
410-129603-2 - DL	MHB-060623	Total/NA	Water	8260D	
410-129603-3	MHC-060623	Total/NA	Water	8260D	
410-129603-3 - DL	MHC-060623	Total/NA	Water	8260D	
410-129603-4	MHD-060623	Total/NA	Water	8260D	
410-129603-5	MHF-060623	Total/NA	Water	8260D	
410-129603-5 - DL	MHF-060623	Total/NA	Water	8260D	
410-129603-6	MHG-060623	Total/NA	Water	8260D	
410-129603-6 - DL	MHG-060623	Total/NA	Water	8260D	
410-129603-7	MHH-060623	Total/NA	Water	8260D	
MB 410-387239/6	Method Blank	Total/NA	Water	8260D	
LCS 410-387239/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 385310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	625.1	
410-129603-2	MHB-060623	Total/NA	Water	625.1	
410-129603-2 - DL	MHB-060623	Total/NA	Water	625.1	
410-129603-3	MHC-060623	Total/NA	Water	625.1	
410-129603-4	MHD-060623	Total/NA	Water	625.1	
410-129603-5	MHF-060623	Total/NA	Water	625.1	
410-129603-6	MHG-060623	Total/NA	Water	625.1	
410-129603-7	MHH-060623	Total/NA	Water	625.1	
MB 410-385310/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-385310/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-385310/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 385552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	625.1	385310
410-129603-2	MHB-060623	Total/NA	Water	625.1	385310
410-129603-3	MHC-060623	Total/NA	Water	625.1	385310
410-129603-4	MHD-060623	Total/NA	Water	625.1	385310
410-129603-5	MHF-060623	Total/NA	Water	625.1	385310
410-129603-6	MHG-060623	Total/NA	Water	625.1	385310

GC/MS Semi VOA (Continued)

Analysis Batch: 385552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-7	MHH-060623	Total/NA	Water	625.1	385310
MB 410-385310/1-A	Method Blank	Total/NA	Water	625.1	385310
LCS 410-385310/2-A	Lab Control Sample	Total/NA	Water	625.1	385310
LCSD 410-385310/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	385310

Analysis Batch: 386180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-2 - DL	MHB-060623	Total/NA	Water	625.1	385310

Metals

Prep Batch: 386406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-2	MHB-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-3	MHC-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-4	MHD-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-5	MHF-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-6	MHG-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-7	MHH-060623	Total/NA	Water	200.8 Rev 5.4	
MB 410-386406/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-386406/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	
410-129603-3 MS	MHC-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-3 DU	MHC-060623	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 389156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-2	MHB-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-4	MHD-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-5	MHF-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-6	MHG-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-7	MHH-060623	Total/NA	Water	200.8 Rev 5.4	386406
MB 410-386406/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	386406
LCS 410-386406/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 MS	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 DU	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406

Analysis Batch: 389188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-5	MHF-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-6	MHG-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 MS	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 DU	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

General Chemistry

Analysis Batch: 384231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	2540D-2015	
410-129603-2	MHB-060623	Total/NA	Water	2540D-2015	
410-129603-3	MHC-060623	Total/NA	Water	2540D-2015	
410-129603-4	MHD-060623	Total/NA	Water	2540D-2015	
410-129603-5	MHF-060623	Total/NA	Water	2540D-2015	
410-129603-6	MHG-060623	Total/NA	Water	2540D-2015	
410-129603-7	MHH-060623	Total/NA	Water	2540D-2015	
MB 410-384231/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-384231/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-129603-3 DU	MHC-060623	Total/NA	Water	2540D-2015	

Client Sample ID: MHA-060623
Lab Sample ID: 410-129603-1

Date Collected: 06/06/23 10:30
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386398	DVW2	ELLE	06/14/23 15:13
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 01:48
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 21:46
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:44
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:05
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHB-060623
Lab Sample ID: 410-129603-2

Date Collected: 06/06/23 10:45
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/15/23 23:46
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 00:07
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 22:07
Total/NA	Prep	625.1	DL		385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1	DL	50	386180	SJ89	ELLE	06/14/23 00:56
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:07
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHC-060623
Lab Sample ID: 410-129603-3

Date Collected: 06/06/23 11:00
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/16/23 00:27
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 00:47
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		10	385552	SJ89	ELLE	06/12/23 22:28
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:30
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 08:40
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4

Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/15/23 23:26
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 23:05
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:03
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5

Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/16/23 01:07
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 01:28
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 23:26
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:42
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:00
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6

Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	387239	JS6E	ELLE	06/16/23 02:29
Total/NA	Analysis	8260D	DL	20	387239	JS6E	ELLE	06/16/23 02:49
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 23:47
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:40
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 08:58
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7

Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	387239	JS6E	ELLE	06/16/23 03:10

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/13/23 00:08
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 08:56
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: Trip blank
Lab Sample ID: 410-129603-8
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386672	JS6E	ELLE	06/14/23 20:12

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

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
625.1	625.1	Water	1,1'-Biphenyl
625.1	625.1	Water	2-Nitroaniline
625.1	625.1	Water	3-Nitroaniline
625.1	625.1	Water	4-Chloroaniline
625.1	625.1	Water	4-Nitroaniline
625.1	625.1	Water	Dibenzofuran

Method Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-129603-1	MHA-060623	Water	06/06/23 10:30	06/07/23 09:55
410-129603-2	MHB-060623	Water	06/06/23 10:45	06/07/23 09:55
410-129603-3	MHC-060623	Water	06/06/23 11:00	06/07/23 09:55
410-129603-4	MHD-060623	Water	06/06/23 11:15	06/07/23 09:55
410-129603-5	MHF-060623	Water	06/06/23 11:30	06/07/23 09:55
410-129603-6	MHG-060623	Water	06/06/23 11:45	06/07/23 09:55
410-129603-7	MHH-060623	Water	06/06/23 12:00	06/07/23 09:55
410-129603-8	Trip blank	Water	06/06/23 12:00	06/07/23 09:55

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program Lal

410-129603 Chain of Custody

Page _____ of _____

BP/ARC Project Name: Wellsville OU2 - Annual Manholes
BP/ARC Facility No: USEPA ID: NY-D98053215

Standard Rush TAT: Yes ___ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 89766	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___
BP/ARC EBM: James Schaeffer		
EBM Phone: 281-800-7868		
EBM Email: jim.schaeffer@bp.com		

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs 8260 TCL List (HCL)	SVOCs 625 TCL List (NP)	Metals- As, Fe, Mn (HN03)	TSS (NP)	Report Type & QC Level / Comments
	MHA-060623	6/6/2023	1030		X			7	3		1	3			3	2	1	1	pH= 6.45
	MHB-060623	6/6/2023	1045		X			7	3		1	3			3	2	1	1	pH= 6.71
	MHC-060623	6/6/2023	1100		X			7	3		1	3			3	2	1	1	pH= 6.60
	MHD-060623	6/6/2023	1115		X			7	3		1	3			3	2	1	1	pH= 6.62
	MHF-060623	6/6/2023	1130		X			7	3		1	3			3	2	1	1	pH= 6.68
	MHG-060623	6/6/2023	1145		X			7	3		1	3			3	2	1	1	pH = 6.74
	MHH-060623	6/6/2023	1200		X			7	3		1	3			3	2	1	1	pH= 6.70
	Trip blank	6/6/2023	1200		X			2				2			2				
	Temp blank	6/6/2023						1											

Report Type & QC Level: Standard X; Full Data Package

Comments: Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	6/6/23	1400			
Shipment Method: FedEx Ship Date: 6/6/2023						
Shipment Tracking No: 772362829418, 772362828569					6/7/23	9:55

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: Rec 0.3 / Cor 0.3 F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Rec 1.7 / Cor 1.7

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-129603-1

Login Number: 129603

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 386398 | Batch Start Date: 06/14/23 08:46 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-386398/4		8260D		25 mL	25 mL				2692
LCSD 410-386398/5		8260D		25 mL	25 mL				2692
MB 410-386398/8		8260D		25 mL	25 mL				2692
410-129603-E-1	MHA-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00006	MSV_HP25_ISSS 00072	MSV_LCS_VOC#1 00113	MSV_QC_Gas826 00144		
LCS 410-386398/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL		
LCSD 410-386398/5		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL		
MB 410-386398/8		8260D			1 uL				
410-129603-E-1	MHA-060623	8260D	T		1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 386672 | Batch Start Date: 06/14/23 17:46 | Batch Analyst: Walmer, Gavin

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-386672/4		8260D		25 mL	25 mL				2692
MB 410-386672/6		8260D		25 mL	25 mL				2692
410-129603-B-8	Trip blank	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_29_826ISS 00047	MSV_LCS_VOC#1 00113	MSV_QC_Gas826 00144			
LCS 410-386672/4		8260D		1 uL	12.5 uL	12.5 uL			
MB 410-386672/6		8260D		1 uL					
410-129603-B-8	Trip blank	8260D	T	1 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 387239 | Batch Start Date: 06/15/23 17:27 | Batch Analyst: Walmer, Gavin

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-387239/4		8260D		25 mL	25 mL				2692
MB 410-387239/6		8260D		25 mL	25 mL				2692
410-129603-F-4	MHD-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-F-2	MHB-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-G-2	MHB-060623	8260D	T	25 mL	25 mL	<2 SU	N	Y	2692
410-129603-F-3	MHC-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-G-3	MHC-060623	8260D	T	25 mL	25 mL	<2 SU	N	Y	2692
410-129603-F-5	MHF-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-G-5	MHF-060623	8260D	T	25 mL	25 mL	<2 SU	N	Y	2692
410-129603-F-1	MHA-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692
410-129603-F-6	MHG-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692
410-129603-F-6	MHG-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692
410-129603-F-7	MHH-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00113	MSV_LLcentISS 00007	MSV_QC_Gas826 00144	AnalysisComment		
LCS 410-387239/4		8260D		12.5 uL	5 uL	12.5 uL			
MB 410-387239/6		8260D			5 uL				
410-129603-F-4	MHD-060623	8260D	T		5 uL				
410-129603-F-2	MHB-060623	8260D	T		5 uL				
410-129603-G-2	MHB-060623	8260D	T		5 uL		1511		
410-129603-F-3	MHC-060623	8260D	T		5 uL				
410-129603-G-3	MHC-060623	8260D	T		5 uL		1511		
410-129603-F-5	MHF-060623	8260D	T		5 uL				
410-129603-G-5	MHF-060623	8260D	T		5 uL		1511		
410-129603-F-1	MHA-060623	8260D	T		5 uL				
410-129603-F-6	MHG-060623	8260D	T		5 uL				
410-129603-F-6	MHG-060623	8260D	T		5 uL				
410-129603-F-7	MHH-060623	8260D	T		5 uL		2708		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 387239 | Batch Start Date: 06/15/23 17:27 | Batch Analyst: Walmer, Gavin

Batch Method: 8260D | Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 385310 | Batch Start Date: 06/12/23 07:37 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 06/12/23 14:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-385310/1		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCS 410-385310/2		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCSD 410-385310/3		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-1	MHA-060623	625.1, 625.1	T	406.91 g	169.50 g	237.4 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-2	MHB-060623	625.1, 625.1	T	408.26 g	167.78 g	240.5 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-3	MHC-060623	625.1, 625.1	T	411.74 g	166.60 g	245.1 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-4	MHD-060623	625.1, 625.1	T	405.53 g	166.43 g	239.1 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-5	MHF-060623	625.1, 625.1	T	407.96 g	169.78 g	238.2 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-6	MHG-060623	625.1, 625.1	T	407.85 g	167.83 g	240 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-7	MHH-060623	625.1, 625.1	T	407.29 g	166.14 g	241.2 mL	1.0 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00014	OP_MINLCS1_MS 00170	AnalysisComment	
MB 410-385310/1		625.1, 625.1		<2 SU	n/a SU	0.25 mL		Tap H2O	
LCS 410-385310/2		625.1, 625.1		<2 SU	n/a SU	0.25 mL	1 mL	Tap H2O	
LCSD 410-385310/3		625.1, 625.1		<2 SU	n/a SU	0.25 mL	1 mL	Tap H2O	
410-129603-B-1	MHA-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Pale Yellow Tint, Orange Sediment	
410-129603-B-2	MHB-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Orange Cloudy, Orange Sediment	
410-129603-B-3	MHC-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Yellow Cloudy, Orange Sediment	
410-129603-B-4	MHD-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Yellow Cloudy, Orange Sediment	
410-129603-B-5	MHF-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Pale Yellow Tint	
410-129603-B-6	MHG-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Orange Cloudy	
410-129603-B-7	MHH-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Orange Cloudy	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 385310 | Batch Start Date: 06/12/23 07:37 | Batch Analyst: Hall, Patrick

Batch Method: 625.1 | Batch End Date: 06/12/23 14:08

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, AGC40572, KMK81424
Analyst ID - Spike Analyst	PDH91662, AGC40572, KMK81424
Analyst ID - Spike Witness Analyst	PDH91662, AGC40572
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90
Extraction 1 Start Time	06/12/2023 08:33
Extraction 1 End Time	06/12/2023 09:48
Na2SO4 ID	23158A
Analyst ID - Concentration	PDH91662, AGC40572, KMK81424
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 386406 | Batch Start Date: 06/14/23 21:00 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 | Batch End Date: 06/15/23 01:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00028	MP_1:1HNO3 00042	MT_LCS-SPK-A 00026	MT_LCS-SPK-B 00025
MB 410-386406/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-386406/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-129603-H-3	MHC-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-J-3 DU	MHC-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-I-3 MS	MHC-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-129603-H-7	MHH-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-6	MHG-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-5	MHF-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-4	MHD-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-1	MHA-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-2	MHB-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 386406 | Batch Start Date: 06/14/23 21:00 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 | Batch End Date: 06/15/23 01:30

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	10
Digestion Tube/Cup ID	2211204
Thermometer ID	3811
Pipette ID	g20054g
Analyst ID - Spike Witness Analyst	0862
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 384231 | Batch Start Date: 06/08/23 06:51 | Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 | Batch End Date: 06/09/23 05:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-384231/1		2540D-2015		hXL0Y	0.1124 g	1000 mL	0.1123 g	-0.0001 g	1000 mL
LCS 410-384231/2		2540D-2015		hXL0Z	0.1145 g	1000 mL	0.2600 g	0.1455 g	1000 mL
410-129603-D-3	MHC-060623	2540D-2015	T	hXL10	0.1168 g	100 mL	0.1775 g	0.0607 g	1000 mL
410-129603-D-3 DU	MHC-060623	2540D-2015	T	hXL11	0.1162 g	100 mL	0.1756 g	0.0594 g	1000 mL
410-129603-D-2	MHB-060623	2540D-2015	T	hXL4Z	0.1153 g	500 mL	0.1370 g	0.0217 g	1000 mL
410-129603-D-1	MHA-060623	2540D-2015	T	hXL50	0.1160 g	550 mL	0.1242 g	0.0082 g	1000 mL
410-129603-D-4	MHD-060623	2540D-2015	T	hXL52	0.1119 g	400 mL	0.1347 g	0.0228 g	1000 mL
410-129603-D-5	MHF-060623	2540D-2015	T	hXL53	0.1149 g	500 mL	0.1302 g	0.0153 g	1000 mL
410-129603-D-7	MHH-060623	2540D-2015	T	hXL54	0.1137 g	500 mL	0.1359 g	0.0222 g	1000 mL
410-129603-D-6	MHG-060623	2540D-2015	T	hXL55	0.1144 g	550 mL	0.1275 g	0.0131 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00043	AnalysisComment		
MB 410-384231/1		2540D-2015		0.1123 g	0.1124 g				
LCS 410-384231/2		2540D-2015		0.26 g	0.1145 g	0.1505 g	vial 22 0.1505		
410-129603-D-3	MHC-060623	2540D-2015	T	0.1775 g	0.1168 g		30+30+40 slow,cloudy,small particles		
410-129603-D-3 DU	MHC-060623	2540D-2015	T	0.1756 g	0.1162 g				
410-129603-D-2	MHB-060623	2540D-2015	T	0.137 g	0.1153 g		100+100+100+100 +100 slow,cloudy		
410-129603-D-1	MHA-060623	2540D-2015	T	0.1242 g	0.116 g		100+100+100+100 +100+50 slow,cloudy		
410-129603-D-4	MHD-060623	2540D-2015	T	0.1347 g	0.1119 g		100+100+100+100 slow,cloudy		
410-129603-D-5	MHF-060623	2540D-2015	T	0.1302 g	0.1149 g		200+100+100+100 slow,cloudy		
410-129603-D-7	MHH-060623	2540D-2015	T	0.1359 g	0.1137 g		200+200+100 slow,cloudy		
410-129603-D-6	MHG-060623	2540D-2015	T	0.1275 g	0.1144 g		100+100+100+100 +100+50 slow,cloudy		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129603-1

SDG No.:

Batch Number: 384231 Batch Start Date: 06/08/23 06:51 Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 Batch End Date: 06/09/23 05:05

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600040-3109-r2
Balance ID	27505
Oven ID	7492
Thermometer ID	1052
Date/Time - In	06/08/2023 09:29
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	06/09/2023 05:05
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 6/16/2023 11:39:00 AM

JOB DESCRIPTION

Wellsville OU2 - Annual Groundwater

JOB NUMBER

410-129732-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

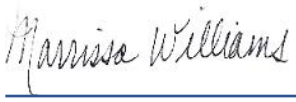
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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6/16/2023 11:39:00 AM

Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

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: 410-129732-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-129732-1

Receipt
The samples were received on 6/8/2023 10:10 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 0.5°C

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

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

GC/MS Semi VOA
Method 8270E: Surrogate recovery for the following sample was outside of acceptance limits: MW55R-0623 (410-129732-5[MSD]). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Client Sample ID: MW78-0623 — Lab Sample ID: 410-129732-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	10		1.0		ug/L	1		8260D	Total/NA
Benzene	6.3		1.0		ug/L	1		8260D	Total/NA
Vinyl chloride	3.3		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: DUP1-0623 — Lab Sample ID: 410-129732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.3		1.0		ug/L	1		8260D	Total/NA
Benzene	6.8		1.0		ug/L	1		8260D	Total/NA
Vinyl chloride	3.1		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: OW4-0623 — Lab Sample ID: 410-129732-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.5		1.0		ug/L	1		8260D	Total/NA
Aniline - DL	570		51		ug/L	10		8270E	Total/NA
Nitrobenzene - DL2	3900		200		ug/L	100		8270E	Total/NA

Client Sample ID: MW71-0623 — Lab Sample ID: 410-129732-4

No Detections.

Client Sample ID: MW55R-0623 — Lab Sample ID: 410-129732-5

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 410-129732-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW78-0623
Lab Sample ID: 410-129732-1

Date Collected: 06/06/23 14:00
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**10**		1.0		ug/L			06/14/23 02:45	1
Benzene	**6.3**		1.0		ug/L			06/14/23 02:45	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 02:45	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 02:45	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 02:45	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 02:45	1
Toluene	1.0	U	1.0		ug/L			06/14/23 02:45	1
Vinyl chloride	**3.3**		1.0		ug/L			06/14/23 02:45	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*06/14/23 02:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/14/23 02:45*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/14/23 02:45*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/14/23 02:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Acenaphthene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Aniline	5.1	U	5.1		ug/L		06/12/23 15:37	06/13/23 04:58	1
Fluorene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Naphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Nitrobenzene	2.0	U	2.0		ug/L		06/12/23 15:37	06/13/23 04:58	1
Phenanthrene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*13 - 138*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
2-Fluorobiphenyl (Surr)	*79*		*44 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
Nitrobenzene-d5 (Surr)	*74*		*31 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
p-Terphenyl-d14 (Surr)	*50*		*30 - 125*	*06/12/23 15:37*	*06/13/23 04:58*	*1*

Client Sample ID: DUP1-0623
Lab Sample ID: 410-129732-2

Date Collected: 06/06/23 14:05
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**9.3**		1.0		ug/L			06/14/23 02:25	1
Benzene	**6.8**		1.0		ug/L			06/14/23 02:25	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 02:25	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 02:25	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 02:25	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 02:25	1
Toluene	1.0	U	1.0		ug/L			06/14/23 02:25	1
Vinyl chloride	**3.1**		1.0		ug/L			06/14/23 02:25	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 02:25	1

Client Sample ID: DUP1-0623
Lab Sample ID: 410-129732-2

Date Collected: 06/06/23 14:05
Matrix: Water
Date Received: 06/08/23 10:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/14/23 02:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/14/23 02:25*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/14/23 02:25*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/14/23 02:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Acenaphthene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Aniline	5.1	U	5.1		ug/L		06/12/23 15:37	06/13/23 05:20	1
Fluorene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Naphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Nitrobenzene	2.0	U	2.0		ug/L		06/12/23 15:37	06/13/23 05:20	1
Phenanthrene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*13 - 138*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
Nitrobenzene-d5 (Surr)	*76*		*31 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
Phenol-d5 (Surr)	*38*		*10 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
p-Terphenyl-d14 (Surr)	*56*		*30 - 125*	*06/12/23 15:37*	*06/13/23 05:20*	*1*

Client Sample ID: OW4-0623
Lab Sample ID: 410-129732-3

Date Collected: 06/07/23 09:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 02:06	1
Benzene	1.0	U	1.0		ug/L			06/14/23 02:06	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 02:06	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 02:06	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 02:06	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 02:06	1
Toluene	**4.5**		1.0		ug/L			06/14/23 02:06	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 02:06	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/14/23 02:06*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/14/23 02:06*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/14/23 02:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/14/23 02:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1
Acenaphthene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1
Fluorene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1
Naphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1

Client Sample ID: OW4-0623
Lab Sample ID: 410-129732-3

Date Collected: 06/07/23 09:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*13 - 138*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
2-Fluorobiphenyl (Surr)	*85*		*44 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
Nitrobenzene-d5 (Surr)	*72*		*31 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
p-Terphenyl-d14 (Surr)	*54*		*30 - 125*	*06/13/23 15:34*	*06/14/23 02:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**570**		51		ug/L		06/13/23 15:34	06/15/23 03:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*13 - 138*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
Nitrobenzene-d5 (Surr)	*74*		*31 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
p-Terphenyl-d14 (Surr)	*53*		*30 - 125*	*06/13/23 15:34*	*06/15/23 03:13*	*10*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	**3900**		200		ug/L		06/13/23 15:34	06/15/23 13:16	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*13 - 138*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
2-Fluorophenol (Surr)	*41*		*10 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
Nitrobenzene-d5 (Surr)	*76*		*31 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
Phenol-d5 (Surr)	*25*		*10 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
p-Terphenyl-d14 (Surr)	*50*		*30 - 125*	*06/13/23 15:34*	*06/15/23 13:16*	*100*

Client Sample ID: MW71-0623
Lab Sample ID: 410-129732-4

Date Collected: 06/07/23 11:15
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 01:46	1
Benzene	1.0	U	1.0		ug/L			06/14/23 01:46	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 01:46	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 01:46	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 01:46	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 01:46	1
Toluene	1.0	U	1.0		ug/L			06/14/23 01:46	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 01:46	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 01:46	1

Client Sample ID: MW71-0623
Lab Sample ID: 410-129732-4

Date Collected: 06/07/23 11:15
Matrix: Water
Date Received: 06/08/23 10:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/14/23 01:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/14/23 01:46*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/14/23 01:46*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/14/23 01:46*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Acenaphthene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Aniline	5.1	U	5.1		ug/L		06/13/23 15:34	06/13/23 23:51	1
Fluorene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Naphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Nitrobenzene	2.0	U	2.0		ug/L		06/13/23 15:34	06/13/23 23:51	1
Phenanthrene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*13 - 138*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
2-Fluorobiphenyl (Surr)	*87*		*44 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
Nitrobenzene-d5 (Surr)	*74*		*31 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
p-Terphenyl-d14 (Surr)	*57*		*30 - 125*	*06/13/23 15:34*	*06/13/23 23:51*	*1*

Client Sample ID: MW55R-0623
Lab Sample ID: 410-129732-5

Date Collected: 06/07/23 13:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 00:46	1
Benzene	1.0	U	1.0		ug/L			06/14/23 00:46	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 00:46	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 00:46	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 00:46	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 00:46	1
Toluene	1.0	U	1.0		ug/L			06/14/23 00:46	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 00:46	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*06/14/23 00:46*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/14/23 00:46*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/14/23 00:46*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/14/23 00:46*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1
Acenaphthene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1
Aniline	5.1	U F2 F1	5.1		ug/L		06/13/23 15:34	06/14/23 00:10	1
Fluorene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1

Client Sample ID: MW55R-0623
Lab Sample ID: 410-129732-5

Date Collected: 06/07/23 13:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1
Nitrobenzene	2.0	U	2.0		ug/L		06/13/23 15:34	06/14/23 00:10	1
Phenanthrene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*13 - 138*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
2-Fluorobiphenyl (Surr)	*81*		*44 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
Nitrobenzene-d5 (Surr)	*70*		*31 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
Phenol-d5 (Surr)	*24*		*10 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
p-Terphenyl-d14 (Surr)	*50*		*30 - 125*	*06/13/23 15:34*	*06/14/23 00:10*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 410-129732-6

Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 00:26	1
Benzene	1.0	U	1.0		ug/L			06/14/23 00:26	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 00:26	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 00:26	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 00:26	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 00:26	1
Toluene	1.0	U	1.0		ug/L			06/14/23 00:26	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 00:26	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*06/14/23 00:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/14/23 00:26*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/14/23 00:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/14/23 00:26*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-129732-1	MW78-0623	102	99	107	106
410-129732-2	DUP1-0623	104	98	106	104
410-129732-3	OW4-0623	104	94	103	102
410-129732-4	MW71-0623	104	98	102	102
410-129732-5	MW55R-0623	99	100	109	104
410-129732-5 MS	MW55R-0623	102	99	102	105
410-129732-5 MSD	MW55R-0623	102	100	102	104
410-129732-6	Trip Blank	107	96	103	102
LCS 410-386130/5	Lab Control Sample	102	98	102	104
MB 410-386130/9	Method Blank	104	96	105	102

Surrogate Legend

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

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(13-138)	(44-120)	(10-120)	(31-120)	(10-120)	(30-125)
410-129732-1	MW78-0623	83	79	45	74	29	50
410-129732-2	DUP1-0623	88	84	53	76	38	56
410-129732-3	OW4-0623	81	85	44	72	29	54
410-129732-3 - DL	OW4-0623	70	84	43	74	29	53
410-129732-3 - DL2	OW4-0623	60	67	41	76	25	50
410-129732-4	MW71-0623	76	87	45	74	29	57
410-129732-5	MW55R-0623	72	81	36	70	24	50
410-129732-5 MS	MW55R-0623	63	83	38	69	26	67
410-129732-5 MSD	MW55R-0623	52 cn	79 cn	11 cn	72 cn	5 S1- cn	79 cn
LCS 410-385564/2-A	Lab Control Sample	88	91	59	77	42	97
LCS 410-386093/2-A	Lab Control Sample	71	77	49	66	34	89
LCSD 410-385564/3-A	Lab Control Sample Dup	69	82	41	73	28	84
MB 410-385564/1-A	Method Blank	97	91	44	71	28	97
MB 410-386093/1-A	Method Blank	76	84	50	73	32	94

Surrogate Legend

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

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-386130/9
Matrix: Water
Analysis Batch: 386130

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/13/23 21:09	1
Benzene	1.0	U	1.0		ug/L			06/13/23 21:09	1
Chloroethane	1.0	U	1.0		ug/L			06/13/23 21:09	1
Ethylbenzene	1.0	U	1.0		ug/L			06/13/23 21:09	1
m&p-Xylene	5.0	U	5.0		ug/L			06/13/23 21:09	1
o-Xylene	1.0	U	1.0		ug/L			06/13/23 21:09	1
Toluene	1.0	U	1.0		ug/L			06/13/23 21:09	1
Vinyl chloride	1.0	U	1.0		ug/L			06/13/23 21:09	1
Xylenes, Total	1.0	U	1.0		ug/L			06/13/23 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/13/23 21:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/13/23 21:09*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/13/23 21:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/13/23 21:09*	*1*

Lab Sample ID: LCS 410-386130/5
Matrix: Water
Analysis Batch: 386130

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	21.1		ug/L		106	80 - 120
Benzene	20.0	20.0		ug/L		100	80 - 120
Chloroethane	20.0	21.7		ug/L		109	55 - 123
Ethylbenzene	20.0	19.1		ug/L		96	80 - 120
m&p-Xylene	40.0	38.8		ug/L		97	80 - 120
o-Xylene	20.0	19.4		ug/L		97	80 - 120
Toluene	20.0	18.6		ug/L		93	80 - 120
Vinyl chloride	20.0	20.6		ug/L		103	56 - 120
Xylenes, Total	60.0	58.2		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386130

Client Sample ID: MW55R-0623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	1.0	U	20.0	22.4		ug/L		112	80 - 120
Benzene	1.0	U	20.0	21.7		ug/L		106	80 - 120
Chloroethane	1.0	U	20.0	24.0		ug/L		120	55 - 123
Ethylbenzene	1.0	U	20.0	20.8		ug/L		104	80 - 120
m&p-Xylene	5.0	U	40.0	41.4		ug/L		103	80 - 120
o-Xylene	1.0	U	20.0	20.7		ug/L		104	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386130

Client Sample ID: MW55R-0623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	1.0	U	20.0	20.4		ug/L		102	80 - 120
Vinyl chloride	1.0	U	20.0	23.3		ug/L		117	56 - 120
Xylenes, Total	1.0	U	60.0	62.1		ug/L		104	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 410-129732-5 MSD
Matrix: Water
Analysis Batch: 386130

Client Sample ID: MW55R-0623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	1.0	U	20.0	22.3		ug/L		111	80 - 120	1	30
Benzene	1.0	U	20.0	21.9		ug/L		107	80 - 120	1	30
Chloroethane	1.0	U	20.0	23.6		ug/L		118	55 - 123	2	30
Ethylbenzene	1.0	U	20.0	20.8		ug/L		104	80 - 120	0	30
m&p-Xylene	5.0	U	40.0	41.6		ug/L		104	80 - 120	1	30
o-Xylene	1.0	U	20.0	20.2		ug/L		101	80 - 120	3	30
Toluene	1.0	U	20.0	20.2		ug/L		101	80 - 120	1	30
Vinyl chloride	1.0	U	20.0	22.9		ug/L		115	56 - 120	2	30
Xylenes, Total	1.0	U	60.0	61.8		ug/L		103	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-385564/1-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Acenaphthene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Aniline	5.0	U	5.0		ug/L		06/12/23 15:37	06/12/23 21:33	1
Fluorene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Naphthalene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Nitrobenzene	2.0	U	2.0		ug/L		06/12/23 15:37	06/12/23 21:33	1
Phenanthrene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*13 - 138*	*06/12/23 15:37*	*06/12/23 21:33*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-385564/1-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385564

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	91		44 - 120	06/12/23 15:37	06/12/23 21:33	1
2-Fluorophenol (Surr)	44		10 - 120	06/12/23 15:37	06/12/23 21:33	1
Nitrobenzene-d5 (Surr)	71		31 - 120	06/12/23 15:37	06/12/23 21:33	1
Phenol-d5 (Surr)	28		10 - 120	06/12/23 15:37	06/12/23 21:33	1
p-Terphenyl-d14 (Surr)	97		30 - 125	06/12/23 15:37	06/12/23 21:33	1

Lab Sample ID: LCS 410-385564/2-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	48.9		ug/L		98	53 - 120
Acenaphthene	50.0	47.5		ug/L		95	59 - 120
Aniline	50.0	30.5		ug/L		61	37 - 120
Fluorene	50.0	48.2		ug/L		96	66 - 120
Naphthalene	50.0	48.7		ug/L		97	55 - 120
Nitrobenzene	50.0	42.1		ug/L		84	59 - 120
Phenanthrene	50.0	49.8		ug/L		100	66 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		13 - 138
2-Fluorobiphenyl (Surr)	91		44 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	77		31 - 120
Phenol-d5 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	97		30 - 125

Lab Sample ID: LCSD 410-385564/3-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	50.0	43.5		ug/L		87	53 - 120	12	30
Acenaphthene	50.0	47.1		ug/L		94	59 - 120	1	30
Aniline	50.0	25.8		ug/L		52	37 - 120	17	30
Fluorene	50.0	47.4		ug/L		95	66 - 120	2	30
Naphthalene	50.0	43.0		ug/L		86	55 - 120	12	30
Nitrobenzene	50.0	41.8		ug/L		84	59 - 120	1	30
Phenanthrene	50.0	48.9		ug/L		98	66 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		13 - 138
2-Fluorobiphenyl (Surr)	82		44 - 120
2-Fluorophenol (Surr)	41		10 - 120
Nitrobenzene-d5 (Surr)	73		31 - 120
Phenol-d5 (Surr)	28		10 - 120
p-Terphenyl-d14 (Surr)	84		30 - 125

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-386093/1-A
Matrix: Water
Analysis Batch: 386218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Acenaphthene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Aniline	5.0	U	5.0		ug/L		06/13/23 15:34	06/13/23 22:34	1
Fluorene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Naphthalene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Nitrobenzene	2.0	U	2.0		ug/L		06/13/23 15:34	06/13/23 22:34	1
Phenanthrene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*13 - 138*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
Nitrobenzene-d5 (Surr)	*73*		*31 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
Phenol-d5 (Surr)	*32*		*10 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
p-Terphenyl-d14 (Surr)	*94*		*30 - 125*	*06/13/23 15:34*	*06/13/23 22:34*	*1*

Lab Sample ID: LCS 410-386093/2-A
Matrix: Water
Analysis Batch: 386218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	43.8		ug/L		88	53 - 120
Acenaphthene	50.0	42.3		ug/L		85	59 - 120
Aniline	50.0	26.3		ug/L		53	37 - 120
Fluorene	50.0	43.1		ug/L		86	66 - 120
Naphthalene	50.0	41.2		ug/L		82	55 - 120
Nitrobenzene	50.0	38.6		ug/L		77	59 - 120
Phenanthrene	50.0	45.7		ug/L		91	66 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*13 - 138*
2-Fluorobiphenyl (Surr)	*77*		*44 - 120*
2-Fluorophenol (Surr)	*49*		*10 - 120*
Nitrobenzene-d5 (Surr)	*66*		*31 - 120*
Phenol-d5 (Surr)	*34*		*10 - 120*
p-Terphenyl-d14 (Surr)	*89*		*30 - 125*

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386218

Client Sample ID: MW55R-0623
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	0.51	U	50.6	48.2		ug/L		94	53 - 120
Acenaphthene	0.51	U	50.6	47.4		ug/L		93	59 - 120
Aniline	5.1	U F2 F1	50.6	18.0	F1	ug/L		36	37 - 120
Fluorene	0.51	U	50.6	48.1		ug/L		94	66 - 120
Naphthalene	0.51	U	50.6	46.2		ug/L		91	55 - 120
Nitrobenzene	2.0	U	50.6	43.8		ug/L		86	59 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386218

Client Sample ID: MW55R-0623
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.51	U	50.6	48.4		ug/L		96	66 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*63*		*13 - 138*
2-Fluorobiphenyl (Surr)	*83*		*44 - 120*
2-Fluorophenol (Surr)	*38*		*10 - 120*
Nitrobenzene-d5 (Surr)	*69*		*31 - 120*
Phenol-d5 (Surr)	*26*		*10 - 120*
p-Terphenyl-d14 (Surr)	*67*		*30 - 125*

Lab Sample ID: 410-129732-5 MSD
Matrix: Water
Analysis Batch: 386218

Client Sample ID: MW55R-0623
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	0.51	U	50.5	48.7	cn	ug/L		95	53 - 120	1	30
Acenaphthene	0.51	U	50.5	44.9	cn	ug/L		88	59 - 120	5	30
Aniline	5.1	U F2 F1	50.5	11.1	F2 F1 cn	ug/L		22	37 - 120	47	30
Fluorene	0.51	U	50.5	45.5	cn	ug/L		89	66 - 120	6	30
Naphthalene	0.51	U	50.5	44.9	cn	ug/L		88	55 - 120	3	30
Nitrobenzene	2.0	U	50.5	42.6	cn	ug/L		84	59 - 120	3	30
Phenanthrene	0.51	U	50.5	47.4	cn	ug/L		94	66 - 120	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*52*	*cn*	*13 - 138*
2-Fluorobiphenyl (Surr)	*79*	*cn*	*44 - 120*
2-Fluorophenol (Surr)	*11*	*cn*	*10 - 120*
Nitrobenzene-d5 (Surr)	*72*	*cn*	*31 - 120*
Phenol-d5 (Surr)	*5*	*S1- cn*	*10 - 120*
p-Terphenyl-d14 (Surr)	*79*	*cn*	*30 - 125*

GC/MS VOA

Analysis Batch: 386130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-1	MW78-0623	Total/NA	Water	8260D	
410-129732-2	DUP1-0623	Total/NA	Water	8260D	
410-129732-3	OW4-0623	Total/NA	Water	8260D	
410-129732-4	MW71-0623	Total/NA	Water	8260D	
410-129732-5	MW55R-0623	Total/NA	Water	8260D	
410-129732-6	Trip Blank	Total/NA	Water	8260D	
MB 410-386130/9	Method Blank	Total/NA	Water	8260D	
LCS 410-386130/5	Lab Control Sample	Total/NA	Water	8260D	
410-129732-5 MS	MW55R-0623	Total/NA	Water	8260D	
410-129732-5 MSD	MW55R-0623	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 385564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-1	MW78-0623	Total/NA	Water	3510C	
410-129732-2	DUP1-0623	Total/NA	Water	3510C	
MB 410-385564/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-385564/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-385564/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 385692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-1	MW78-0623	Total/NA	Water	8270E	385564
410-129732-2	DUP1-0623	Total/NA	Water	8270E	385564
MB 410-385564/1-A	Method Blank	Total/NA	Water	8270E	385564
LCS 410-385564/2-A	Lab Control Sample	Total/NA	Water	8270E	385564
LCSD 410-385564/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	385564

Prep Batch: 386093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3 - DL2	OW4-0623	Total/NA	Water	3510C	
410-129732-3	OW4-0623	Total/NA	Water	3510C	
410-129732-3 - DL	OW4-0623	Total/NA	Water	3510C	
410-129732-4	MW71-0623	Total/NA	Water	3510C	
410-129732-5	MW55R-0623	Total/NA	Water	3510C	
MB 410-386093/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-386093/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-129732-5 MS	MW55R-0623	Total/NA	Water	3510C	
410-129732-5 MSD	MW55R-0623	Total/NA	Water	3510C	

Analysis Batch: 386218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3	OW4-0623	Total/NA	Water	8270E	386093
410-129732-4	MW71-0623	Total/NA	Water	8270E	386093
410-129732-5	MW55R-0623	Total/NA	Water	8270E	386093
MB 410-386093/1-A	Method Blank	Total/NA	Water	8270E	386093
LCS 410-386093/2-A	Lab Control Sample	Total/NA	Water	8270E	386093
410-129732-5 MS	MW55R-0623	Total/NA	Water	8270E	386093
410-129732-5 MSD	MW55R-0623	Total/NA	Water	8270E	386093

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

GC/MS Semi VOA

Analysis Batch: 386718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3 - DL	OW4-0623	Total/NA	Water	8270E	386093

Analysis Batch: 387036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3 - DL2	OW4-0623	Total/NA	Water	8270E	386093

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Client Sample ID: MW78-0623
Lab Sample ID: 410-129732-1
Date Collected: 06/06/23 14:00
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 02:45
Total/NA	Prep	3510C			385564	T9CY	ELLE	06/12/23 15:37
Total/NA	Analysis	8270E		1	385692	AH7C	ELLE	06/13/23 04:58

Client Sample ID: DUP1-0623
Lab Sample ID: 410-129732-2
Date Collected: 06/06/23 14:05
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 02:25
Total/NA	Prep	3510C			385564	T9CY	ELLE	06/12/23 15:37
Total/NA	Analysis	8270E		1	385692	AH7C	ELLE	06/13/23 05:20

Client Sample ID: OW4-0623
Lab Sample ID: 410-129732-3
Date Collected: 06/07/23 09:20
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 02:06
Total/NA	Prep	3510C	DL2		386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E	DL2	100	387036	GLQ9	ELLE	06/15/23 13:16
Total/NA	Prep	3510C			386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E		1	386218	AH7C	ELLE	06/14/23 02:06
Total/NA	Prep	3510C	DL		386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E	DL	10	386718	AH7C	ELLE	06/15/23 03:13

Client Sample ID: MW71-0623
Lab Sample ID: 410-129732-4
Date Collected: 06/07/23 11:15
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 01:46
Total/NA	Prep	3510C			386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E		1	386218	AH7C	ELLE	06/13/23 23:51

Client Sample ID: MW55R-0623
Lab Sample ID: 410-129732-5
Date Collected: 06/07/23 13:20
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 00:46
Total/NA	Prep	3510C			386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E		1	386218	AH7C	ELLE	06/14/23 00:10

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Client Sample ID: Trip Blank
Lab Sample ID: 410-129732-6
Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 00:26

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-129732-1	MW78-0623	Water	06/06/23 14:00	06/08/23 10:10
410-129732-2	DUP1-0623	Water	06/06/23 14:05	06/08/23 10:10
410-129732-3	OW4-0623	Water	06/07/23 09:20	06/08/23 10:10
410-129732-4	MW71-0623	Water	06/07/23 11:15	06/08/23 10:10
410-129732-5	MW55R-0623	Water	06/07/23 13:20	06/08/23 10:10
410-129732-6	Trip Blank	Water	06/07/23 00:00	06/08/23 10:10

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaM

BP/ARC Project Name: Wellsville OU2 - Annual Groundwate
BP/ARC Facility No: USEPA ID: NY-D98053215

410-129732 Chain of Custody

Standard Rush TAT: Yes ___ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: Select SVOCs 8270 (list below)	Select VOCs 8260 (list below)	Comments
	MW78-0623	6-6-23	1400		X		5	X			X			X	X	
	DUP1-0623	6-6-23	1405		X		5	X			X			X	X	
	OW4-0623	6-6-23	0920		X		5	X			X			X	X	
	MW71-0623	6-7-23	1115		X		5	X			X			X	X	
	MW55R-0623	6-7-23	1320		X		10	X			X			X	X	MS/MSD

Report Type & QC Level: Standard X; Full Data Package

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)

SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene

Sampler's Name: Kevin Dye	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Kevin Dye / On-Site Kevin Dye	6/7/23	1405			
Shipment Method: FedEx Ship Date: 6/7/23						
Shipment Tracking No: 7723 7165 5436				JTA FedEx	6/8/23	10:10

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 0.5 / 0.5 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

IM

6/16/2023

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-129732-1

Login Number: 129732

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	True	
WV: Container 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	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386130 | Batch Start Date: 06/13/23 18:34 | Batch Analyst: Drexinger, Marissa C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-386130/5		8260D		5 mL	5 mL				2692
MB 410-386130/9		8260D		5 mL	5 mL				2692
410-129732-A-6	Trip Blank	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-5	MW55R-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-5 MS	MW55R-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-5 MSD	MW55R-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-4	MW71-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-3	OW4-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-2	DUP1-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-1	MW78-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Cent_ISSS 00019	MSV_LCS_2CEVE 00119	MSV_LCS_ACROL 00117	MSV_LCS_ETOH 00004	MSV_LCS_Gases 00146	MSV_LCS_VOC#1 00113
LCS 410-386130/5		8260D		5 uL	50 uL	50 uL	50 uL	50 uL	50 uL
MB 410-386130/9		8260D		5 uL					
410-129732-A-6	Trip Blank	8260D	T	5 uL					
410-129732-A-5	MW55R-0623	8260D	T	5 uL					
410-129732-A-5 MS	MW55R-0623	8260D	T	5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-129732-A-5 MSD	MW55R-0623	8260D	T	5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-129732-A-4	MW71-0623	8260D	T	5 uL					
410-129732-A-3	OW4-0623	8260D	T	5 uL					
410-129732-A-2	DUP1-0623	8260D	T	5 uL					
410-129732-A-1	MW78-0623	8260D	T	5 uL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386130 Batch Start Date: 06/13/23 18:34 Batch Analyst: Drexinger, Marissa C

Batch Method: 8260D Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 385564 | Batch Start Date: 06/12/23 15:37 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C | Batch End Date: 06/12/23 19:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-385564/1		3510C, 8270E				250 mL	1 mL	n/a SU	11 SU
LCS 410-385564/2		3510C, 8270E				250 mL	1 mL	n/a SU	11 SU
LCSD 410-385564/3		3510C, 8270E				250 mL	1 mL	n/a SU	11 SU
410-129732-D-1	MW78-0623	3510C, 8270E	T	414.14 g	166.60 g	247.5 mL	1 mL	n/a SU	11 SU
410-129732-D-2	DUP1-0623	3510C, 8270E	T	413.65 g	166.61 g	247 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00090	OP_MINLCS1_MS 00170	OP_MINLCS2_MS 00097	AnalysisComment	
MB 410-385564/1		3510C, 8270E		2 SU	1 mL			tap water	
LCS 410-385564/2		3510C, 8270E		2 SU	1 mL	1 mL	1 mL	tap water	
LCSD 410-385564/3		3510C, 8270E		2 SU	1 mL	1 mL	1 mL	tap water	
410-129732-D-1	MW78-0623	3510C, 8270E	T	2 SU	1 mL			tan cloudy	
410-129732-D-2	DUP1-0623	3510C, 8270E	T	2 SU	1 mL			tan cloudy	

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067 DBH82588 AS86224
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23158A
Analyst ID - Concentration	OS11067 DBH82588 AS86224
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 385564 Batch Start Date: 06/12/23 15:37 Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C Batch End Date: 06/12/23 19:59

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386093 | Batch Start Date: 06/13/23 15:34 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C | Batch End Date: 06/13/23 20:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-386093/1		3510C, 8270E				250 mL	1 mL	11 SU	2 SU
LCS 410-386093/2		3510C, 8270E				250 mL	1 mL	11 SU	2 SU
410-129732-C-5 MS	MW55R-0623	3510C, 8270E	T	413.12 g	166.12 g	247 mL	1 mL	11 SU	2 SU
410-129732-C-5 MSD	MW55R-0623	3510C, 8270E	T	417.21 g	169.73 g	247.5 mL	1 mL	11 SU	2 SU
410-129732-D-3	OW4-0623	3510C, 8270E	T	413.12 g	167.16 g	246 mL	1 mL	11 SU	2 SU
410-129732-D-4	MW71-0623	3510C, 8270E	T	414.80 g	169.33 g	245.5 mL	1 mL	11 SU	2 SU
410-129732-C-5	MW55R-0623	3510C, 8270E	T	413.13 g	165.67 g	247.5 mL	1 mL	11 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_MINIBNA_SS 00090	OP_MINLCS1_MS 00170	OP_MINLCS2_MS 00098	AnalysisComment		
MB 410-386093/1		3510C, 8270E		1 mL			tap h20		
LCS 410-386093/2		3510C, 8270E		1 mL	1 mL	1 mL	tap h20		
410-129732-C-5 MS	MW55R-0623	3510C, 8270E	T	1 mL	1 mL	1 mL	orange cloudy		
410-129732-C-5 MSD	MW55R-0623	3510C, 8270E	T	1 mL	1 mL	1 mL	orange cloudy		
410-129732-D-3	OW4-0623	3510C, 8270E	T	1 mL			tan tint		
410-129732-D-4	MW71-0623	3510C, 8270E	T	1 mL			tan tint		
410-129732-C-5	MW55R-0623	3510C, 8270E	T	1 mL			tan tint		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386093 | Batch Start Date: 06/13/23 15:34 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C | Batch End Date: 06/13/23 20:35

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067 DBH82588 AS86224
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23163A
Analyst ID - Concentration	OS11067 DBH82588 AS86224
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 6/26/2023 10:33:04 PM

JOB DESCRIPTION

Wellsville-OU1 Bi-Annual Groundwater

JOB NUMBER

410-130420-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

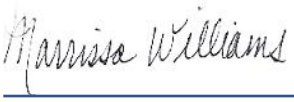
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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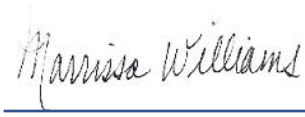

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Definitions/Glossary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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: 410-130420-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-130420-1

Receipt
The samples were received on 6/13/2023 10:05 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 1.9°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed on 410-389336 is compliant under 8260C/D method criteria for Methylene Chloride . The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-389336 recovered above the upper control limit for Carbon disulfide and Methyl acetate. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

GC/MS Semi VOA
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.

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: EB1-0623 — Lab Sample ID: 410-130420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.011		0.010		mg/L	1		6010D	Total Recoverable

Client Sample ID: MWR3-0623 — Lab Sample ID: 410-130420-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.21		0.0050		mg/L	1		6010D	Total Recoverable
Calcium	34		0.50		mg/L	1		6010D	Total Recoverable
Iron	4.9		0.20		mg/L	1		6010D	Total Recoverable
Magnesium	22		0.10		mg/L	1		6010D	Total Recoverable
Manganese	4.3		0.010		mg/L	1		6010D	Total Recoverable
Potassium	1.9		0.50		mg/L	1		6010D	Total Recoverable
Sodium	12		1.0		mg/L	1		6010D	Total Recoverable

Client Sample ID: MWR2-0623 — Lab Sample ID: 410-130420-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	12		5.0		ug/L	1		8260D	Total/NA
Isopropylbenzene	11		5.0		ug/L	1		8260D	Total/NA
Methylcyclohexane	26		5.0		ug/L	1		8260D	Total/NA
Barium	0.38		0.0050		mg/L	1		6010D	Total Recoverable
Calcium	39		0.50		mg/L	1		6010D	Total Recoverable
Iron	48		0.20		mg/L	1		6010D	Total Recoverable
Magnesium	29		0.10		mg/L	1		6010D	Total Recoverable
Manganese	10		0.010		mg/L	1		6010D	Total Recoverable
Potassium	1.5		0.50		mg/L	1		6010D	Total Recoverable
Sodium	21		1.0		mg/L	1		6010D	Total Recoverable

Client Sample ID: Trip Blank — Lab Sample ID: 410-130420-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
2-Butanone	10	U	10		ug/L			06/21/23 20:14	1
2-Hexanone	10	U	10		ug/L			06/21/23 20:14	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/21/23 20:14	1
Acetone	20	U	20		ug/L			06/21/23 20:14	1
Benzene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Bromoform	4.0	U	4.0		ug/L			06/21/23 20:14	1
Bromomethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/21/23 20:14	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chlorobenzene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chloroform	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chloromethane	2.0	U	2.0		ug/L			06/21/23 20:14	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Cyclohexane	5.0	U	5.0		ug/L			06/21/23 20:14	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Ethylbenzene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Freon 113	10	U	10		ug/L			06/21/23 20:14	1
Isopropylbenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/21/23 20:14	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/21/23 20:14	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/21/23 20:14	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/21/23 20:14	1
Styrene	5.0	U	5.0		ug/L			06/21/23 20:14	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Toluene	1.0	U	1.0		ug/L			06/21/23 20:14	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/21/23 20:14	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Trichloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Vinyl chloride	1.0	U	1.0		ug/L			06/21/23 20:14	1
Xylenes, Total	1.0	U	1.0		ug/L			06/21/23 20:14	1

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/21/23 20:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/21/23 20:14*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*06/21/23 20:14*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/21/23 20:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,2'-oxybis[1-chloropropane]	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4,5-Trichlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4,6-Trichlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dichlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dimethylphenol	11	U	11		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dinitrophenol	32	U	32		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dinitrotoluene	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,6-Dinitrotoluene	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Chloronaphthalene	1.1	U	1.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Chlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Methylnaphthalene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Methylphenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Nitroaniline	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Nitrophenol	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
3,3'-Dichlorobenzidine	11	U	11		ug/L		06/16/23 14:55	06/19/23 12:14	1
3-Nitroaniline	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
4,6-Dinitro-2-methylphenol	22	U	22		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Bromophenyl phenyl ether	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Chloro-3-methylphenol	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Chloroaniline	11	U	11		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Chlorophenyl phenyl ether	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Methylphenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Nitroaniline	3.2	U	3.2		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Nitrophenol	32	U	32		ug/L		06/16/23 14:55	06/19/23 12:14	1
Acenaphthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Acenaphthylene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Acetophenone	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Anthracene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Atrazine	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzaldehyde	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[a]anthracene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[a]pyrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[b]fluoranthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[g,h,i]perylene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[k]fluoranthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Bis(2-chloroethoxy)methane	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Bis(2-chloroethyl)ether	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Bis(2-ethylhexyl) phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Butyl benzyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Caprolactam	7.4	U	7.4		ug/L		06/16/23 14:55	06/19/23 12:14	1
Carbazole	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Chrysene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Dibenzofuran	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Diethyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Dimethyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Di-n-butyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Di-n-octyl phthalate	12	U	12		ug/L		06/16/23 14:55	06/19/23 12:14	1
Fluoranthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Fluorene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachlorobenzene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachlorobutadiene	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachlorocyclopentadiene	12	U	12		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachloroethane	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Indeno[1,2,3-cd]pyrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Isophorone	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Naphthalene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Nitrobenzene	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
N-Nitrosodi-n-propylamine	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
N-Nitrosodiphenylamine	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Pentachlorophenol	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Phenanthrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Phenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Pyrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*51*		*13 - 138*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
2-Fluorobiphenyl (Surr)	*70*		*44 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
2-Fluorophenol (Surr)	*29*		*10 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
Nitrobenzene-d5 (Surr)	*71*		*31 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
Phenol-d5 (Surr)	*20*		*10 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
p-Terphenyl-d14 (Surr)	*80*		*30 - 125*	*06/16/23 14:55*	*06/19/23 12:14*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 08:04	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Barium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Calcium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 08:04	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:04	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:04	1
Iron	0.20	U	0.20		mg/L		06/21/23 11:59	06/22/23 08:04	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:04	1
Magnesium	0.10	U	0.10		mg/L		06/21/23 11:59	06/22/23 08:04	1
Manganese	**0.011**		0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Potassium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 08:04	1
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:04	1

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1

Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 6010D - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Sodium	1.0	U	1.0		mg/L		06/21/23 11:59	06/22/23 08:04	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 08:04	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:04	1

Method: SW846 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 10:27	1

Client Sample ID: MWR3-0623
Lab Sample ID: 410-130420-2

Date Collected: 06/12/23 10:05
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
2-Butanone	10	U	10		ug/L			06/22/23 01:44	1
2-Hexanone	10	U	10		ug/L			06/22/23 01:44	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/22/23 01:44	1
Acetone	20	U	20		ug/L			06/22/23 01:44	1
Benzene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Bromoform	4.0	U	4.0		ug/L			06/22/23 01:44	1
Bromomethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/22/23 01:44	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chlorobenzene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chloroform	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chloromethane	2.0	U	2.0		ug/L			06/22/23 01:44	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Cyclohexane	5.0	U	5.0		ug/L			06/22/23 01:44	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Ethylbenzene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Freon 113	10	U	10		ug/L			06/22/23 01:44	1

Client Sample ID: MWR3-0623
Lab Sample ID: 410-130420-2
Date Collected: 06/12/23 10:05
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/22/23 01:44	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/22/23 01:44	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/22/23 01:44	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/22/23 01:44	1
Styrene	5.0	U	5.0		ug/L			06/22/23 01:44	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Toluene	1.0	U	1.0		ug/L			06/22/23 01:44	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/22/23 01:44	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Trichloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Vinyl chloride	1.0	U	1.0		ug/L			06/22/23 01:44	1
Xylenes, Total	1.0	U	1.0		ug/L			06/22/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/22/23 01:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/22/23 01:44*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/22/23 01:44*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/22/23 01:44*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 08:17	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Barium	**0.21**		0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Calcium	**34**		0.50		mg/L		06/21/23 11:59	06/22/23 08:17	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:17	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:17	1
Iron	**4.9**		0.20		mg/L		06/21/23 11:59	06/22/23 08:17	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:17	1
Magnesium	**22**		0.10		mg/L		06/21/23 11:59	06/22/23 08:17	1
Manganese	**4.3**		0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Potassium	**1.9**		0.50		mg/L		06/21/23 11:59	06/22/23 20:37	1
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Sodium	**12**		1.0		mg/L		06/21/23 11:59	06/22/23 08:17	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 08:17	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:17	1

Method: SW846 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 10:25	1

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: MWR2-0623
Lab Sample ID: 410-130420-3
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
2-Butanone	10	U	10		ug/L			06/22/23 02:06	1
2-Hexanone	10	U	10		ug/L			06/22/23 02:06	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/22/23 02:06	1
Acetone	20	U	20		ug/L			06/22/23 02:06	1
Benzene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Bromoform	4.0	U	4.0		ug/L			06/22/23 02:06	1
Bromomethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/22/23 02:06	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chlorobenzene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chloroform	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chloromethane	2.0	U	2.0		ug/L			06/22/23 02:06	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Cyclohexane	**12**		5.0		ug/L			06/22/23 02:06	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Ethylbenzene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Freon 113	10	U	10		ug/L			06/22/23 02:06	1
Isopropylbenzene	**11**		5.0		ug/L			06/22/23 02:06	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/22/23 02:06	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/22/23 02:06	1
Methylcyclohexane	**26**		5.0		ug/L			06/22/23 02:06	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/22/23 02:06	1
Styrene	5.0	U	5.0		ug/L			06/22/23 02:06	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Toluene	1.0	U	1.0		ug/L			06/22/23 02:06	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/22/23 02:06	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Trichloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Vinyl chloride	1.0	U	1.0		ug/L			06/22/23 02:06	1
Xylenes, Total	1.0	U	1.0		ug/L			06/22/23 02:06	1

Client Sample ID: MWR2-0623
Lab Sample ID: 410-130420-3

Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*06/22/23 02:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/22/23 02:06*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/22/23 02:06*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/22/23 02:06*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 08:07	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Barium	**0.38**		0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Calcium	**39**		0.50		mg/L		06/21/23 11:59	06/22/23 08:07	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:07	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:07	1
Iron	**48**		0.20		mg/L		06/21/23 11:59	06/22/23 08:07	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:07	1
Magnesium	**29**		0.10		mg/L		06/21/23 11:59	06/22/23 08:07	1
Manganese	**10**		0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Potassium	**1.5**		0.50		mg/L		06/21/23 11:59	06/26/23 09:31	1
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Sodium	**21**		1.0		mg/L		06/21/23 11:59	06/22/23 08:07	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 08:07	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:07	1

Method: SW846 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 10:33	1

Client Sample ID: Trip Blank
Lab Sample ID: 410-130420-4

Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/21/23 20:36	1

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: Trip Blank
Lab Sample ID: 410-130420-4
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
2-Butanone	10	U	10		ug/L			06/21/23 20:36	1
2-Hexanone	10	U	10		ug/L			06/21/23 20:36	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/21/23 20:36	1
Acetone	20	U	20		ug/L			06/21/23 20:36	1
Benzene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Bromoform	4.0	U	4.0		ug/L			06/21/23 20:36	1
Bromomethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/21/23 20:36	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chlorobenzene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chloroform	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chloromethane	2.0	U	2.0		ug/L			06/21/23 20:36	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Cyclohexane	5.0	U	5.0		ug/L			06/21/23 20:36	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Ethylbenzene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Freon 113	10	U	10		ug/L			06/21/23 20:36	1
Isopropylbenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/21/23 20:36	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/21/23 20:36	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/21/23 20:36	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/21/23 20:36	1
Styrene	5.0	U	5.0		ug/L			06/21/23 20:36	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Toluene	1.0	U	1.0		ug/L			06/21/23 20:36	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/21/23 20:36	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Trichloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Vinyl chloride	1.0	U	1.0		ug/L			06/21/23 20:36	1
Xylenes, Total	1.0	U	1.0		ug/L			06/21/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*06/21/23 20:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/21/23 20:36*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*06/21/23 20:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/21/23 20:36*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-130420-1	EB1-0623	105	92	113	101
410-130420-2	MWR3-0623	103	98	103	105
410-130420-3	MWR2-0623	100	101	102	106
410-130420-4	Trip Blank	108	93	114	102
LCS 410-389336/4	Lab Control Sample	100	100	103	106
MB 410-389336/6	Method Blank	108	92	112	102

Surrogate Legend

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

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(13-138)	(44-120)	(10-120)	(31-120)	(10-120)	(30-125)
410-130420-1	EB1-0623	51	70	29	71	20	80
LCS 410-387652/2-A	Lab Control Sample	61	74	36	75	28	72
MB 410-387652/1-A	Method Blank	61	76	32	72	25	89

Surrogate Legend

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

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-389336/6
Matrix: Water
Analysis Batch: 389336

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	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
2-Butanone	10	U	10		ug/L			06/21/23 19:52	1
2-Hexanone	10	U	10		ug/L			06/21/23 19:52	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/21/23 19:52	1
Acetone	20	U	20		ug/L			06/21/23 19:52	1
Benzene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Bromoform	4.0	U	4.0		ug/L			06/21/23 19:52	1
Bromomethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Carbon disulfide	5.0	U	5.0		ug/L			06/21/23 19:52	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chlorobenzene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chloroform	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chloromethane	2.0	U	2.0		ug/L			06/21/23 19:52	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Cyclohexane	5.0	U	5.0		ug/L			06/21/23 19:52	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Ethylbenzene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Freon 113	10	U	10		ug/L			06/21/23 19:52	1
Isopropylbenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
Methyl acetate	5.0	U	5.0		ug/L			06/21/23 19:52	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/21/23 19:52	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/21/23 19:52	1
Methylene Chloride	1.0	U	1.0		ug/L			06/21/23 19:52	1
Styrene	5.0	U	5.0		ug/L			06/21/23 19:52	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Toluene	1.0	U	1.0		ug/L			06/21/23 19:52	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/21/23 19:52	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Trichloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Vinyl chloride	1.0	U	1.0		ug/L			06/21/23 19:52	1
Xylenes, Total	1.0	U	1.0		ug/L			06/21/23 19:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-389336/6
Matrix: Water
Analysis Batch: 389336

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		06/21/23 19:52	1
4-Bromofluorobenzene (Surr)	92		80 - 120		06/21/23 19:52	1
Dibromofluoromethane (Surr)	112		80 - 120		06/21/23 19:52	1
Toluene-d8 (Surr)	102		80 - 120		06/21/23 19:52	1

Lab Sample ID: LCS 410-389336/4
Matrix: Water
Analysis Batch: 389336

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	20.3		ug/L		102	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	72 - 120
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	80 - 120
1,1-Dichloroethane	20.0	20.9		ug/L		104	80 - 120
1,1-Dichloroethene	20.0	22.6		ug/L		113	80 - 131
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		102	47 - 131
1,2-Dibromoethane	20.0	19.1		ug/L		95	77 - 120
1,2-Dichlorobenzene	20.0	18.5		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		98	73 - 124
1,2-Dichloropropane	20.0	20.4		ug/L		102	80 - 120
1,3-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
2-Butanone	250	305		ug/L		122	59 - 135
2-Hexanone	250	309		ug/L		124	56 - 135
4-Methyl-2-pentanone	250	293		ug/L		117	62 - 133
Acetone	250	259		ug/L		104	54 - 157
Benzene	20.0	20.5		ug/L		102	80 - 120
Bromodichloromethane	20.0	19.4		ug/L		97	71 - 120
Bromoform	20.0	19.4		ug/L		97	51 - 120
Bromomethane	20.0	18.7		ug/L		94	53 - 128
Carbon disulfide	20.0	22.7		ug/L		113	65 - 128
Carbon tetrachloride	20.0	21.1		ug/L		105	64 - 134
Chlorobenzene	20.0	18.1		ug/L		90	80 - 120
Chloroethane	20.0	22.4		ug/L		112	55 - 123
Chloroform	20.0	19.9		ug/L		99	80 - 120
Chloromethane	20.0	20.5		ug/L		102	56 - 121
cis-1,2-Dichloroethene	20.0	20.3		ug/L		102	80 - 125
cis-1,3-Dichloropropene	20.0	17.0		ug/L		85	75 - 120
Cyclohexane	20.0	21.0		ug/L		105	68 - 126
Dibromochloromethane	20.0	19.7		ug/L		98	71 - 120
Dichlorodifluoromethane	20.0	17.6		ug/L		88	41 - 127
Ethylbenzene	20.0	18.5		ug/L		92	80 - 120
Freon 113	20.0	21.0		ug/L		105	73 - 139
Isopropylbenzene	20.0	18.8		ug/L		94	80 - 120
Methyl acetate	20.0	25.9		ug/L		129	54 - 136
Methyl tertiary butyl ether	20.0	18.4		ug/L		92	69 - 122
Methylcyclohexane	20.0	18.4		ug/L		92	67 - 121

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-389336/4
Matrix: Water
Analysis Batch: 389336

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	20.0	23.3		ug/L		117	80 - 120
Styrene	20.0	17.7		ug/L		88	80 - 120
Tetrachloroethene	20.0	18.3		ug/L		92	80 - 120
Toluene	20.0	19.1		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	80 - 126
trans-1,3-Dichloropropene	20.0	18.9		ug/L		94	67 - 120
Trichloroethene	20.0	18.1		ug/L		91	80 - 120
Trichlorofluoromethane	20.0	18.3		ug/L		91	55 - 135
Vinyl chloride	20.0	19.5		ug/L		97	56 - 120
Xylenes, Total	60.0	53.7		ug/L		90	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-387652/1-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,2'-oxybis[1-chloropropane]	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4,5-Trichlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4,6-Trichlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dichlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dimethylphenol	10	U	10		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dinitrophenol	30	U	30		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dinitrotoluene	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,6-Dinitrotoluene	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Chloronaphthalene	1.0	U	1.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Chlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Methylnaphthalene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Methylphenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Nitroaniline	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Nitrophenol	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
3,3'-Dichlorobenzidine	10	U	10		ug/L		06/16/23 14:55	06/19/23 08:38	1
3-Nitroaniline	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4,6-Dinitro-2-methylphenol	21	U	21		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Bromophenyl phenyl ether	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Chloro-3-methylphenol	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Chloroaniline	10	U	10		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Chlorophenyl phenyl ether	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Methylphenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Nitroaniline	3.0	U	3.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Nitrophenol	30	U	30		ug/L		06/16/23 14:55	06/19/23 08:38	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-387652/1-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Acenaphthylene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Acetophenone	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Anthracene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Atrazine	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzaldehyde	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[a]anthracene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[a]pyrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[b]fluoranthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[g,h,i]perylene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[k]fluoranthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Bis(2-chloroethoxy)methane	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Bis(2-chloroethyl)ether	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Butyl benzyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Caprolactam	7.0	U	7.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Carbazole	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Chrysene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Dibenz(a,h)anthracene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Dibenzofuran	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Diethyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Dimethyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Di-n-butyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Di-n-octyl phthalate	11	U	11		ug/L		06/16/23 14:55	06/19/23 08:38	1
Fluoranthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Fluorene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachlorobenzene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachlorobutadiene	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachlorocyclopentadiene	11	U	11		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachloroethane	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Isophorone	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Naphthalene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Nitrobenzene	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
N-Nitrosodi-n-propylamine	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
N-Nitrosodiphenylamine	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Pentachlorophenol	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Phenanthrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Phenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Pyrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*13 - 138*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
2-Fluorobiphenyl (Surr)	*76*		*44 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
2-Fluorophenol (Surr)	*32*		*10 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
Nitrobenzene-d5 (Surr)	*72*		*31 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
Phenol-d5 (Surr)	*25*		*10 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
p-Terphenyl-d14 (Surr)	*89*		*30 - 125*	*06/16/23 14:55*	*06/19/23 08:38*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-387652/2-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	50.2		ug/L		100	55 - 120
2,2'-oxybis[1-chloropropane]	50.0	44.5		ug/L		89	43 - 121
2,4,5-Trichlorophenol	50.0	38.3		ug/L		77	60 - 136
2,4,6-Trichlorophenol	50.0	38.7		ug/L		77	63 - 133
2,4-Dichlorophenol	50.0	37.6		ug/L		75	60 - 127
2,4-Dimethylphenol	50.0	49.1		ug/L		98	62 - 120
2,4-Dinitrophenol	100	73.5		ug/L		74	36 - 147
2,4-Dinitrotoluene	50.0	55.2		ug/L		110	66 - 131
2,6-Dinitrotoluene	50.0	54.5		ug/L		109	66 - 129
2-Chloronaphthalene	50.0	47.5		ug/L		95	51 - 120
2-Chlorophenol	50.0	33.3		ug/L		67	57 - 120
2-Methylnaphthalene	50.0	48.3		ug/L		97	53 - 120
2-Methylphenol	50.0	36.6		ug/L		73	58 - 120
2-Nitroaniline	50.0	54.7		ug/L		109	63 - 134
2-Nitrophenol	50.0	39.6		ug/L		79	57 - 127
3,3'-Dichlorobenzidine	100	81.5		ug/L		82	31 - 120
3-Nitroaniline	50.0	47.8		ug/L		96	44 - 125
4,6-Dinitro-2-methylphenol	100	83.3		ug/L		83	54 - 148
4-Bromophenyl phenyl ether	50.0	50.9		ug/L		102	66 - 120
4-Chloro-3-methylphenol	50.0	38.5		ug/L		77	57 - 129
4-Chloroaniline	50.0	42.4		ug/L		85	33 - 120
4-Chlorophenyl phenyl ether	50.0	47.2		ug/L		94	59 - 120
4-Methylphenol	50.0	32.7		ug/L		65	49 - 120
4-Nitroaniline	50.0	51.0		ug/L		102	55 - 126
4-Nitrophenol	100	45.6		ug/L		46	17 - 120
Acenaphthene	50.0	48.9		ug/L		98	59 - 120
Acenaphthylene	50.0	51.0		ug/L		102	61 - 121
Acetophenone	50.0	50.5		ug/L		101	60 - 120
Anthracene	50.0	53.7		ug/L		107	67 - 123
Atrazine	50.0	54.2		ug/L		108	53 - 126
Benzaldehyde	50.0	46.6		ug/L		93	36 - 120
Benzo[a]anthracene	50.0	46.1		ug/L		92	66 - 133
Benzo[a]pyrene	50.0	43.6		ug/L		87	64 - 131
Benzo[b]fluoranthene	50.0	39.7		ug/L		79	64 - 124
Benzo[g,h,i]perylene	50.0	41.1		ug/L		82	60 - 136
Benzo[k]fluoranthene	50.0	45.8		ug/L		92	67 - 132
Bis(2-chloroethoxy)methane	50.0	52.2		ug/L		104	61 - 123
Bis(2-chloroethyl)ether	50.0	50.6		ug/L		101	62 - 120
Bis(2-ethylhexyl) phthalate	50.0	43.3		ug/L		87	60 - 133
Butyl benzyl phthalate	50.0	48.8		ug/L		98	30 - 128
Caprolactam	50.0	11.9		ug/L		24	12 - 120
Carbazole	50.0	55.9		ug/L		112	65 - 135
Chrysene	50.0	48.9		ug/L		98	70 - 128
Dibenz(a,h)anthracene	50.0	39.7		ug/L		79	59 - 135
Dibenzofuran	50.0	51.2		ug/L		102	63 - 120
Diethyl phthalate	50.0	50.9		ug/L		102	46 - 123
Dimethyl phthalate	50.0	49.6		ug/L		99	10 - 135
Di-n-butyl phthalate	50.0	51.2		ug/L		102	58 - 132

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-387652/2-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	50.0	38.8		ug/L		78	52 - 146
Fluoranthene	50.0	50.0		ug/L		100	70 - 128
Fluorene	50.0	51.2		ug/L		102	66 - 120
Hexachlorobenzene	50.0	43.3		ug/L		87	61 - 126
Hexachlorobutadiene	50.0	42.2		ug/L		84	10 - 120
Hexachlorocyclopentadiene	50.0	29.0		ug/L		58	10 - 120
Hexachloroethane	50.0	45.1		ug/L		90	16 - 120
Indeno[1,2,3-cd]pyrene	50.0	37.0		ug/L		74	55 - 134
Isophorone	50.0	49.7		ug/L		99	63 - 124
Naphthalene	50.0	48.3		ug/L		97	55 - 120
Nitrobenzene	50.0	50.5		ug/L		101	59 - 120
N-Nitrosodi-n-propylamine	50.0	48.1		ug/L		96	57 - 120
N-Nitrosodiphenylamine	42.5	46.9		ug/L		110	64 - 130
Pentachlorophenol	100	76.6		ug/L		77	51 - 138
Phenanthrene	50.0	53.1		ug/L		106	66 - 120
Phenol	50.0	19.6		ug/L		39	22 - 120
Pyrene	50.0	51.1		ug/L		102	67 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*61*		*13 - 138*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*
2-Fluorophenol (Surr)	*36*		*10 - 120*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*
Phenol-d5 (Surr)	*28*		*10 - 120*
p-Terphenyl-d14 (Surr)	*72*		*30 - 125*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-389190/1-A
Matrix: Water
Analysis Batch: 389711

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 07:26	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Barium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Calcium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 07:26	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 07:26	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 07:26	1
Iron	0.20	U	0.20		mg/L		06/21/23 11:59	06/22/23 07:26	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 07:26	1
Magnesium	0.10	U	0.10		mg/L		06/21/23 11:59	06/22/23 07:26	1
Manganese	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Potassium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 07:26	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-389190/1-A
Matrix: Water
Analysis Batch: 389711

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Sodium	1.0	U	1.0		mg/L		06/21/23 11:59	06/22/23 07:26	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 07:26	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 07:26	1

Lab Sample ID: LCS 410-389190/2-A
Matrix: Water
Analysis Batch: 389711

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	5.00		mg/L		100	80 - 120
Antimony	0.100	0.101		mg/L		101	80 - 120
Arsenic	0.500	0.518		mg/L		104	80 - 120
Barium	0.500	0.492		mg/L		98	80 - 120
Beryllium	0.0500	0.0479		mg/L		96	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Calcium	5.00	5.07		mg/L		101	80 - 120
Chromium	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Copper	0.500	0.494		mg/L		99	80 - 120
Iron	5.00	5.11		mg/L		102	80 - 120
Lead	0.0500	0.0513		mg/L		103	80 - 120
Magnesium	5.00	5.10		mg/L		102	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120
Nickel	0.500	0.510		mg/L		102	80 - 120
Potassium	5.00	5.14		mg/L		103	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0495		mg/L		99	80 - 120
Sodium	5.00	5.06		mg/L		101	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

Method: 7470A - Mercury

Lab Sample ID: MB 410-388760/1-A
Matrix: Water
Analysis Batch: 389166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 388760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 09:55	1

Lab Sample ID: LCS 410-388760/2-A
Matrix: Water
Analysis Batch: 389166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 388760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.000931		mg/L		93	80 - 118

GC/MS VOA

Analysis Batch: 389336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	8260D	
410-130420-2	MWR3-0623	Total/NA	Water	8260D	
410-130420-3	MWR2-0623	Total/NA	Water	8260D	
410-130420-4	Trip Blank	Total/NA	Water	8260D	
MB 410-389336/6	Method Blank	Total/NA	Water	8260D	
LCS 410-389336/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 387652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	3510C	
MB 410-387652/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-387652/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 387996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	8270E	387652
MB 410-387652/1-A	Method Blank	Total/NA	Water	8270E	387652
LCS 410-387652/2-A	Lab Control Sample	Total/NA	Water	8270E	387652

Metals

Prep Batch: 388760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	7470A	
410-130420-2	MWR3-0623	Total/NA	Water	7470A	
410-130420-3	MWR2-0623	Total/NA	Water	7470A	
MB 410-388760/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-388760/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 389166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	7470A	388760
410-130420-2	MWR3-0623	Total/NA	Water	7470A	388760
410-130420-3	MWR2-0623	Total/NA	Water	7470A	388760
MB 410-388760/1-A	Method Blank	Total/NA	Water	7470A	388760
LCS 410-388760/2-A	Lab Control Sample	Total/NA	Water	7470A	388760

Prep Batch: 389190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total Recoverable	Water	3005A	
410-130420-2	MWR3-0623	Total Recoverable	Water	3005A	
410-130420-3	MWR2-0623	Total Recoverable	Water	3005A	
MB 410-389190/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-389190/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 389711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total Recoverable	Water	6010D	389190
410-130420-2	MWR3-0623	Total Recoverable	Water	6010D	389190
410-130420-3	MWR2-0623	Total Recoverable	Water	6010D	389190

Metals (Continued)

Analysis Batch: 389711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-389190/1-A	Method Blank	Total Recoverable	Water	6010D	389190
LCS 410-389190/2-A	Lab Control Sample	Total Recoverable	Water	6010D	389190

Analysis Batch: 389925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-2	MWR3-0623	Total Recoverable	Water	6010D	389190

Analysis Batch: 390755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-3	MWR2-0623	Total Recoverable	Water	6010D	389190

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/21/23 20:14
Total/NA	Prep	3510C			387652	QJZ6	ELLE	06/16/23 14:55
Total/NA	Analysis	8270E		1	387996	GLQ9	ELLE	06/19/23 12:14
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389711	MT26	ELLE	06/22/23 08:04
Total/NA	Prep	7470A			388760	UAMX	ELLE	06/20/23 23:45
Total/NA	Analysis	7470A		1	389166	UEFS	ELLE	06/21/23 10:27

Client Sample ID: MWR3-0623
Lab Sample ID: 410-130420-2
Date Collected: 06/12/23 10:05
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/22/23 01:44
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389925	T8CQ	ELLE	06/22/23 20:37
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389711	MT26	ELLE	06/22/23 08:17
Total/NA	Prep	7470A			388760	UAMX	ELLE	06/20/23 23:45
Total/NA	Analysis	7470A		1	389166	UEFS	ELLE	06/21/23 10:25

Client Sample ID: MWR2-0623
Lab Sample ID: 410-130420-3
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/22/23 02:06
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389711	MT26	ELLE	06/22/23 08:07
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	390755	MT26	ELLE	06/26/23 09:31
Total/NA	Prep	7470A			388760	UAMX	ELLE	06/20/23 23:45
Total/NA	Analysis	7470A		1	389166	UEFS	ELLE	06/21/23 10:33

Client Sample ID: Trip Blank
Lab Sample ID: 410-130420-4
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/21/23 20:36

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010D	Metals (ICP)	SW846	ELLE
7470A	Mercury	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-130420-1	EB1-0623	Water	06/12/23 07:30	06/13/23 10:05
410-130420-2	MWR3-0623	Water	06/12/23 10:05	06/13/23 10:05
410-130420-3	MWR2-0623	Water	06/12/23 12:15	06/13/23 10:05
410-130420-4	Trip Blank	Water	06/12/23 12:15	06/13/23 10:05

410-130420 Chain of Custody

boratory Management Program LaMP Chain of Custody Record

Page 1 of 1

ARC Project Name: Wellsville OU1 - Bi-Annual Groundwater | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ___ No X

ARC Facility No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Report Type & QC Level: Standard X; Full Data Package

Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	VOCs 8260 TCL List (HCL)	Metals 6010 TAL List (HNO3)	SVOCs (NP)
	EB1-0623	6-12-23	0730		X		6	X		X	X			X	X	X
	MWR3-0623	6-12-23	1005		X		4			X	X			X	X	
	MWR2-0623	6-12-23	1215		X		4			X	X			X	X	
	Trip Blank	6-12-23	1215		X		1				X			X		

Comments: Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Kevin Dye	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Kevin Dye / On-Site					
Shipment Method: FedEx Ship Date: 6-12-23						
Shipment Tracking No: 7724 1606 4797				AH	6-13-23	1005

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: RAW: 1.9 COR: 1.9 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-130420-1

Login Number: 130420

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 389336 | Batch Start Date: 06/21/23 18:04 | Batch Analyst: Drexinger, Marissa C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-389336/4		8260D		5 mL	5 mL				2692
MB 410-389336/6		8260D		5 mL	5 mL				2692
410-130420-A-1	EB1-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130420-A-4	Trip Blank	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130420-A-2	MWR3-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130420-A-3	MWR2-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP20_ISSS 00106	MSV_LCS_2CEVE 00120	MSV_LCS_ACROL 00118	MSV_LCS_Gases 00147	MSV_LCS_VOC#1 00115	
LCS 410-389336/4		8260D		1 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-389336/6		8260D		1 uL					
410-130420-A-1	EB1-0623	8260D	T	1 uL					
410-130420-A-4	Trip Blank	8260D	T	1 uL					
410-130420-A-2	MWR3-0623	8260D	T	1 uL					
410-130420-A-3	MWR2-0623	8260D	T	1 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 387652 | Batch Start Date: 06/16/23 14:55 | Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C | Batch End Date: 06/16/23 19:14

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-387652/1		3510C, 8270E				250 mL	1 mL	N/A SU	11 SU
LCS 410-387652/2		3510C, 8270E				250 mL	1 mL	N/A SU	11 SU
410-130420-E-1	EB1-0623	3510C, 8270E	T	405.41 g	167.55 g	237.9 mL	1 mL	N/A SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00091	OP_MINLCS1_MS 00171	OP_MINLCS2_MS 00098	AnalysisComment	
MB 410-387652/1		3510C, 8270E		2 SU	1 mL			tap water	
LCS 410-387652/2		3510C, 8270E		2 SU	1 mL	1 mL	1 mL	tap water	
410-130420-E-1	EB1-0623	3510C, 8270E	T	2 SU	1 mL			clear	

Batch Notes	
Balance ID	17609
Pipette/Syringe/Dispenser ID	3
Analyst ID - Extraction	OS11067 DBH82588
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4: 225533
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231028
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23166A
Analyst ID - Concentration	OS11067 DBH82588
Equipment ID - Concentration 1	BUCHI
Thermometer ID - Concentration 1	1129661
Concentration 1 Corrected Temperature	55 Degrees C
Equipment ID - Concentration 2	Steam bath 6
Thermometer ID - Concentration 2	1129661
Concentration 2 Corrected Temperature	95 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 387652 Batch Start Date: 06/16/23 14:55 Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C Batch End Date: 06/16/23 19:14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 389190 | Batch Start Date: 06/21/23 20:30 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 3005A | Batch End Date: 06/22/23 00:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00028	MP_1:1HNO3 00043	MT_LCS-SPK-A 00027	MT_LCS-SPK-B 00026
MB 410-389190/1		3005A, 6010D		50 mL	50 mL	5 mL	2 mL		
LCS 410-389190/2		3005A, 6010D		50 mL	50 mL	5 mL	2 mL	0.2 mL	0.2 mL
410-130420-G-1	EB1-0623	3005A, 6010D	R	50 mL	50 mL	5 mL	2 mL		
410-130420-E-3	MWR2-0623	3005A, 6010D	R	50 mL	50 mL	5 mL	2 mL		
410-130420-E-2	MWR3-0623	3005A, 6010D	R	50 mL	50 mL	5 mL	2 mL		

Batch Notes	
Digestion Tube/Cup ID	2211204
Pipette/Syringe/Dispenser ID	g20054g
Pipette Tip Lot ID	f169949r
Digestion Unit ID	16
Thermometer ID	3811
Temperature - Uncorrected - Start	95 Degrees C
Temperature - Corrected - Start	95 Degrees C
Temperature - Uncorrected - End	95 Degrees C
Temperature - Corrected - End	95 Degrees C

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 388760 | Batch Start Date: 06/20/23 23:45 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 7470A | Batch End Date: 06/21/23 01:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Hg_5%KMnO4 00182	MP_40Hg_IV 00159	MP_5K2S2O8 00089	MP_NaClHNO 00190
MB 410-388760/1		7470A, 7470A		20 mL	20 mL	3 mL		1.6 mL	1.2 mL
LCS 410-388760/2		7470A, 7470A		20 mL	20 mL	3 mL	0.5 mL	1.6 mL	1.2 mL
410-130420-I-2	MWR3-0623	7470A, 7470A	T	20 mL	20 mL	3 mL		1.6 mL	1.2 mL
410-130420-H-1	EB1-0623	7470A, 7470A	T	20 mL	20 mL	3 mL		1.6 mL	1.2 mL
410-130420-F-3	MWR2-0623	7470A, 7470A	T	20 mL	20 mL	3 mL		1.6 mL	1.2 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MT_HNO3_Fishe 00008	MT_SULF_FI 00019				
MB 410-388760/1		7470A, 7470A		0.5 mL	1 mL				
LCS 410-388760/2		7470A, 7470A		0.5 mL	1 mL				
410-130420-I-2	MWR3-0623	7470A, 7470A	T	0.5 mL	1 mL				
410-130420-H-1	EB1-0623	7470A, 7470A	T	0.5 mL	1 mL				
410-130420-F-3	MWR2-0623	7470A, 7470A	T	0.5 mL	1 mL				

Batch Notes	
Digestion Tube/Cup ID	2211204
Pipette/Syringe/Dispenser ID	s/500
Digestion Unit ID	11
Thermometer ID	3811
Temperature - Uncorrected - Start	95 Degrees C
Temperature - Corrected - Start	95 Degrees C
Temperature - Uncorrected - End	95 Degrees C
Temperature - Corrected - End	95 Degrees C
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

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JOB DESCRIPTION

Wellsville OU2 - Annual Manholes

JOB NUMBER

410-129603-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

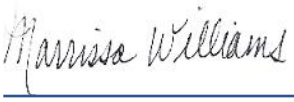
myEOL

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Damiter, Project Manager
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(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
cn	Refer to Case Narrative for further detail
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.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F3	Duplicate RPD exceeds the control limit
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
410-129603-1

REVISION

The report being provided is a revision of the original report sent on 6/21/2023. The report (revision 1) is being revised due to results for Aniline via method 625.1 are now included.

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 6/7/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3°C and 1.7°C

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-386398 recovered outside acceptance criteria, low biased, for 1,2-Dichloroethane, Bromomethane, Chloroethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-387239 recovered above the upper control limit for Freon 113. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MHH-060623 (410-129603-7). Elevated reporting limits (RLs) are provided.

Method 8260D_LL: The method requirement for no headspace was not met. The container (s) used for reanalysis of the following samples contained headspace: MHB-060623 (410-129603-2), MHC-060623 (410-129603-3) and MHF-060623 (410-129603-5). The sample container was received without headspace.

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 following sample was diluted due to the nature of the sample matrix: MHC-060623 (410-129603-3). Elevated reporting limits (RLs) are provided.

Method 625.1_PREC: The continuing calibration verification (CCV) associated with batch 410-385552 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 625.1_PREC: The result for Aniline exceeds the upper calibration range. The client was contacted and the data is reported since this analyte was requested after the analysis holding time had expired.

MHC-060623 (410-129603-3)

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

Detection Summary

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHA-060623 — Lab Sample ID: 410-129603-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.52		0.50		ug/L	1		8260D	Total/NA
Benzene	9.2		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	9.5		0.50		ug/L	1		8260D	Total/NA
Toluene	1.8		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	2.7		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	75		5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	52		5.0		ug/L	10		8260D	Total/NA
Arsenic	120		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	32000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3900		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	15		5.5		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHB-060623 — Lab Sample ID: 410-129603-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.6		0.50		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.8		0.50		ug/L	1		8260D	Total/NA
Ethylbenzene	0.52		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	5.1		0.50		ug/L	1		8260D	Total/NA
Toluene	2.7		0.50		ug/L	1		8260D	Total/NA
Vinyl chloride	1.6		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	3.8		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	45	cn	5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	28	cn	5.0		ug/L	10		8260D	Total/NA
Aniline - DL	1100		260		ug/L	50		625.1	Total/NA
Nitrobenzene - DL	2300		260		ug/L	50		625.1	Total/NA
Arsenic	110		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	30000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3100	^2	2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	43		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHC-060623 — Lab Sample ID: 410-129603-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2		0.50		ug/L	1		8260D	Total/NA
Ethylbenzene	4.7		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	8.4		0.50		ug/L	1		8260D	Total/NA
Toluene	9.9		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	17		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	30	cn	5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	40	cn	5.0		ug/L	10		8260D	Total/NA
Aniline	3800	E cn	51		ug/L	10		625.1	Total/NA
Arsenic	94		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	83000		500		ug/L	10		200.8 Rev 5.4	Total/NA
Manganese	4600		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	610		30		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHD-060623 — Lab Sample ID: 410-129603-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	5.8		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	1.6		0.50		ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MHD-060623 (Continued) — Lab Sample ID: 410-129603-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	1.6		0.50		ug/L	1		8260D	Total/NA
Nitrobenzene	15		5.2		ug/L	1		625.1	Total/NA
Arsenic	27		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	25000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	2700	^2	2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	57		7.5		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHF-060623 — Lab Sample ID: 410-129603-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.4		0.50		ug/L	1		8260D	Total/NA
Ethylbenzene	0.51		0.50		ug/L	1		8260D	Total/NA
Isopropylbenzene	21		0.50		ug/L	1		8260D	Total/NA
Toluene	1.2		0.50		ug/L	1		8260D	Total/NA
Xylenes, Total	2.4		1.0		ug/L	1		8260D	Total/NA
Cyclohexane - DL	140	cn	5.0		ug/L	10		8260D	Total/NA
Methylcyclohexane - DL	160	cn	5.0		ug/L	10		8260D	Total/NA
Arsenic	47		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	34000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4800		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	31		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHG-060623 — Lab Sample ID: 410-129603-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0		ug/L	2		8260D	Total/NA
Ethylbenzene	6.2		1.0		ug/L	2		8260D	Total/NA
Isopropylbenzene	32		1.0		ug/L	2		8260D	Total/NA
Toluene	3.0		1.0		ug/L	2		8260D	Total/NA
Xylenes, Total	7.0		2.0		ug/L	2		8260D	Total/NA
Cyclohexane - DL	270		10		ug/L	20		8260D	Total/NA
Methylcyclohexane - DL	420		10		ug/L	20		8260D	Total/NA
Arsenic	62		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	30000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	4100		20		ug/L	10		200.8 Rev 5.4	Total/NA
Total Suspended Solids	24		5.5		mg/L	1		2540D-2015	Total/NA

Client Sample ID: MHH-060623 — Lab Sample ID: 410-129603-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	180	cn	100		ug/L	200		8260D	Total/NA
Methylcyclohexane	260	cn	100		ug/L	200		8260D	Total/NA
Arsenic	28		2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Iron	20000		50		ug/L	1		200.8 Rev 5.4	Total/NA
Manganese	3500	^2	2.0		ug/L	1		200.8 Rev 5.4	Total/NA
Total Suspended Solids	44		6.0		mg/L	1		2540D-2015	Total/NA

Client Sample ID: Trip blank — Lab Sample ID: 410-129603-8

No Detections.

This Detection Summary does not include radiochemical test results.

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHA-060623

Date Collected: 06/06/23 10:30
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,1-Dichloroethane	**0.52**		0.50		ug/L			06/14/23 15:13	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,2-Dichloroethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 15:13	1
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 15:13	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 15:13	1
Acetone	5.0	U	5.0		ug/L			06/14/23 15:13	1
Benzene	**9.2**		0.50		ug/L			06/14/23 15:13	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 15:13	1
Bromomethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 15:13	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 15:13	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Chloroethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 15:13	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
Dichlorodifluoromethane	0.50	U cn	0.50		ug/L			06/14/23 15:13	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 15:13	1
Isopropylbenzene	**9.5**		0.50		ug/L			06/14/23 15:13	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 15:13	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 15:13	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 15:13	1
Styrene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Toluene	**1.8**		0.50		ug/L			06/14/23 15:13	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 15:13	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 15:13	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 15:13	1
Xylenes, Total	**2.7**		1.0		ug/L			06/14/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*06/14/23 15:13*	*1*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*06/14/23 15:13*	*1*

Client Sample ID: MHA-060623
Date Collected: 06/06/23 10:30
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*06/14/23 15:13*	*1*
Toluene-d8 (Surr)	*119*		*80 - 120*		*06/14/23 15:13*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**75**		5.0		ug/L			06/16/23 01:48	10
Methylcyclohexane	**52**		5.0		ug/L			06/16/23 01:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/16/23 01:48*	*10*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/16/23 01:48*	*10*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/16/23 01:48*	*10*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/16/23 01:48*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4,5-Trichlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4,6-Trichlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dichlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dimethylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dinitrophenol	11	U	11		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,4-Dinitrotoluene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2,6-Dinitrotoluene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Chloronaphthalene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Chlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Methylnaphthalene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Methylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Nitroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
2-Nitrophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
3,3'-Dichlorobenzidine	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
3-Nitroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4,6-Dinitro-2-methylphenol	11	U cn	11		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Bromophenyl phenyl ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Chloro-3-methylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Chloroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Chlorophenyl phenyl ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Methylphenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Nitroaniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
4-Nitrophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Acenaphthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Acenaphthylene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Acetophenone	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Aniline	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Anthracene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[a]anthracene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[a]pyrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[b]fluoranthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[g,h,i]perylene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Benzo[k]fluoranthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1

Client Sample ID: MHA-060623
Lab Sample ID: 410-129603-1

Date Collected: 06/06/23 10:30
Matrix: Water

Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Bis(2-chloroethoxy)methane	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Bis(2-chloroethyl)ether	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Bis(2-ethylhexyl) phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Butyl benzyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Carbazole	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Chrysene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Dibenz(a,h)anthracene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Dibenzofuran	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Diethyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Dimethyl phthalate	5.3	U *1	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Di-n-butyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Di-n-octyl phthalate	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Fluoranthene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Fluorene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachlorobenzene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 21:46	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Indeno[1,2,3-cd]pyrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Isophorone	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Nitrobenzene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
N-Nitrosodi-n-propylamine	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
N-Nitrosodiphenylamine	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Pentachlorophenol	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Phenanthrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1
Phenol	1.1	U	1.1		ug/L		06/12/23 07:37	06/12/23 21:46	1
Pyrene	5.3	U	5.3		ug/L		06/12/23 07:37	06/12/23 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*10 - 150*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
2-Fluorobiphenyl (Surr)	*66*		*32 - 115*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 83*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
Nitrobenzene-d5 (Surr)	*69*		*41 - 121*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
Phenol-d5 (Surr)	*28*		*10 - 63*	*06/12/23 07:37*	*06/12/23 21:46*	*1*
p-Terphenyl-d14 (Surr)	*50*		*28 - 134*	*06/12/23 07:37*	*06/12/23 21:46*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**120**		2.0		ug/L		06/14/23 08:40	06/21/23 09:05	1
Iron	**32000**		50		ug/L		06/14/23 08:40	06/21/23 09:05	1
Manganese	**3900**		20		ug/L		06/14/23 08:40	06/21/23 11:44	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**15**		5.5		mg/L			06/08/23 09:29	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHB-060623

Date Collected: 06/06/23 10:45
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
2-Butanone	5.0	U	5.0		ug/L			06/15/23 23:46	1
2-Hexanone	5.0	U	5.0		ug/L			06/15/23 23:46	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/15/23 23:46	1
Acetone	5.0	U	5.0		ug/L			06/15/23 23:46	1
Benzene	**4.6**		0.50		ug/L			06/15/23 23:46	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Bromoform	1.0	U	1.0		ug/L			06/15/23 23:46	1
Bromomethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Carbon disulfide	1.0	U	1.0		ug/L			06/15/23 23:46	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chloroethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chloroform	0.50	U	0.50		ug/L			06/15/23 23:46	1
Chloromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
cis-1,2-Dichloroethene	**2.8**		0.50		ug/L			06/15/23 23:46	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Ethylbenzene	**0.52**		0.50		ug/L			06/15/23 23:46	1
Freon 113	0.50	U cn	0.50		ug/L			06/15/23 23:46	1
Isopropylbenzene	**5.1**		0.50		ug/L			06/15/23 23:46	1
Methyl acetate	1.0	U	1.0		ug/L			06/15/23 23:46	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/15/23 23:46	1
Methylene Chloride	0.50	U	0.50		ug/L			06/15/23 23:46	1
Styrene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Toluene	**2.7**		0.50		ug/L			06/15/23 23:46	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Trichloroethene	0.50	U	0.50		ug/L			06/15/23 23:46	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/15/23 23:46	1
Vinyl chloride	**1.6**		0.50		ug/L			06/15/23 23:46	1
Xylenes, Total	**3.8**		1.0		ug/L			06/15/23 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/15/23 23:46*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/15/23 23:46*	*1*

Client Sample ID: MHB-060623
Lab Sample ID: 410-129603-2
Date Collected: 06/06/23 10:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*06/15/23 23:46*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/15/23 23:46*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**45**	**cn**	5.0		ug/L			06/16/23 00:07	10
Methylcyclohexane	**28**	**cn**	5.0		ug/L			06/16/23 00:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*
Dibromofluoromethane (Surr)	*106*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*
4-Bromofluorobenzene (Surr)	*98*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*
Toluene-d8 (Surr)	*91*	*cn*	*80 - 120*		*06/16/23 00:07*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4,6-Dinitro-2-methylphenol	10	U cn	10		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHB-060623
Date Collected: 06/06/23 10:45
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Dimethyl phthalate	5.2	U *1	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 22:07	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 22:07	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 22:07	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 22:07	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*10 - 150*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
2-Fluorobiphenyl (Surr)	*65*		*32 - 115*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 83*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
Nitrobenzene-d5 (Surr)	*64*		*41 - 121*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
Phenol-d5 (Surr)	*31*		*10 - 63*	*06/12/23 07:37*	*06/12/23 22:07*	*1*
p-Terphenyl-d14 (Surr)	*62*		*28 - 134*	*06/12/23 07:37*	*06/12/23 22:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**1100**		260		ug/L		06/12/23 07:37	06/14/23 00:56	50
Nitrobenzene	**2300**		260		ug/L		06/12/23 07:37	06/14/23 00:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 150*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
2-Fluorobiphenyl (Surr)	*78*		*32 - 115*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
2-Fluorophenol (Surr)	*50*		*10 - 83*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
Nitrobenzene-d5 (Surr)	*77*		*41 - 121*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
Phenol-d5 (Surr)	*32*		*10 - 63*	*06/12/23 07:37*	*06/14/23 00:56*	*50*
p-Terphenyl-d14 (Surr)	*71*		*28 - 134*	*06/12/23 07:37*	*06/14/23 00:56*	*50*

Client Sample ID: MHB-060623
Lab Sample ID: 410-129603-2
Date Collected: 06/06/23 10:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**110**		2.0		ug/L		06/14/23 08:40	06/21/23 09:07	1
Iron	**30000**		50		ug/L		06/14/23 08:40	06/21/23 09:07	1
Manganese	**3100**	**^2**	2.0		ug/L		06/14/23 08:40	06/21/23 09:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**43**		6.0		mg/L			06/08/23 09:29	1

Client Sample ID: MHC-060623
Lab Sample ID: 410-129603-3
Date Collected: 06/06/23 11:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
2-Butanone	5.0	U	5.0		ug/L			06/16/23 00:27	1
2-Hexanone	5.0	U	5.0		ug/L			06/16/23 00:27	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/16/23 00:27	1
Acetone	5.0	U	5.0		ug/L			06/16/23 00:27	1
Benzene	**3.2**		0.50		ug/L			06/16/23 00:27	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Bromoform	1.0	U	1.0		ug/L			06/16/23 00:27	1
Bromomethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Carbon disulfide	1.0	U	1.0		ug/L			06/16/23 00:27	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chlorobenzene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chloroethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chloroform	0.50	U	0.50		ug/L			06/16/23 00:27	1
Chloromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Ethylbenzene	**4.7**		0.50		ug/L			06/16/23 00:27	1
Freon 113	0.50	U cn	0.50		ug/L			06/16/23 00:27	1
Isopropylbenzene	**8.4**		0.50		ug/L			06/16/23 00:27	1
Methyl acetate	1.0	U	1.0		ug/L			06/16/23 00:27	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHC-060623

Date Collected: 06/06/23 11:00
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/16/23 00:27	1
Methylene Chloride	0.50	U	0.50		ug/L			06/16/23 00:27	1
Styrene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Toluene	**9.9**		0.50		ug/L			06/16/23 00:27	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Trichloroethene	0.50	U	0.50		ug/L			06/16/23 00:27	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/16/23 00:27	1
Vinyl chloride	0.50	U	0.50		ug/L			06/16/23 00:27	1
Xylenes, Total	**17**		1.0		ug/L			06/16/23 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*06/16/23 00:27*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/16/23 00:27*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/16/23 00:27*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/16/23 00:27*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**30**	**cn**	5.0		ug/L			06/16/23 00:47	10
Methylcyclohexane	**40**	**cn**	5.0		ug/L			06/16/23 00:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*
Dibromofluoromethane (Surr)	*106*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*
4-Bromofluorobenzene (Surr)	*99*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*
Toluene-d8 (Surr)	*92*	*cn*	*80 - 120*		*06/16/23 00:47*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4,5-Trichlorophenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4,6-Trichlorophenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dichlorophenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dimethylphenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dinitrophenol	100	U cn	100		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,4-Dinitrotoluene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2,6-Dinitrotoluene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Chloronaphthalene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Chlorophenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Methylnaphthalene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Methylphenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Nitroaniline	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
2-Nitrophenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
3,3'-Dichlorobenzidine	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
3-Nitroaniline	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4,6-Dinitro-2-methylphenol	100	U cn	100		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Bromophenyl phenyl ether	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Chloro-3-methylphenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHC-060623
Lab Sample ID: 410-129603-3
Date Collected: 06/06/23 11:00
Matrix: Water
Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Chlorophenyl phenyl ether	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Methylphenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Nitroaniline	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
4-Nitrophenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Acenaphthene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Acenaphthylene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Acetophenone	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Aniline	**3800**	**E cn**	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Anthracene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[a]anthracene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[a]pyrene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[b]fluoranthene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[g,h,i]perylene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Benzo[k]fluoranthene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
bis (2-chloroisopropyl) ether	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Bis(2-chloroethoxy)methane	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Bis(2-chloroethyl)ether	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Bis(2-ethylhexyl) phthalate	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Butyl benzyl phthalate	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Carbazole	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Chrysene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Dibenz(a,h)anthracene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Dibenzofuran	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Diethyl phthalate	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Dimethyl phthalate	51	U *1 cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Di-n-butyl phthalate	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Di-n-octyl phthalate	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Fluoranthene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Fluorene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachlorobenzene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachlorobutadiene	20	U *1 cn	20		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachlorocyclopentadiene	150	U *1 cn	150		ug/L		06/12/23 07:37	06/12/23 22:28	10
Hexachloroethane	20	U *1 cn	20		ug/L		06/12/23 07:37	06/12/23 22:28	10
Indeno[1,2,3-cd]pyrene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Isophorone	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Naphthalene	20	U cn	20		ug/L		06/12/23 07:37	06/12/23 22:28	10
Nitrobenzene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
N-Nitrosodi-n-propylamine	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
N-Nitrosodiphenylamine	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Pentachlorophenol	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Phenanthrene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10
Phenol	10	U cn	10		ug/L		06/12/23 07:37	06/12/23 22:28	10
Pyrene	51	U cn	51		ug/L		06/12/23 07:37	06/12/23 22:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*	*cn*	*10 - 150*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
2-Fluorobiphenyl (Surr)	*69*	*cn*	*32 - 115*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
2-Fluorophenol (Surr)	*26*	*cn*	*10 - 83*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
Nitrobenzene-d5 (Surr)	*4*	*S1- cn*	*41 - 121*	*06/12/23 07:37*	*06/12/23 22:28*	*10*

Client Sample ID: MHC-060623
Lab Sample ID: 410-129603-3
Date Collected: 06/06/23 11:00
Matrix: Water
Date Received: 06/07/23 09:55

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*24*	*cn*	*10 - 63*	*06/12/23 07:37*	*06/12/23 22:28*	*10*
p-Terphenyl-d14 (Surr)	*59*	*cn*	*28 - 134*	*06/12/23 07:37*	*06/12/23 22:28*	*10*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**94**		2.0		ug/L		06/14/23 08:40	06/21/23 08:40	1
Iron	**83000**		500		ug/L		06/14/23 08:40	06/21/23 11:30	10
Manganese	**4600**		20		ug/L		06/14/23 08:40	06/21/23 11:30	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**610**		30		mg/L			06/08/23 09:29	1

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4
Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
2-Butanone	5.0	U	5.0		ug/L			06/15/23 23:26	1
2-Hexanone	5.0	U	5.0		ug/L			06/15/23 23:26	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/15/23 23:26	1
Acetone	5.0	U	5.0		ug/L			06/15/23 23:26	1
Benzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Bromoform	1.0	U	1.0		ug/L			06/15/23 23:26	1
Bromomethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Carbon disulfide	1.0	U	1.0		ug/L			06/15/23 23:26	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chlorobenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chloroethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chloroform	0.50	U	0.50		ug/L			06/15/23 23:26	1
Chloromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Cyclohexane	**5.8**		0.50		ug/L			06/15/23 23:26	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHD-060623

Date Collected: 06/06/23 11:15
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Ethylbenzene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Freon 113	0.50	U cn	0.50		ug/L			06/15/23 23:26	1
Isopropylbenzene	**1.6**		0.50		ug/L			06/15/23 23:26	1
Methyl acetate	1.0	U	1.0		ug/L			06/15/23 23:26	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/15/23 23:26	1
Methylcyclohexane	**1.6**		0.50		ug/L			06/15/23 23:26	1
Methylene Chloride	0.50	U	0.50		ug/L			06/15/23 23:26	1
Styrene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Toluene	0.50	U	0.50		ug/L			06/15/23 23:26	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Trichloroethene	0.50	U	0.50		ug/L			06/15/23 23:26	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/15/23 23:26	1
Vinyl chloride	0.50	U	0.50		ug/L			06/15/23 23:26	1
Xylenes, Total	1.0	U	1.0		ug/L			06/15/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/15/23 23:26*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/15/23 23:26*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/15/23 23:26*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/15/23 23:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4,6-Dinitro-2-methylphenol	10	U cn	10		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHD-060623
Date Collected: 06/06/23 11:15
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Aniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Dimethyl phthalate	5.2	U *1	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachlorobutadiene	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachlorocyclopentadiene	16	U *1	16		ug/L		06/12/23 07:37	06/12/23 23:05	1
Hexachloroethane	2.1	U *1	2.1		ug/L		06/12/23 07:37	06/12/23 23:05	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:05	1
Nitrobenzene	**15**		5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 23:05	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 150*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
2-Fluorobiphenyl (Surr)	*67*		*32 - 115*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 83*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
Nitrobenzene-d5 (Surr)	*64*		*41 - 121*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
Phenol-d5 (Surr)	*29*		*10 - 63*	*06/12/23 07:37*	*06/12/23 23:05*	*1*
p-Terphenyl-d14 (Surr)	*59*		*28 - 134*	*06/12/23 07:37*	*06/12/23 23:05*	*1*

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4
Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**27**		2.0		ug/L		06/14/23 08:40	06/21/23 09:03	1
Iron	**25000**		50		ug/L		06/14/23 08:40	06/21/23 09:03	1
Manganese	**2700**	**^2**	2.0		ug/L		06/14/23 08:40	06/21/23 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**57**		7.5		mg/L			06/08/23 09:29	1

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5
Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
2-Butanone	5.0	U	5.0		ug/L			06/16/23 01:07	1
2-Hexanone	5.0	U	5.0		ug/L			06/16/23 01:07	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/16/23 01:07	1
Acetone	5.0	U	5.0		ug/L			06/16/23 01:07	1
Benzene	**5.4**		0.50		ug/L			06/16/23 01:07	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Bromoform	1.0	U	1.0		ug/L			06/16/23 01:07	1
Bromomethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Carbon disulfide	1.0	U	1.0		ug/L			06/16/23 01:07	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chlorobenzene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chloroethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chloroform	0.50	U	0.50		ug/L			06/16/23 01:07	1
Chloromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Ethylbenzene	**0.51**		0.50		ug/L			06/16/23 01:07	1
Freon 113	0.50	U cn	0.50		ug/L			06/16/23 01:07	1
Isopropylbenzene	**21**		0.50		ug/L			06/16/23 01:07	1
Methyl acetate	1.0	U	1.0		ug/L			06/16/23 01:07	1

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHF-060623

Date Collected: 06/06/23 11:30
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/16/23 01:07	1
Methylene Chloride	0.50	U	0.50		ug/L			06/16/23 01:07	1
Styrene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Toluene	**1.2**		0.50		ug/L			06/16/23 01:07	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Trichloroethene	0.50	U	0.50		ug/L			06/16/23 01:07	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/16/23 01:07	1
Vinyl chloride	0.50	U	0.50		ug/L			06/16/23 01:07	1
Xylenes, Total	**2.4**		1.0		ug/L			06/16/23 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*06/16/23 01:07*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/16/23 01:07*	*1*
4-Bromofluorobenzene (Surr)	*117*		*80 - 120*		*06/16/23 01:07*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/16/23 01:07*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**140**	**cn**	5.0		ug/L			06/16/23 01:28	10
Methylcyclohexane	**160**	**cn**	5.0		ug/L			06/16/23 01:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*
Dibromofluoromethane (Surr)	*106*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*
4-Bromofluorobenzene (Surr)	*101*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*
Toluene-d8 (Surr)	*93*	*cn*	*80 - 120*		*06/16/23 01:28*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4,6-Dinitro-2-methylphenol	10	U cn	10		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5
Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Aniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Dimethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachlorobutadiene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachlorocyclopentadiene	16	U	16		ug/L		06/12/23 07:37	06/12/23 23:26	1
Hexachloroethane	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:26	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:26	1
Nitrobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 23:26	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*10 - 150*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
2-Fluorobiphenyl (Surr)	*58*		*32 - 115*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
2-Fluorophenol (Surr)	*29*		*10 - 83*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
Nitrobenzene-d5 (Surr)	*66*		*41 - 121*	*06/12/23 07:37*	*06/12/23 23:26*	*1*

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5

Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*21*		*10 - 63*	*06/12/23 07:37*	*06/12/23 23:26*	*1*
p-Terphenyl-d14 (Surr)	*49*		*28 - 134*	*06/12/23 07:37*	*06/12/23 23:26*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**47**		2.0		ug/L		06/14/23 08:40	06/21/23 09:00	1
Iron	**34000**		50		ug/L		06/14/23 08:40	06/21/23 09:00	1
Manganese	**4800**		20		ug/L		06/14/23 08:40	06/21/23 11:42	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**31**		6.0		mg/L			06/08/23 09:29	1

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6

Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2,4-Trichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dibromo-3-Chloropropane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,3-Dichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
1,4-Dichlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
2-Butanone	10	U	10		ug/L			06/16/23 02:29	2
2-Hexanone	10	U	10		ug/L			06/16/23 02:29	2
4-Methyl-2-pentanone	10	U	10		ug/L			06/16/23 02:29	2
Acetone	10	U	10		ug/L			06/16/23 02:29	2
Benzene	**11**		1.0		ug/L			06/16/23 02:29	2
Bromodichloromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Bromoform	2.0	U	2.0		ug/L			06/16/23 02:29	2
Bromomethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Carbon disulfide	2.0	U	2.0		ug/L			06/16/23 02:29	2
Carbon tetrachloride	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chlorobenzene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chloroethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chloroform	1.0	U	1.0		ug/L			06/16/23 02:29	2
Chloromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Dibromochloromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6

Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Ethylbenzene	**6.2**		1.0		ug/L			06/16/23 02:29	2
Freon 113	1.0	U cn	1.0		ug/L			06/16/23 02:29	2
Isopropylbenzene	**32**		1.0		ug/L			06/16/23 02:29	2
Methyl acetate	2.0	U	2.0		ug/L			06/16/23 02:29	2
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/16/23 02:29	2
Methylene Chloride	1.0	U	1.0		ug/L			06/16/23 02:29	2
Styrene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Tetrachloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Toluene	**3.0**		1.0		ug/L			06/16/23 02:29	2
trans-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Trichloroethene	1.0	U	1.0		ug/L			06/16/23 02:29	2
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/16/23 02:29	2
Vinyl chloride	1.0	U	1.0		ug/L			06/16/23 02:29	2
Xylenes, Total	**7.0**		2.0		ug/L			06/16/23 02:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/16/23 02:29*	*2*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/16/23 02:29*	*2*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/16/23 02:29*	*2*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/16/23 02:29*	*2*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	**270**		10		ug/L			06/16/23 02:49	20
Methylcyclohexane	**420**		10		ug/L			06/16/23 02:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/16/23 02:49*	*20*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/16/23 02:49*	*20*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/16/23 02:49*	*20*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/16/23 02:49*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6
Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4,6-Dinitro-2-methylphenol	10	U cn	10		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Aniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Dimethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachlorobutadiene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachlorocyclopentadiene	16	U	16		ug/L		06/12/23 07:37	06/12/23 23:47	1
Hexachloroethane	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:47	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/12/23 23:47	1
Nitrobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 23:47	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/12/23 23:47	1

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6

Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 150*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
2-Fluorobiphenyl (Surr)	*67*		*32 - 115*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 83*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
Nitrobenzene-d5 (Surr)	*71*		*41 - 121*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
Phenol-d5 (Surr)	*31*		*10 - 63*	*06/12/23 07:37*	*06/12/23 23:47*	*1*
p-Terphenyl-d14 (Surr)	*56*		*28 - 134*	*06/12/23 07:37*	*06/12/23 23:47*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**62**		2.0		ug/L		06/14/23 08:40	06/21/23 08:58	1
Iron	**30000**		50		ug/L		06/14/23 08:40	06/21/23 08:58	1
Manganese	**4100**		20		ug/L		06/14/23 08:40	06/21/23 11:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**24**		5.5		mg/L			06/08/23 09:29	1

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7

Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1,2,2-Tetrachloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1,2-Trichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1-Dichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,1-Dichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
1,2,4-Trichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dibromo-3-Chloropropane	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dibromoethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dichloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
1,2-Dichloropropane	100	U cn	100		ug/L			06/16/23 03:10	200
1,3-Dichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
1,4-Dichlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
2-Butanone	1000	U cn	1000		ug/L			06/16/23 03:10	200
2-Hexanone	1000	U cn	1000		ug/L			06/16/23 03:10	200
4-Methyl-2-pentanone	1000	U cn	1000		ug/L			06/16/23 03:10	200
Acetone	1000	U cn	1000		ug/L			06/16/23 03:10	200
Benzene	100	U cn	100		ug/L			06/16/23 03:10	200
Bromodichloromethane	100	U cn	100		ug/L			06/16/23 03:10	200
Bromoform	200	U cn	200		ug/L			06/16/23 03:10	200
Bromomethane	100	U cn	100		ug/L			06/16/23 03:10	200
Carbon disulfide	200	U cn	200		ug/L			06/16/23 03:10	200
Carbon tetrachloride	100	U cn	100		ug/L			06/16/23 03:10	200
Chlorobenzene	100	U cn	100		ug/L			06/16/23 03:10	200
Chloroethane	100	U cn	100		ug/L			06/16/23 03:10	200
Chloroform	100	U cn	100		ug/L			06/16/23 03:10	200
Chloromethane	100	U cn	100		ug/L			06/16/23 03:10	200

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7

Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
cis-1,3-Dichloropropene	100	U cn	100		ug/L			06/16/23 03:10	200
Cyclohexane	**180**	**cn**	100		ug/L			06/16/23 03:10	200
Dibromochloromethane	100	U cn	100		ug/L			06/16/23 03:10	200
Dichlorodifluoromethane	100	U cn	100		ug/L			06/16/23 03:10	200
Ethylbenzene	100	U cn	100		ug/L			06/16/23 03:10	200
Freon 113	100	U cn	100		ug/L			06/16/23 03:10	200
Isopropylbenzene	100	U cn	100		ug/L			06/16/23 03:10	200
Methyl acetate	200	U cn	200		ug/L			06/16/23 03:10	200
Methyl tertiary butyl ether	100	U cn	100		ug/L			06/16/23 03:10	200
Methylcyclohexane	**260**	**cn**	100		ug/L			06/16/23 03:10	200
Methylene Chloride	100	U cn	100		ug/L			06/16/23 03:10	200
Styrene	100	U cn	100		ug/L			06/16/23 03:10	200
Tetrachloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
Toluene	100	U cn	100		ug/L			06/16/23 03:10	200
trans-1,2-Dichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
trans-1,3-Dichloropropene	100	U cn	100		ug/L			06/16/23 03:10	200
Trichloroethene	100	U cn	100		ug/L			06/16/23 03:10	200
Trichlorofluoromethane	100	U cn	100		ug/L			06/16/23 03:10	200
Vinyl chloride	100	U cn	100		ug/L			06/16/23 03:10	200
Xylenes, Total	200	U cn	200		ug/L			06/16/23 03:10	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*
Dibromofluoromethane (Surr)	*107*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*
4-Bromofluorobenzene (Surr)	*99*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*
Toluene-d8 (Surr)	*91*	*cn*	*80 - 120*		*06/16/23 03:10*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4,5-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4,6-Trichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dichlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dimethylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,4-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2,6-Dinitrotoluene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Chloronaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Chlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Methylnaphthalene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
2-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
3,3'-Dichlorobenzidine	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
3-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4,6-Dinitro-2-methylphenol	10	U cn	10		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Bromophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Chloro-3-methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Chloroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1

Client Sample ID: MHH-060623
Date Collected: 06/06/23 12:00
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Methylphenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Nitroaniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
4-Nitrophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Acenaphthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Acenaphthylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Acetophenone	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Aniline	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[a]anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[a]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[b]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[g,h,i]perylene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Benzo[k]fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
bis (2-chloroisopropyl) ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Bis(2-chloroethoxy)methane	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Bis(2-chloroethyl)ether	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Bis(2-ethylhexyl) phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Butyl benzyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Carbazole	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Chrysene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Dibenz(a,h)anthracene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Dibenzofuran	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Diethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Dimethyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Di-n-butyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Di-n-octyl phthalate	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Fluoranthene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Fluorene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachlorobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachlorobutadiene	2.1	U	2.1		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachlorocyclopentadiene	16	U	16		ug/L		06/12/23 07:37	06/13/23 00:08	1
Hexachloroethane	2.1	U	2.1		ug/L		06/12/23 07:37	06/13/23 00:08	1
Indeno[1,2,3-cd]pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Isophorone	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Naphthalene	2.1	U	2.1		ug/L		06/12/23 07:37	06/13/23 00:08	1
Nitrobenzene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
N-Nitrosodi-n-propylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
N-Nitrosodiphenylamine	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Pentachlorophenol	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Phenanthrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/13/23 00:08	1
Pyrene	5.2	U	5.2		ug/L		06/12/23 07:37	06/13/23 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 150*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
2-Fluorobiphenyl (Surr)	*54*		*32 - 115*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
2-Fluorophenol (Surr)	*39*		*10 - 83*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
Nitrobenzene-d5 (Surr)	*56*		*41 - 121*	*06/12/23 07:37*	*06/13/23 00:08*	*1*
Phenol-d5 (Surr)	*26*		*10 - 63*	*06/12/23 07:37*	*06/13/23 00:08*	*1*

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl-d14 (Surr)	*46*		*28 - 134*	*06/12/23 07:37*	*06/13/23 00:08*	*1*

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**28**		2.0		ug/L		06/14/23 08:40	06/21/23 08:56	1
Iron	**20000**		50		ug/L		06/14/23 08:40	06/21/23 08:56	1
Manganese	**3500**	**^2**	2.0		ug/L		06/14/23 08:40	06/21/23 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	**44**		6.0		mg/L			06/08/23 09:29	1

Client Sample ID: Trip blank
Lab Sample ID: 410-129603-8
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 20:12	1
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 20:12	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 20:12	1
Acetone	5.0	U	5.0		ug/L			06/14/23 20:12	1
Benzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 20:12	1
Bromomethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 20:12	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chloroethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 20:12	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Cyclohexane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: Trip blank
Lab Sample ID: 410-129603-8
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 20:12	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 20:12	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 20:12	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 20:12	1
Styrene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Toluene	0.50	U	0.50		ug/L			06/14/23 20:12	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 20:12	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 20:12	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 20:12	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/14/23 20:12*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/14/23 20:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/14/23 20:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/14/23 20:12*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-129603-1	MHA-060623	93	87	87	119
410-129603-1 - DL	MHA-060623	105	106	100	92
410-129603-2	MHB-060623	105	105	106	96
410-129603-2 - DL	MHB-060623	103 cn	106 cn	98 cn	91 cn
410-129603-3	MHC-060623	101	105	102	96
410-129603-3 - DL	MHC-060623	102 cn	106 cn	99 cn	92 cn
410-129603-4	MHD-060623	105	106	99	91
410-129603-5	MHF-060623	106	106	117	106
410-129603-5 - DL	MHF-060623	105 cn	106 cn	101 cn	93 cn
410-129603-6	MHG-060623	104	106	105	101
410-129603-6 - DL	MHG-060623	103	105	99	92
410-129603-7	MHH-060623	107 cn	107 cn	99 cn	91 cn
410-129603-8	Trip blank	105	102	99	99
LCS 410-386398/4	Lab Control Sample	100	91	93	113
LCS 410-386672/4	Lab Control Sample	100	101	100	99
LCS 410-387239/4	Lab Control Sample	102	107	99	92
LCSD 410-386398/5	Lab Control Sample Dup	103	91	94	113
MB 410-386398/8	Method Blank	97	89	89	113
MB 410-386672/6	Method Blank	103	101	100	99
MB 410-387239/6	Method Blank	104	106	100	91

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(10-150)	(32-115)	(10-83)	(41-121)	(10-63)	(28-134)
410-129603-1	MHA-060623	70	66	42	69	28	50
410-129603-2	MHB-060623	76	65	42	64	31	62
410-129603-2 - DL	MHB-060623	64	78	50	77	32	71
410-129603-3	MHC-060623	61 cn	69 cn	26 cn	4 S1- cn	24 cn	59 cn
410-129603-4	MHD-060623	73	67	43	64	29	59
410-129603-5	MHF-060623	62	58	29	66	21	49
410-129603-6	MHG-060623	80	67	47	71	31	56
410-129603-7	MHH-060623	69	54	39	56	26	46
LCS 410-385310/2-A	Lab Control Sample	94	68	54	75	39	69
LCSD 410-385310/3-A	Lab Control Sample Dup	79	55	39	58	30	75
MB 410-385310/1-A	Method Blank	85	73	58	80	40	95

Surrogate Legend

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

Surrogate Summary

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-386398/8
Matrix: Water
Analysis Batch: 386398

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	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 11:27	1
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 11:27	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 11:27	1
Acetone	5.0	U	5.0		ug/L			06/14/23 11:27	1
Benzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 11:27	1
Bromomethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 11:27	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chloroethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 11:27	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Cyclohexane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 11:27	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 11:27	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 11:27	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 11:27	1
Styrene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Toluene	0.50	U	0.50		ug/L			06/14/23 11:27	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 11:27	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 11:27	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 11:27	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 11:27	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-386398/8
Matrix: Water
Analysis Batch: 386398

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		06/14/23 11:27	1
Dibromofluoromethane (Surr)	89		80 - 120		06/14/23 11:27	1
4-Bromofluorobenzene (Surr)	89		80 - 120		06/14/23 11:27	1
Toluene-d8 (Surr)	113		80 - 120		06/14/23 11:27	1

Lab Sample ID: LCS 410-386398/4
Matrix: Water
Analysis Batch: 386398

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	5.00	4.35		ug/L		87	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.66		ug/L		113	75 - 123
1,1,2-Trichloroethane	5.00	5.42		ug/L		108	80 - 120
1,1-Dichloroethane	5.00	4.56		ug/L		91	74 - 120
1,1-Dichloroethene	5.00	4.85		ug/L		97	80 - 131
1,2,4-Trichlorobenzene	5.00	5.71		ug/L		114	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.78		ug/L		96	56 - 148
1,2-Dibromoethane	5.00	5.25		ug/L		105	80 - 120
1,2-Dichlorobenzene	5.00	5.58		ug/L		112	80 - 120
1,2-Dichloroethane	5.00	3.95		ug/L		79	69 - 122
1,2-Dichloropropane	5.00	4.70		ug/L		94	80 - 120
1,3-Dichlorobenzene	5.00	5.42		ug/L		108	80 - 120
1,4-Dichlorobenzene	5.00	5.79		ug/L		116	80 - 120
2-Butanone	62.5	68.4		ug/L		109	59 - 141
2-Hexanone	62.5	67.3		ug/L		108	52 - 140
4-Methyl-2-pentanone	62.5	65.7		ug/L		105	55 - 140
Acetone	62.5	68.3		ug/L		109	60 - 146
Benzene	5.00	4.76		ug/L		95	80 - 120
Bromodichloromethane	5.00	4.25		ug/L		85	73 - 124
Bromoform	5.00	4.96		ug/L		99	49 - 144
Bromomethane	5.00	3.76		ug/L		75	60 - 136
Carbon disulfide	5.00	4.85		ug/L		97	67 - 130
Carbon tetrachloride	5.00	4.45		ug/L		89	64 - 141
Chlorobenzene	5.00	5.29		ug/L		106	80 - 120
Chloroethane	5.00	3.86		ug/L		77	63 - 120
Chloroform	5.00	4.36		ug/L		87	80 - 120
Chloromethane	5.00	3.91		ug/L		78	56 - 124
cis-1,2-Dichloroethene	5.00	4.67		ug/L		93	80 - 122
cis-1,3-Dichloropropene	5.00	4.30		ug/L		86	67 - 121
Cyclohexane	5.00	4.88		ug/L		98	69 - 120
Dibromochloromethane	5.00	5.20		ug/L		104	64 - 138
Dichlorodifluoromethane	5.00	3.16		ug/L		63	43 - 123
Ethylbenzene	5.00	5.48		ug/L		110	80 - 120
Freon 113	5.00	4.44		ug/L		89	75 - 133
Isopropylbenzene	5.00	5.49		ug/L		110	80 - 120
Methyl acetate	5.00	5.64		ug/L		113	59 - 143
Methyl tertiary butyl ether	5.00	4.27		ug/L		85	69 - 120
Methylcyclohexane	5.00	4.59		ug/L		92	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-386398/4
Matrix: Water
Analysis Batch: 386398

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	5.00	4.68		ug/L		94	80 - 120
Styrene	5.00	5.34		ug/L		107	80 - 120
Tetrachloroethene	5.00	5.39		ug/L		108	80 - 120
Toluene	5.00	5.47		ug/L		109	80 - 120
trans-1,2-Dichloroethene	5.00	4.51		ug/L		90	80 - 122
trans-1,3-Dichloropropene	5.00	5.32		ug/L		106	61 - 129
Trichloroethene	5.00	4.31		ug/L		86	80 - 120
Trichlorofluoromethane	5.00	3.45		ug/L		69	62 - 136
Vinyl chloride	5.00	3.68		ug/L		74	60 - 125
Xylenes, Total	15.0	16.2		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 120*

Lab Sample ID: LCSD 410-386398/5
Matrix: Water
Analysis Batch: 386398

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
1,1,1-Trichloroethane	5.00	4.51		ug/L		90	78 - 126	4	30
1,1,2,2-Tetrachloroethane	5.00	5.71		ug/L		114	75 - 123	1	30
1,1,2-Trichloroethane	5.00	5.43		ug/L		109	80 - 120	0	30
1,1-Dichloroethane	5.00	4.70		ug/L		94	74 - 120	3	30
1,1-Dichloroethene	5.00	4.91		ug/L		98	80 - 131	1	30
1,2,4-Trichlorobenzene	5.00	5.90		ug/L		118	68 - 122	3	30
1,2-Dibromo-3-Chloropropane	5.00	4.83		ug/L		97	56 - 148	1	30
1,2-Dibromoethane	5.00	5.41		ug/L		108	80 - 120	3	30
1,2-Dichlorobenzene	5.00	5.60		ug/L		112	80 - 120	0	30
1,2-Dichloroethane	5.00	4.11		ug/L		82	69 - 122	4	30
1,2-Dichloropropane	5.00	4.87		ug/L		97	80 - 120	4	30
1,3-Dichlorobenzene	5.00	5.48		ug/L		110	80 - 120	1	30
1,4-Dichlorobenzene	5.00	5.68		ug/L		114	80 - 120	2	30
2-Butanone	62.5	66.9		ug/L		107	59 - 141	2	30
2-Hexanone	62.5	65.4		ug/L		105	52 - 140	3	30
4-Methyl-2-pentanone	62.5	66.1		ug/L		106	55 - 140	1	30
Acetone	62.5	67.2		ug/L		107	60 - 146	2	30
Benzene	5.00	4.91		ug/L		98	80 - 120	3	30
Bromodichloromethane	5.00	4.41		ug/L		88	73 - 124	4	30
Bromoform	5.00	5.12		ug/L		102	49 - 144	3	30
Bromomethane	5.00	3.91		ug/L		78	60 - 136	4	30
Carbon disulfide	5.00	4.97		ug/L		99	67 - 130	2	30
Carbon tetrachloride	5.00	4.58		ug/L		92	64 - 141	3	30
Chlorobenzene	5.00	5.37		ug/L		107	80 - 120	2	30
Chloroethane	5.00	3.99		ug/L		80	63 - 120	3	30
Chloroform	5.00	4.52		ug/L		90	80 - 120	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-386398/5
Matrix: Water
Analysis Batch: 386398

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
Chloromethane			5.00	4.08		ug/L		82	56 - 124	4	30
cis-1,2-Dichloroethene			5.00	4.82		ug/L		96	80 - 122	3	30
cis-1,3-Dichloropropene			5.00	4.46		ug/L		89	67 - 121	4	30
Cyclohexane			5.00	4.92		ug/L		98	69 - 120	1	30
Dibromochloromethane			5.00	5.35		ug/L		107	64 - 138	3	30
Dichlorodifluoromethane			5.00	3.23		ug/L		65	43 - 123	2	30
Ethylbenzene			5.00	5.63		ug/L		113	80 - 120	3	30
Freon 113			5.00	4.66		ug/L		93	75 - 133	5	30
Isopropylbenzene			5.00	5.62		ug/L		112	80 - 120	2	30
Methyl acetate			5.00	5.61		ug/L		112	59 - 143	0	30
Methyl tertiary butyl ether			5.00	4.42		ug/L		88	69 - 120	3	30
Methylcyclohexane			5.00	4.61		ug/L		92	80 - 120	0	30
Methylene Chloride			5.00	4.86		ug/L		97	80 - 120	4	30
Styrene			5.00	5.42		ug/L		108	80 - 120	1	30
Tetrachloroethene			5.00	5.54		ug/L		111	80 - 120	3	30
Toluene			5.00	5.68		ug/L		114	80 - 120	4	30
trans-1,2-Dichloroethene			5.00	4.70		ug/L		94	80 - 122	4	30
trans-1,3-Dichloropropene			5.00	5.40		ug/L		108	61 - 129	2	30
Trichloroethene			5.00	4.48		ug/L		90	80 - 120	4	30
Trichlorofluoromethane			5.00	3.42		ug/L		68	62 - 136	1	30
Vinyl chloride			5.00	3.84		ug/L		77	60 - 125	4	30
Xylenes, Total			15.0	16.7		ug/L		111	80 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*113*		*80 - 120*

Lab Sample ID: MB 410-386672/6
Matrix: Water
Analysis Batch: 386672

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	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
2-Butanone	5.0	U	5.0		ug/L			06/14/23 19:27	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-386672/6
Matrix: Water
Analysis Batch: 386672

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	5.0	U	5.0		ug/L			06/14/23 19:27	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/14/23 19:27	1
Acetone	5.0	U	5.0		ug/L			06/14/23 19:27	1
Benzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Bromoform	1.0	U	1.0		ug/L			06/14/23 19:27	1
Bromomethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Carbon disulfide	1.0	U	1.0		ug/L			06/14/23 19:27	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chlorobenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chloroethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chloroform	0.50	U	0.50		ug/L			06/14/23 19:27	1
Chloromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Cyclohexane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Ethylbenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Freon 113	0.50	U	0.50		ug/L			06/14/23 19:27	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Methyl acetate	1.0	U	1.0		ug/L			06/14/23 19:27	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/14/23 19:27	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Methylene Chloride	0.50	U	0.50		ug/L			06/14/23 19:27	1
Styrene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Toluene	0.50	U	0.50		ug/L			06/14/23 19:27	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Trichloroethene	0.50	U	0.50		ug/L			06/14/23 19:27	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/14/23 19:27	1
Vinyl chloride	0.50	U	0.50		ug/L			06/14/23 19:27	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 19:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/14/23 19:27*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/14/23 19:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/14/23 19:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/14/23 19:27*	*1*

Lab Sample ID: LCS 410-386672/4
Matrix: Water
Analysis Batch: 386672

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	5.00	4.95		ug/L		99	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.71		ug/L		94	75 - 123

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-386672/4
Matrix: Water
Analysis Batch: 386672

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	5.00	4.78		ug/L		96	80 - 120
1,1-Dichloroethane	5.00	4.74		ug/L		95	74 - 120
1,1-Dichloroethene	5.00	4.85		ug/L		97	80 - 131
1,2,4-Trichlorobenzene	5.00	5.02		ug/L		100	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.88		ug/L		98	56 - 148
1,2-Dibromoethane	5.00	4.93		ug/L		99	80 - 120
1,2-Dichlorobenzene	5.00	4.62		ug/L		92	80 - 120
1,2-Dichloroethane	5.00	4.84		ug/L		97	69 - 122
1,2-Dichloropropane	5.00	4.90		ug/L		98	80 - 120
1,3-Dichlorobenzene	5.00	4.67		ug/L		93	80 - 120
1,4-Dichlorobenzene	5.00	4.89		ug/L		98	80 - 120
2-Butanone	62.5	63.1		ug/L		101	59 - 141
2-Hexanone	62.5	59.8		ug/L		96	52 - 140
4-Methyl-2-pentanone	62.5	58.2		ug/L		93	55 - 140
Acetone	62.5	64.6		ug/L		103	60 - 146
Benzene	5.00	4.91		ug/L		98	80 - 120
Bromodichloromethane	5.00	4.88		ug/L		98	73 - 124
Bromoform	5.00	4.52		ug/L		90	49 - 144
Bromomethane	5.00	4.02		ug/L		80	60 - 136
Carbon disulfide	5.00	4.72		ug/L		94	67 - 130
Carbon tetrachloride	5.00	4.98		ug/L		100	64 - 141
Chlorobenzene	5.00	4.75		ug/L		95	80 - 120
Chloroethane	5.00	4.12		ug/L		82	63 - 120
Chloroform	5.00	4.83		ug/L		97	80 - 120
Chloromethane	5.00	3.90		ug/L		78	56 - 124
cis-1,2-Dichloroethene	5.00	4.90		ug/L		98	80 - 122
cis-1,3-Dichloropropene	5.00	4.76		ug/L		95	67 - 121
Cyclohexane	5.00	4.83		ug/L		97	69 - 120
Dibromochloromethane	5.00	4.81		ug/L		96	64 - 138
Dichlorodifluoromethane	5.00	3.36		ug/L		67	43 - 123
Ethylbenzene	5.00	4.81		ug/L		96	80 - 120
Freon 113	5.00	4.86		ug/L		97	75 - 133
Isopropylbenzene	5.00	4.96		ug/L		99	80 - 120
Methyl acetate	5.00	5.62		ug/L		112	59 - 143
Methyl tertiary butyl ether	5.00	4.78		ug/L		96	69 - 120
Methylcyclohexane	5.00	4.94		ug/L		99	80 - 120
Methylene Chloride	5.00	4.90		ug/L		98	80 - 120
Styrene	5.00	4.94		ug/L		99	80 - 120
Tetrachloroethene	5.00	4.79		ug/L		96	80 - 120
Toluene	5.00	4.77		ug/L		95	80 - 120
trans-1,2-Dichloroethene	5.00	4.73		ug/L		95	80 - 122
trans-1,3-Dichloropropene	5.00	4.82		ug/L		96	61 - 129
Trichloroethene	5.00	4.76		ug/L		95	80 - 120
Trichlorofluoromethane	5.00	4.02		ug/L		80	62 - 136
Vinyl chloride	5.00	3.76		ug/L		75	60 - 125
Xylenes, Total	15.0	14.7		ug/L		98	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-386672/4
Matrix: Water
Analysis Batch: 386672

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 410-387239/6
Matrix: Water
Analysis Batch: 387239

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	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1,2-Trichloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,1-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2,4-Trichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dibromo-3-Chloropropane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dibromoethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dichloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,2-Dichloropropane	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,3-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
1,4-Dichlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
2-Butanone	5.0	U	5.0		ug/L			06/15/23 19:01	1
2-Hexanone	5.0	U	5.0		ug/L			06/15/23 19:01	1
4-Methyl-2-pentanone	5.0	U	5.0		ug/L			06/15/23 19:01	1
Acetone	5.0	U	5.0		ug/L			06/15/23 19:01	1
Benzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Bromodichloromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Bromoform	1.0	U	1.0		ug/L			06/15/23 19:01	1
Bromomethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Carbon disulfide	1.0	U	1.0		ug/L			06/15/23 19:01	1
Carbon tetrachloride	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chlorobenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chloroethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chloroform	0.50	U	0.50		ug/L			06/15/23 19:01	1
Chloromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
cis-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
cis-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Cyclohexane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Dibromochloromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Dichlorodifluoromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Ethylbenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Freon 113	0.50	U	0.50		ug/L			06/15/23 19:01	1
Isopropylbenzene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Methyl acetate	1.0	U	1.0		ug/L			06/15/23 19:01	1
Methyl tertiary butyl ether	0.50	U	0.50		ug/L			06/15/23 19:01	1
Methylcyclohexane	0.50	U	0.50		ug/L			06/15/23 19:01	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-387239/6
Matrix: Water
Analysis Batch: 387239

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.50	U	0.50		ug/L			06/15/23 19:01	1
Styrene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Tetrachloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Toluene	0.50	U	0.50		ug/L			06/15/23 19:01	1
trans-1,2-Dichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
trans-1,3-Dichloropropene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Trichloroethene	0.50	U	0.50		ug/L			06/15/23 19:01	1
Trichlorofluoromethane	0.50	U	0.50		ug/L			06/15/23 19:01	1
Vinyl chloride	0.50	U	0.50		ug/L			06/15/23 19:01	1
Xylenes, Total	1.0	U	1.0		ug/L			06/15/23 19:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/15/23 19:01*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/15/23 19:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/15/23 19:01*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*06/15/23 19:01*	*1*

Lab Sample ID: LCS 410-387239/4
Matrix: Water
Analysis Batch: 387239

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	5.00	5.85		ug/L		117	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.71		ug/L		94	75 - 123
1,1,2-Trichloroethane	5.00	5.05		ug/L		101	80 - 120
1,1-Dichloroethane	5.00	5.48		ug/L		110	74 - 120
1,1-Dichloroethene	5.00	5.85		ug/L		117	80 - 131
1,2,4-Trichlorobenzene	5.00	5.38		ug/L		108	68 - 122
1,2-Dibromo-3-Chloropropane	5.00	4.91		ug/L		98	56 - 148
1,2-Dibromoethane	5.00	5.21		ug/L		104	80 - 120
1,2-Dichlorobenzene	5.00	5.05		ug/L		101	80 - 120
1,2-Dichloroethane	5.00	5.65		ug/L		113	69 - 122
1,2-Dichloropropane	5.00	5.45		ug/L		109	80 - 120
1,3-Dichlorobenzene	5.00	5.06		ug/L		101	80 - 120
1,4-Dichlorobenzene	5.00	5.40		ug/L		108	80 - 120
2-Butanone	62.5	52.6		ug/L		84	59 - 141
2-Hexanone	62.5	52.1		ug/L		83	52 - 140
4-Methyl-2-pentanone	62.5	50.4		ug/L		81	55 - 140
Acetone	62.5	55.9		ug/L		89	60 - 146
Benzene	5.00	5.83		ug/L		117	80 - 120
Bromodichloromethane	5.00	5.51		ug/L		110	73 - 124
Bromoform	5.00	4.21		ug/L		84	49 - 144
Bromomethane	5.00	4.58		ug/L		92	60 - 136
Carbon disulfide	5.00	5.38		ug/L		108	67 - 130
Carbon tetrachloride	5.00	5.86		ug/L		117	64 - 141
Chlorobenzene	5.00	5.09		ug/L		102	80 - 120
Chloroethane	5.00	4.38		ug/L		88	63 - 120
Chloroform	5.00	5.61		ug/L		112	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-387239/4
Matrix: Water
Analysis Batch: 387239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	5.00	3.73		ug/L		75	56 - 124
cis-1,2-Dichloroethene	5.00	5.98		ug/L		120	80 - 122
cis-1,3-Dichloropropene	5.00	5.53		ug/L		111	67 - 121
Cyclohexane	5.00	5.52		ug/L		110	69 - 120
Dibromochloromethane	5.00	4.72		ug/L		94	64 - 138
Dichlorodifluoromethane	5.00	3.83		ug/L		77	43 - 123
Ethylbenzene	5.00	5.15		ug/L		103	80 - 120
Freon 113	5.00	6.05		ug/L		121	75 - 133
Isopropylbenzene	5.00	5.25		ug/L		105	80 - 120
Methyl acetate	5.00	4.45		ug/L		89	59 - 143
Methyl tertiary butyl ether	5.00	5.62		ug/L		112	69 - 120
Methylcyclohexane	5.00	5.97		ug/L		119	80 - 120
Methylene Chloride	5.00	5.78		ug/L		116	80 - 120
Styrene	5.00	5.22		ug/L		104	80 - 120
Tetrachloroethene	5.00	5.25		ug/L		105	80 - 120
Toluene	5.00	5.13		ug/L		103	80 - 120
trans-1,2-Dichloroethene	5.00	5.77		ug/L		115	80 - 122
trans-1,3-Dichloropropene	5.00	4.96		ug/L		99	61 - 129
Trichloroethene	5.00	5.71		ug/L		114	80 - 120
Trichlorofluoromethane	5.00	4.20		ug/L		84	62 - 136
Vinyl chloride	5.00	4.04		ug/L		81	60 - 125
Xylenes, Total	15.0	15.6		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*

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

Lab Sample ID: MB 410-385310/1-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4,5-Trichlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4,6-Trichlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dichlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dimethylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dinitrophenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,4-Dinitrotoluene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2,6-Dinitrotoluene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Chloronaphthalene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Chlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Methylnaphthalene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Methylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
2-Nitroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1

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

Lab Sample ID: MB 410-385310/1-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
3,3'-Dichlorobenzidine	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
3-Nitroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4,6-Dinitro-2-methylphenol	10	U	10		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Bromophenyl phenyl ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Chloro-3-methylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Chloroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Chlorophenyl phenyl ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Methylphenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Nitroaniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
4-Nitrophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Acenaphthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Acenaphthylene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Acetophenone	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Aniline	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Anthracene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[a]anthracene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[a]pyrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[b]fluoranthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[g,h,i]perylene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Benzo[k]fluoranthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
bis (2-chloroisopropyl) ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Bis(2-chloroethoxy)methane	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Bis(2-chloroethyl)ether	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Butyl benzyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Carbazole	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Chrysene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Dibenz(a,h)anthracene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Dibenzofuran	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Diethyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Dimethyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Di-n-butyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Di-n-octyl phthalate	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Fluoranthene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Fluorene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachlorobenzene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachlorobutadiene	2.0	U	2.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachlorocyclopentadiene	15	U	15		ug/L		06/12/23 07:37	06/12/23 17:21	1
Hexachloroethane	2.0	U	2.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Indeno[1,2,3-cd]pyrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Isophorone	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Naphthalene	2.0	U	2.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Nitrobenzene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
N-Nitrosodi-n-propylamine	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
N-Nitrosodiphenylamine	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Pentachlorophenol	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Phenanthrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1
Phenol	1.0	U	1.0		ug/L		06/12/23 07:37	06/12/23 17:21	1

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

Lab Sample ID: MB 410-385310/1-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385310

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	5.0	U	5.0		ug/L		06/12/23 07:37	06/12/23 17:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
2-Fluorobiphenyl (Surr)	*73*		*32 - 115*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
2-Fluorophenol (Surr)	*58*		*10 - 83*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
Nitrobenzene-d5 (Surr)	*80*		*41 - 121*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
Phenol-d5 (Surr)	*40*		*10 - 63*	*06/12/23 07:37*	*06/12/23 17:21*	*1*
p-Terphenyl-d14 (Surr)	*95*		*28 - 134*	*06/12/23 07:37*	*06/12/23 17:21*	*1*

Lab Sample ID: LCS 410-385310/2-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	44.3		ug/L		89	60 - 119
2,4,5-Trichlorophenol	50.0	49.2		ug/L		98	69 - 133
2,4,6-Trichlorophenol	50.0	47.4		ug/L		95	37 - 144
2,4-Dichlorophenol	50.0	43.8		ug/L		88	39 - 135
2,4-Dimethylphenol	50.0	44.9		ug/L		90	32 - 120
2,4-Dinitrophenol	100	113		ug/L		113	10 - 191
2,4-Dinitrotoluene	50.0	55.3		ug/L		111	39 - 139
2,6-Dinitrotoluene	50.0	50.0		ug/L		100	50 - 158
2-Chloronaphthalene	50.0	40.0		ug/L		80	60 - 120
2-Chlorophenol	50.0	44.5		ug/L		89	23 - 134
2-Methylnaphthalene	50.0	40.9		ug/L		82	50 - 114
2-Methylphenol	50.0	44.6		ug/L		89	52 - 113
2-Nitroaniline	50.0	55.6		ug/L		111	60 - 125
2-Nitrophenol	50.0	58.3		ug/L		117	29 - 182
3,3'-Dichlorobenzidine	100	41.0		ug/L		41	10 - 200
3-Nitroaniline	50.0	47.5		ug/L		95	36 - 147
4,6-Dinitro-2-methylphenol	100	166		ug/L		166	10 - 181
4-Bromophenyl phenyl ether	50.0	47.1		ug/L		94	53 - 127
4-Chloro-3-methylphenol	50.0	45.5		ug/L		91	22 - 147
4-Chloroaniline	50.0	37.3		ug/L		75	33 - 109
4-Chlorophenyl phenyl ether	50.0	43.8		ug/L		88	25 - 158
4-Methylphenol	50.0	33.1		ug/L		66	47 - 96
4-Nitroaniline	50.0	48.4		ug/L		97	36 - 150
4-Nitrophenol	100	53.2		ug/L		53	10 - 132
Acenaphthene	50.0	44.6		ug/L		89	47 - 145
Acenaphthylene	50.0	41.9		ug/L		84	33 - 145
Acetophenone	50.0	46.4		ug/L		93	55 - 122
Aniline	50.0	32.0		ug/L		64	21 - 106
Anthracene	50.0	47.5		ug/L		95	27 - 133
Benzo[a]anthracene	50.0	43.6		ug/L		87	33 - 143
Benzo[a]pyrene	50.0	40.0		ug/L		80	17 - 163
Benzo[b]fluoranthene	50.0	36.6		ug/L		73	24 - 159
Benzo[g,h,i]perylene	50.0	44.0		ug/L		88	10 - 200

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

Lab Sample ID: LCS 410-385310/2-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[k]fluoranthene	50.0	44.2		ug/L		88	11 - 162
bis (2-chloroisopropyl) ether	50.0	35.9		ug/L		72	48 - 110
Bis(2-chloroethoxy)methane	50.0	42.9		ug/L		86	33 - 184
Bis(2-chloroethyl)ether	50.0	45.4		ug/L		91	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	47.4		ug/L		95	10 - 158
Butyl benzyl phthalate	50.0	46.4		ug/L		93	10 - 152
Carbazole	50.0	44.3		ug/L		89	62 - 127
Chrysene	50.0	44.9		ug/L		90	17 - 168
Dibenz(a,h)anthracene	50.0	42.8		ug/L		86	10 - 200
Dibenzofuran	50.0	45.7		ug/L		91	60 - 126
Diethyl phthalate	50.0	43.7		ug/L		87	10 - 120
Dimethyl phthalate	50.0	34.1		ug/L		68	10 - 120
Di-n-butyl phthalate	50.0	42.9		ug/L		86	10 - 120
Di-n-octyl phthalate	50.0	52.4		ug/L		105	10 - 146
Fluoranthene	50.0	40.6		ug/L		81	26 - 137
Fluorene	50.0	47.3		ug/L		95	59 - 121
Hexachlorobenzene	50.0	42.5		ug/L		85	10 - 152
Hexachlorobutadiene	50.0	25.3		ug/L		51	24 - 120
Hexachlorocyclopentadiene	50.0	13.0	J	ug/L		26	10 - 87
Hexachloroethane	50.0	30.5		ug/L		61	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	43.6		ug/L		87	10 - 171
Isophorone	50.0	44.0		ug/L		88	21 - 196
Naphthalene	50.0	42.0		ug/L		84	21 - 133
Nitrobenzene	50.0	43.0		ug/L		86	35 - 180
N-Nitrosodi-n-propylamine	50.0	42.4		ug/L		85	10 - 200
N-Nitrosodiphenylamine	42.5	40.6		ug/L		95	63 - 127
Pentachlorophenol	100	72.0		ug/L		72	14 - 176
Phenanthrene	50.0	47.4		ug/L		95	54 - 120
Phenol	50.0	23.8		ug/L		48	10 - 120
Pyrene	50.0	46.5		ug/L		93	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*94*		*10 - 150*
2-Fluorobiphenyl (Surr)	*68*		*32 - 115*
2-Fluorophenol (Surr)	*54*		*10 - 83*
Nitrobenzene-d5 (Surr)	*75*		*41 - 121*
Phenol-d5 (Surr)	*39*		*10 - 63*
p-Terphenyl-d14 (Surr)	*69*		*28 - 134*

Lab Sample ID: LCSD 410-385310/3-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385310

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	50.0	37.3		ug/L		75	60 - 119	17	30
2,4,5-Trichlorophenol	50.0	43.1		ug/L		86	69 - 133	13	30
2,4,6-Trichlorophenol	50.0	41.6		ug/L		83	37 - 144	13	30
2,4-Dichlorophenol	50.0	36.7		ug/L		73	39 - 135	18	30

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

Lab Sample ID: LCSD 410-385310/3-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385310

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dimethylphenol	50.0	37.4		ug/L		75	32 - 120	18	30
2,4-Dinitrophenol	100	118		ug/L		118	10 - 191	5	30
2,4-Dinitrotoluene	50.0	48.1		ug/L		96	39 - 139	14	30
2,6-Dinitrotoluene	50.0	41.2		ug/L		82	50 - 158	19	30
2-Chloronaphthalene	50.0	34.2		ug/L		68	60 - 120	16	24
2-Chlorophenol	50.0	33.4		ug/L		67	23 - 134	28	30
2-Methylnaphthalene	50.0	32.7		ug/L		65	50 - 114	22	30
2-Methylphenol	50.0	34.6		ug/L		69	52 - 113	25	30
2-Nitroaniline	50.0	47.2		ug/L		94	60 - 125	16	30
2-Nitrophenol	50.0	47.1		ug/L		94	29 - 182	21	30
3,3'-Dichlorobenzidine	100	36.2		ug/L		36	10 - 200	13	30
3-Nitroaniline	50.0	43.1		ug/L		86	36 - 147	10	30
4,6-Dinitro-2-methylphenol	100	146		ug/L		146	10 - 181	13	30
4-Bromophenyl phenyl ether	50.0	39.9		ug/L		80	53 - 127	17	30
4-Chloro-3-methylphenol	50.0	38.4		ug/L		77	22 - 147	17	30
4-Chloroaniline	50.0	32.3		ug/L		65	33 - 109	14	30
4-Chlorophenyl phenyl ether	50.0	37.7		ug/L		75	25 - 158	15	30
4-Methylphenol	50.0	28.0		ug/L		56	47 - 96	16	30
4-Nitroaniline	50.0	41.1		ug/L		82	36 - 150	16	30
4-Nitrophenol	100	51.3		ug/L		51	10 - 132	4	30
Acenaphthene	50.0	38.1		ug/L		76	47 - 145	16	30
Acenaphthylene	50.0	34.9		ug/L		70	33 - 145	18	30
Acetophenone	50.0	36.8		ug/L		74	55 - 122	23	30
Aniline	50.0	26.1		ug/L		52	21 - 106	20	30
Anthracene	50.0	41.0		ug/L		82	27 - 133	15	30
Benzo[a]anthracene	50.0	40.2		ug/L		80	33 - 143	8	30
Benzo[a]pyrene	50.0	41.0		ug/L		82	17 - 163	2	30
Benzo[b]fluoranthene	50.0	35.3		ug/L		71	24 - 159	3	30
Benzo[g,h,i]perylene	50.0	46.9		ug/L		94	10 - 200	6	30
Benzo[k]fluoranthene	50.0	43.8		ug/L		88	11 - 162	1	30
bis (2-chloroisopropyl) ether	50.0	27.5		ug/L		55	48 - 110	26	30
Bis(2-chloroethoxy)methane	50.0	35.9		ug/L		72	33 - 184	18	30
Bis(2-chloroethyl)ether	50.0	34.0		ug/L		68	12 - 158	29	30
Bis(2-ethylhexyl) phthalate	50.0	45.2		ug/L		90	10 - 158	5	30
Butyl benzyl phthalate	50.0	38.2		ug/L		76	10 - 152	19	30
Carbazole	50.0	38.7		ug/L		77	62 - 127	13	30
Chrysene	50.0	43.4		ug/L		87	17 - 168	3	30
Dibenz(a,h)anthracene	50.0	46.9		ug/L		94	10 - 200	9	30
Dibenzofuran	50.0	38.8		ug/L		78	60 - 126	16	30
Diethyl phthalate	50.0	36.9		ug/L		74	10 - 120	17	30
Dimethyl phthalate	50.0	24.2	*1	ug/L		48	10 - 120	34	30
Di-n-butyl phthalate	50.0	36.9		ug/L		74	10 - 120	15	30
Di-n-octyl phthalate	50.0	49.5		ug/L		99	10 - 146	6	30
Fluoranthene	50.0	36.0		ug/L		72	26 - 137	12	30
Fluorene	50.0	40.4		ug/L		81	59 - 121	16	30
Hexachlorobenzene	50.0	37.2		ug/L		74	10 - 152	13	30
Hexachlorobutadiene	50.0	18.0	*1	ug/L		36	24 - 120	34	30
Hexachlorocyclopentadiene	50.0	8.95	J *1	ug/L		18	10 - 87	37	30
Hexachloroethane	50.0	21.3	*1	ug/L		43	40 - 120	35	30

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

Lab Sample ID: LCSD 410-385310/3-A
Matrix: Water
Analysis Batch: 385552

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385310

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene			50.0	45.5		ug/L		91	10 - 171	4	30
Isophorone			50.0	35.9		ug/L		72	21 - 196	20	30
Naphthalene			50.0	33.2		ug/L		66	21 - 133	23	30
Nitrobenzene			50.0	34.9		ug/L		70	35 - 180	21	30
N-Nitrosodi-n-propylamine			50.0	33.5		ug/L		67	10 - 200	23	30
N-Nitrosodiphenylamine			42.5	34.2		ug/L		80	63 - 127	17	30
Pentachlorophenol			100	76.3		ug/L		76	14 - 176	6	30
Phenanthrene			50.0	41.0		ug/L		82	54 - 120	15	30
Phenol			50.0	18.5		ug/L		37	10 - 120	25	30
Pyrene			50.0	40.1		ug/L		80	52 - 120	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 150*
2-Fluorobiphenyl (Surr)	*55*		*32 - 115*
2-Fluorophenol (Surr)	*39*		*10 - 83*
Nitrobenzene-d5 (Surr)	*58*		*41 - 121*
Phenol-d5 (Surr)	*30*		*10 - 63*
p-Terphenyl-d14 (Surr)	*75*		*28 - 134*

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-386406/1-A
Matrix: Water
Analysis Batch: 389156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386406

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0		ug/L		06/14/23 08:40	06/21/23 08:36	1
Iron	50	U	50		ug/L		06/14/23 08:40	06/21/23 08:36	1
Manganese	2.0	U	2.0		ug/L		06/14/23 08:40	06/21/23 08:36	1

Lab Sample ID: LCS 410-386406/2-A
Matrix: Water
Analysis Batch: 389156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386406

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			500	499		ug/L		100	85 - 115		
Iron			5000	4960		ug/L		99	85 - 115		
Manganese			500	502		ug/L		100	85 - 115		

Lab Sample ID: 410-129603-3 MS
Matrix: Water
Analysis Batch: 389156

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	94		500	606		ug/L		102	70 - 130		

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-129603-3 MS
Matrix: Water
Analysis Batch: 389188

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	83000		5000	82100	4	ug/L		-14	70 - 130
Manganese	4600		500	4560	4	ug/L		-0.5	70 - 130

Lab Sample ID: 410-129603-3 DU
Matrix: Water
Analysis Batch: 389156

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	94		101		ug/L		8	20

Lab Sample ID: 410-129603-3 DU
Matrix: Water
Analysis Batch: 389188

Client Sample ID: MHC-060623
Prep Type: Total/NA
Prep Batch: 386406

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	83000		65700	F3	ug/L		23	20
Manganese	4600		3340	F3	ug/L		31	20

Method: 2540D-2015 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 410-384231/1
Matrix: Water
Analysis Batch: 384231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	3.0	U	3.0		mg/L			06/08/23 09:29	1

Lab Sample ID: LCS 410-384231/2
Matrix: Water
Analysis Batch: 384231

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	151	146		mg/L		97	89 - 105

Lab Sample ID: 410-129603-3 DU
Matrix: Water
Analysis Batch: 384231

Client Sample ID: MHC-060623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	610		594		mg/L		2	5

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

GC/MS VOA

Analysis Batch: 386398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	8260D	
MB 410-386398/8	Method Blank	Total/NA	Water	8260D	
LCS 410-386398/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-386398/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 386672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-8	Trip blank	Total/NA	Water	8260D	
MB 410-386672/6	Method Blank	Total/NA	Water	8260D	
LCS 410-386672/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 387239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1 - DL	MHA-060623	Total/NA	Water	8260D	
410-129603-2	MHB-060623	Total/NA	Water	8260D	
410-129603-2 - DL	MHB-060623	Total/NA	Water	8260D	
410-129603-3	MHC-060623	Total/NA	Water	8260D	
410-129603-3 - DL	MHC-060623	Total/NA	Water	8260D	
410-129603-4	MHD-060623	Total/NA	Water	8260D	
410-129603-5	MHF-060623	Total/NA	Water	8260D	
410-129603-5 - DL	MHF-060623	Total/NA	Water	8260D	
410-129603-6	MHG-060623	Total/NA	Water	8260D	
410-129603-6 - DL	MHG-060623	Total/NA	Water	8260D	
410-129603-7	MHH-060623	Total/NA	Water	8260D	
MB 410-387239/6	Method Blank	Total/NA	Water	8260D	
LCS 410-387239/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 385310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	625.1	
410-129603-2	MHB-060623	Total/NA	Water	625.1	
410-129603-2 - DL	MHB-060623	Total/NA	Water	625.1	
410-129603-3	MHC-060623	Total/NA	Water	625.1	
410-129603-4	MHD-060623	Total/NA	Water	625.1	
410-129603-5	MHF-060623	Total/NA	Water	625.1	
410-129603-6	MHG-060623	Total/NA	Water	625.1	
410-129603-7	MHH-060623	Total/NA	Water	625.1	
MB 410-385310/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-385310/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 410-385310/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 385552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	625.1	385310
410-129603-2	MHB-060623	Total/NA	Water	625.1	385310
410-129603-3	MHC-060623	Total/NA	Water	625.1	385310
410-129603-4	MHD-060623	Total/NA	Water	625.1	385310
410-129603-5	MHF-060623	Total/NA	Water	625.1	385310
410-129603-6	MHG-060623	Total/NA	Water	625.1	385310

GC/MS Semi VOA (Continued)

Analysis Batch: 385552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-7	MHH-060623	Total/NA	Water	625.1	385310
MB 410-385310/1-A	Method Blank	Total/NA	Water	625.1	385310
LCS 410-385310/2-A	Lab Control Sample	Total/NA	Water	625.1	385310
LCSD 410-385310/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	385310

Analysis Batch: 386180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-2 - DL	MHB-060623	Total/NA	Water	625.1	385310

Metals

Prep Batch: 386406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-2	MHB-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-3	MHC-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-4	MHD-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-5	MHF-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-6	MHG-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-7	MHH-060623	Total/NA	Water	200.8 Rev 5.4	
MB 410-386406/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	
LCS 410-386406/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	
410-129603-3 MS	MHC-060623	Total/NA	Water	200.8 Rev 5.4	
410-129603-3 DU	MHC-060623	Total/NA	Water	200.8 Rev 5.4	

Analysis Batch: 389156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-2	MHB-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-4	MHD-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-5	MHF-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-6	MHG-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-7	MHH-060623	Total/NA	Water	200.8 Rev 5.4	386406
MB 410-386406/1-A	Method Blank	Total/NA	Water	200.8 Rev 5.4	386406
LCS 410-386406/2-A	Lab Control Sample	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 MS	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 DU	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406

Analysis Batch: 389188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-5	MHF-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-6	MHG-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 MS	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406
410-129603-3 DU	MHC-060623	Total/NA	Water	200.8 Rev 5.4	386406

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

General Chemistry

Analysis Batch: 384231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129603-1	MHA-060623	Total/NA	Water	2540D-2015	
410-129603-2	MHB-060623	Total/NA	Water	2540D-2015	
410-129603-3	MHC-060623	Total/NA	Water	2540D-2015	
410-129603-4	MHD-060623	Total/NA	Water	2540D-2015	
410-129603-5	MHF-060623	Total/NA	Water	2540D-2015	
410-129603-6	MHG-060623	Total/NA	Water	2540D-2015	
410-129603-7	MHH-060623	Total/NA	Water	2540D-2015	
MB 410-384231/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-384231/2	Lab Control Sample	Total/NA	Water	2540D-2015	
410-129603-3 DU	MHC-060623	Total/NA	Water	2540D-2015	

Lab Chronicle

Client: On-Site Health and Safety
Project/Site: Wellsville OU2 - Annual Manholes

Job ID: 410-129603-1

Client Sample ID: MHA-060623
Date Collected: 06/06/23 10:30
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386398	DVW2	ELLE	06/14/23 15:13
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 01:48
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 21:46
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:44
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:05
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHB-060623
Date Collected: 06/06/23 10:45
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/15/23 23:46
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 00:07
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 22:07
Total/NA	Prep	625.1	DL		385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1	DL	50	386180	SJ89	ELLE	06/14/23 00:56
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:07
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHC-060623
Date Collected: 06/06/23 11:00
Date Received: 06/07/23 09:55

Lab Sample ID: 410-129603-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/16/23 00:27
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 00:47
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		10	385552	SJ89	ELLE	06/12/23 22:28
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:30
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 08:40
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHD-060623
Lab Sample ID: 410-129603-4
Date Collected: 06/06/23 11:15
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/15/23 23:26
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 23:05
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:03
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHF-060623
Lab Sample ID: 410-129603-5
Date Collected: 06/06/23 11:30
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387239	JS6E	ELLE	06/16/23 01:07
Total/NA	Analysis	8260D	DL	10	387239	JS6E	ELLE	06/16/23 01:28
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 23:26
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:42
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 09:00
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHG-060623
Lab Sample ID: 410-129603-6
Date Collected: 06/06/23 11:45
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	387239	JS6E	ELLE	06/16/23 02:29
Total/NA	Analysis	8260D	DL	20	387239	JS6E	ELLE	06/16/23 02:49
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/12/23 23:47
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		10	389188	F7JF	ELLE	06/21/23 11:40
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 08:58
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	387239	JS6E	ELLE	06/16/23 03:10

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Client Sample ID: MHH-060623
Lab Sample ID: 410-129603-7
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	625.1			385310	QKX3	ELLE	06/12/23 07:37
Total/NA	Analysis	625.1		1	385552	SJ89	ELLE	06/13/23 00:08
Total/NA	Prep	200.8 Rev 5.4			386406	UAMX	ELLE	06/14/23 08:40
Total/NA	Analysis	200.8 Rev 5.4		1	389156	F7JF	ELLE	06/21/23 08:56
Total/NA	Analysis	2540D-2015		1	384231	M98K	ELLE	06/08/23 09:29 - 06/09/23 05:05 [1]

Client Sample ID: Trip blank
Lab Sample ID: 410-129603-8
Date Collected: 06/06/23 12:00
Matrix: Water
Date Received: 06/07/23 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386672	JS6E	ELLE	06/14/23 20:12

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

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
625.1	625.1	Water	1,1'-Biphenyl
625.1	625.1	Water	2-Nitroaniline
625.1	625.1	Water	3-Nitroaniline
625.1	625.1	Water	4-Chloroaniline
625.1	625.1	Water	4-Nitroaniline
625.1	625.1	Water	Dibenzofuran

Method Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
2540D-2015	Solids, Total Suspended (TSS)	SM	ELLE
200.8 Rev 5.4	Preparation, Total Metals	EPA	ELLE
5030C	Purge and Trap	SW846	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-129603-1
Project/Site: Wellsville OU2 - Annual Manholes

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-129603-1	MHA-060623	Water	06/06/23 10:30	06/07/23 09:55
410-129603-2	MHB-060623	Water	06/06/23 10:45	06/07/23 09:55
410-129603-3	MHC-060623	Water	06/06/23 11:00	06/07/23 09:55
410-129603-4	MHD-060623	Water	06/06/23 11:15	06/07/23 09:55
410-129603-5	MHF-060623	Water	06/06/23 11:30	06/07/23 09:55
410-129603-6	MHG-060623	Water	06/06/23 11:45	06/07/23 09:55
410-129603-7	MHH-060623	Water	06/06/23 12:00	06/07/23 09:55
410-129603-8	Trip blank	Water	06/06/23 12:00	06/07/23 09:55

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program Lal

410-129603 Chain of Custody

Page _____ of _____

BP/ARC Project Name: Wellsville OU2 - Annual Manholes
BP/ARC Facility No: USEPA ID: NY-D98053215

Standard Rush TAT: Yes ___ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order 89766	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___
BP/ARC EBM: James Schaeffer		
EBM Phone: 281-800-7868		
EBM Email: jim.schaeffer@bp.com		

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	Matrix	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: VOCs 8260 TCL List (HCL)	SVOCs 625 TCL List (NP)	Metals- As, Fe, Mn (HN03)	TSS (NP)	Comments
	MHA-060623	6/6/2023	1030		X			7	3		1	3			3	2	1	1	pH= 6.45
	MHB-060623	6/6/2023	1045		X			7	3		1	3			3	2	1	1	pH= 6.71
	MHC-060623	6/6/2023	1100		X			7	3		1	3			3	2	1	1	pH= 6.60
	MHD-060623	6/6/2023	1115		X			7	3		1	3			3	2	1	1	pH= 6.62
	MHF-060623	6/6/2023	1130		X			7	3		1	3			3	2	1	1	pH= 6.68
	MHG-060623	6/6/2023	1145		X			7	3		1	3			3	2	1	1	pH = 6.74
	MHH-060623	6/6/2023	1200		X			7	3		1	3			3	2	1	1	pH= 6.70
	Trip blank	6/6/2023	1200		X			2				2			2				
	Temp blank	6/6/2023						1											

Report Type & QC Level: Standard X; Full Data Package

Comments: Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Scott Watson	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Scott Watson / On-Site	6/6/23	1400			
Shipment Method: FedEx Ship Date: 6/6/2023						
Shipment Tracking No: 772362829418, 772362828569					6/7/23	9:55

Special Instructions: pH value in comment area, measured in field

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: Rec 0.3 / Cor 0.3 F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Rec 1.7 / Cor 1.7

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-129603-1

Login Number: 129603
List Number: 1
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 386398 Batch Start Date: 06/14/23 08:46 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-386398/4		8260D		25 mL	25 mL				2692
LCSD 410-386398/5		8260D		25 mL	25 mL				2692
MB 410-386398/8		8260D		25 mL	25 mL				2692
410-129603-E-1	MHA-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00006	MSV_HP25_ISSS 00072	MSV_LCS_VOC#1 00113	MSV_QC_Gas826 00144		
LCS 410-386398/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL		
LCSD 410-386398/5		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL		
MB 410-386398/8		8260D			1 uL				
410-129603-E-1	MHA-060623	8260D	T		1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 386672 Batch Start Date: 06/14/23 17:46 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-386672/4		8260D		25 mL	25 mL				2692
MB 410-386672/6		8260D		25 mL	25 mL				2692
410-129603-B-8	Trip blank	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_29_826ISS 00047	MSV_LCS_VOC#1 00113	MSV_QC_Gas826 00144			
LCS 410-386672/4		8260D		1 uL	12.5 uL	12.5 uL			
MB 410-386672/6		8260D		1 uL					
410-129603-B-8	Trip blank	8260D	T	1 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 387239 Batch Start Date: 06/15/23 17:27 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-387239/4		8260D		25 mL	25 mL				2692
MB 410-387239/6		8260D		25 mL	25 mL				2692
410-129603-F-4	MHD-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-F-2	MHB-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-G-2	MHB-060623	8260D	T	25 mL	25 mL	<2 SU	N	Y	2692
410-129603-F-3	MHC-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-G-3	MHC-060623	8260D	T	25 mL	25 mL	<2 SU	N	Y	2692
410-129603-F-5	MHF-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-129603-G-5	MHF-060623	8260D	T	25 mL	25 mL	<2 SU	N	Y	2692
410-129603-F-1	MHA-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692
410-129603-F-6	MHG-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692
410-129603-F-6	MHG-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692
410-129603-F-7	MHH-060623	8260D	T	25 mL	25 mL	<2 SU	N	N	2692

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00113	MSV_LLcentISS 00007	MSV_QC_Gas826 00144	AnalysisComment		
LCS 410-387239/4		8260D		12.5 uL	5 uL	12.5 uL			
MB 410-387239/6		8260D			5 uL				
410-129603-F-4	MHD-060623	8260D	T		5 uL				
410-129603-F-2	MHB-060623	8260D	T		5 uL				
410-129603-G-2	MHB-060623	8260D	T		5 uL		1511		
410-129603-F-3	MHC-060623	8260D	T		5 uL				
410-129603-G-3	MHC-060623	8260D	T		5 uL		1511		
410-129603-F-5	MHF-060623	8260D	T		5 uL				
410-129603-G-5	MHF-060623	8260D	T		5 uL		1511		
410-129603-F-1	MHA-060623	8260D	T		5 uL				
410-129603-F-6	MHG-060623	8260D	T		5 uL				
410-129603-F-6	MHG-060623	8260D	T		5 uL				
410-129603-F-7	MHH-060623	8260D	T		5 uL		2708		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 387239 Batch Start Date: 06/15/23 17:27 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 385310 Batch Start Date: 06/12/23 07:37 Batch Analyst: Hall, Patrick

Batch Method: 625.1 Batch End Date: 06/12/23 14:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-385310/1		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCS 410-385310/2		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
LCSD 410-385310/3		625.1, 625.1				250 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-1	MHA-060623	625.1, 625.1	T	406.91 g	169.50 g	237.4 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-2	MHB-060623	625.1, 625.1	T	408.26 g	167.78 g	240.5 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-3	MHC-060623	625.1, 625.1	T	411.74 g	166.60 g	245.1 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-4	MHD-060623	625.1, 625.1	T	405.53 g	166.43 g	239.1 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-5	MHF-060623	625.1, 625.1	T	407.96 g	169.78 g	238.2 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-6	MHG-060623	625.1, 625.1	T	407.85 g	167.83 g	240 mL	1.0 mL	n/a SU	>11 SU
410-129603-B-7	MHH-060623	625.1, 625.1	T	407.29 g	166.14 g	241.2 mL	1.0 mL	n/a SU	>11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	pHChk2HrExt	OP_625_SS 00014	OP_MINLCS1_MS 00170	AnalysisComment	
MB 410-385310/1		625.1, 625.1		<2 SU	n/a SU	0.25 mL		Tap H2O	
LCS 410-385310/2		625.1, 625.1		<2 SU	n/a SU	0.25 mL	1 mL	Tap H2O	
LCSD 410-385310/3		625.1, 625.1		<2 SU	n/a SU	0.25 mL	1 mL	Tap H2O	
410-129603-B-1	MHA-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Pale Yellow Tint, Orange Sediment	
410-129603-B-2	MHB-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Orange Cloudy, Orange Sediment	
410-129603-B-3	MHC-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Yellow Cloudy, Orange Sediment	
410-129603-B-4	MHD-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Yellow Cloudy, Orange Sediment	
410-129603-B-5	MHF-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Pale Yellow Tint	
410-129603-B-6	MHG-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Orange Cloudy	
410-129603-B-7	MHH-060623	625.1, 625.1	T	<2 SU	n/a SU	0.25 mL		Orange Cloudy	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 385310 Batch Start Date: 06/12/23 07:37 Batch Analyst: Hall, Patrick

Batch Method: 625.1 Batch End Date: 06/12/23 14:08

Batch Notes	
Method/Fraction	625_Prep_LVI
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, AGC40572, KMK81424
Analyst ID - Spike Analyst	PDH91662, AGC40572, KMK81424
Analyst ID - Spike Witness Analyst	PDH91662, AGC40572
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90
Extraction 1 Start Time	06/12/2023 08:33
Extraction 1 End Time	06/12/2023 09:48
Na2SO4 ID	23158A
Analyst ID - Concentration	PDH91662, AGC40572, KMK81424
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 386406 Batch Start Date: 06/14/23 21:00 Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 Batch End Date: 06/15/23 01:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00028	MP_1:1HNO3 00042	MT_LCS-SPK-A 00026	MT_LCS-SPK-B 00025
MB 410-386406/1		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL		
LCS 410-386406/2		200.8 Rev 5.4, 200.8 Rev 5.4		50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-129603-H-3	MHC-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-J-3 DU	MHC-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-I-3 MS	MHC-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL	0.2 mL	0.2 mL
410-129603-H-7	MHH-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-6	MHG-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-5	MHF-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-4	MHD-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-1	MHA-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		
410-129603-H-2	MHB-060623	200.8 Rev 5.4, 200.8 Rev 5.4	T	50 mL	50 mL	0.5 mL	1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 386406 Batch Start Date: 06/14/23 21:00 Batch Analyst: Kuhns, Annamaria M

Batch Method: 200.8 Rev 5.4 Batch End Date: 06/15/23 01:30

Batch Notes	
Uncorrected Temperature	85 Celsius
Hot Block ID	10
Digestion Tube/Cup ID	2211204
Thermometer ID	3811
Pipette ID	g20054g
Analyst ID - Spike Witness Analyst	0862
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 384231 Batch Start Date: 06/08/23 06:51 Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 Batch End Date: 06/09/23 05:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
MB 410-384231/1		2540D-2015		hXL0Y	0.1124 g	1000 mL	0.1123 g	-0.0001 g	1000 mL
LCS 410-384231/2		2540D-2015		hXL0Z	0.1145 g	1000 mL	0.2600 g	0.1455 g	1000 mL
410-129603-D-3	MHC-060623	2540D-2015	T	hXL10	0.1168 g	100 mL	0.1775 g	0.0607 g	1000 mL
410-129603-D-3 DU	MHC-060623	2540D-2015	T	hXL11	0.1162 g	100 mL	0.1756 g	0.0594 g	1000 mL
410-129603-D-2	MHB-060623	2540D-2015	T	hXL4Z	0.1153 g	500 mL	0.1370 g	0.0217 g	1000 mL
410-129603-D-1	MHA-060623	2540D-2015	T	hXL50	0.1160 g	550 mL	0.1242 g	0.0082 g	1000 mL
410-129603-D-4	MHD-060623	2540D-2015	T	hXL52	0.1119 g	400 mL	0.1347 g	0.0228 g	1000 mL
410-129603-D-5	MHF-060623	2540D-2015	T	hXL53	0.1149 g	500 mL	0.1302 g	0.0153 g	1000 mL
410-129603-D-7	MHH-060623	2540D-2015	T	hXL54	0.1137 g	500 mL	0.1359 g	0.0222 g	1000 mL
410-129603-D-6	MHG-060623	2540D-2015	T	hXL55	0.1144 g	550 mL	0.1275 g	0.0131 g	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight	WC_TSS_LCS 00043	AnalysisComment		
MB 410-384231/1		2540D-2015		0.1123 g	0.1124 g				
LCS 410-384231/2		2540D-2015		0.26 g	0.1145 g	0.1505 g	vial 22 0.1505		
410-129603-D-3	MHC-060623	2540D-2015	T	0.1775 g	0.1168 g		30+30+40 slow,cloudy,small particles		
410-129603-D-3 DU	MHC-060623	2540D-2015	T	0.1756 g	0.1162 g				
410-129603-D-2	MHB-060623	2540D-2015	T	0.137 g	0.1153 g		100+100+100+100+100 slow,cloudy		
410-129603-D-1	MHA-060623	2540D-2015	T	0.1242 g	0.116 g		100+100+100+100+100+50 slow,cloudy		
410-129603-D-4	MHD-060623	2540D-2015	T	0.1347 g	0.1119 g		100+100+100+100 slow,cloudy		
410-129603-D-5	MHF-060623	2540D-2015	T	0.1302 g	0.1149 g		200+100+100+100 slow,cloudy		
410-129603-D-7	MHH-060623	2540D-2015	T	0.1359 g	0.1137 g		200+200+100 slow,cloudy		
410-129603-D-6	MHG-060623	2540D-2015	T	0.1275 g	0.1144 g		100+100+100+100+100+50 slow,cloudy		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-129603-1

SDG No.:

Batch Number: 384231 Batch Start Date: 06/08/23 06:51 Batch Analyst: Sanchez, Alexa S

Batch Method: 2540D-2015 Batch End Date: 06/09/23 05:05

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	1000 mL
Filter ID	600040-3109-r2
Balance ID	27505
Oven ID	7492
Thermometer ID	1052
Date/Time - In	06/08/2023 09:29
Temperature - Start - Uncorrected	104 Celsius
Temperature - Start - Corrected	104 Celsius
Date/Time - Out	06/09/2023 05:05
Temperature - End - Uncorrected	104 Celsius
Temperature - End - Corrected	104 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 6/16/2023 11:39:00 AM

JOB DESCRIPTION

Wellsville OU2 - Annual Groundwater

JOB NUMBER

410-129732-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

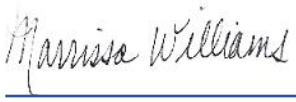
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

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: 410-129732-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-129732-1

Receipt
The samples were received on 6/8/2023 10:10 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 0.5°C

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

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

GC/MS Semi VOA
Method 8270E: Surrogate recovery for the following sample was outside of acceptance limits: MW55R-0623 (410-129732-5[MSD]). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Client Sample ID: MW78-0623 — Lab Sample ID: 410-129732-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	10		1.0		ug/L	1		8260D	Total/NA
Benzene	6.3		1.0		ug/L	1		8260D	Total/NA
Vinyl chloride	3.3		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: DUP1-0623 — Lab Sample ID: 410-129732-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.3		1.0		ug/L	1		8260D	Total/NA
Benzene	6.8		1.0		ug/L	1		8260D	Total/NA
Vinyl chloride	3.1		1.0		ug/L	1		8260D	Total/NA

Client Sample ID: OW4-0623 — Lab Sample ID: 410-129732-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	4.5		1.0		ug/L	1		8260D	Total/NA
Aniline - DL	570		51		ug/L	10		8270E	Total/NA
Nitrobenzene - DL2	3900		200		ug/L	100		8270E	Total/NA

Client Sample ID: MW71-0623 — Lab Sample ID: 410-129732-4

No Detections.

Client Sample ID: MW55R-0623 — Lab Sample ID: 410-129732-5

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 410-129732-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW78-0623
Lab Sample ID: 410-129732-1

Date Collected: 06/06/23 14:00
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**10**		1.0		ug/L			06/14/23 02:45	1
Benzene	**6.3**		1.0		ug/L			06/14/23 02:45	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 02:45	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 02:45	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 02:45	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 02:45	1
Toluene	1.0	U	1.0		ug/L			06/14/23 02:45	1
Vinyl chloride	**3.3**		1.0		ug/L			06/14/23 02:45	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*06/14/23 02:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*06/14/23 02:45*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/14/23 02:45*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/14/23 02:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Acenaphthene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Aniline	5.1	U	5.1		ug/L		06/12/23 15:37	06/13/23 04:58	1
Fluorene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Naphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1
Nitrobenzene	2.0	U	2.0		ug/L		06/12/23 15:37	06/13/23 04:58	1
Phenanthrene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*13 - 138*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
2-Fluorobiphenyl (Surr)	*79*		*44 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
Nitrobenzene-d5 (Surr)	*74*		*31 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/12/23 15:37*	*06/13/23 04:58*	*1*
p-Terphenyl-d14 (Surr)	*50*		*30 - 125*	*06/12/23 15:37*	*06/13/23 04:58*	*1*

Client Sample ID: DUP1-0623
Lab Sample ID: 410-129732-2

Date Collected: 06/06/23 14:05
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**9.3**		1.0		ug/L			06/14/23 02:25	1
Benzene	**6.8**		1.0		ug/L			06/14/23 02:25	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 02:25	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 02:25	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 02:25	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 02:25	1
Toluene	1.0	U	1.0		ug/L			06/14/23 02:25	1
Vinyl chloride	**3.1**		1.0		ug/L			06/14/23 02:25	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 02:25	1

Client Sample ID: DUP1-0623
Lab Sample ID: 410-129732-2

Date Collected: 06/06/23 14:05
Matrix: Water
Date Received: 06/08/23 10:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/14/23 02:25*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/14/23 02:25*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/14/23 02:25*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/14/23 02:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Acenaphthene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Aniline	5.1	U	5.1		ug/L		06/12/23 15:37	06/13/23 05:20	1
Fluorene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Naphthalene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1
Nitrobenzene	2.0	U	2.0		ug/L		06/12/23 15:37	06/13/23 05:20	1
Phenanthrene	0.51	U	0.51		ug/L		06/12/23 15:37	06/13/23 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*13 - 138*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
Nitrobenzene-d5 (Surr)	*76*		*31 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
Phenol-d5 (Surr)	*38*		*10 - 120*	*06/12/23 15:37*	*06/13/23 05:20*	*1*
p-Terphenyl-d14 (Surr)	*56*		*30 - 125*	*06/12/23 15:37*	*06/13/23 05:20*	*1*

Client Sample ID: OW4-0623
Lab Sample ID: 410-129732-3

Date Collected: 06/07/23 09:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 02:06	1
Benzene	1.0	U	1.0		ug/L			06/14/23 02:06	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 02:06	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 02:06	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 02:06	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 02:06	1
Toluene	**4.5**		1.0		ug/L			06/14/23 02:06	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 02:06	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/14/23 02:06*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/14/23 02:06*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/14/23 02:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/14/23 02:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1
Acenaphthene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1
Fluorene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1
Naphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1

Client Sample ID: OW4-0623
Lab Sample ID: 410-129732-3

Date Collected: 06/07/23 09:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*13 - 138*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
2-Fluorobiphenyl (Surr)	*85*		*44 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
Nitrobenzene-d5 (Surr)	*72*		*31 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/13/23 15:34*	*06/14/23 02:06*	*1*
p-Terphenyl-d14 (Surr)	*54*		*30 - 125*	*06/13/23 15:34*	*06/14/23 02:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	**570**		51		ug/L		06/13/23 15:34	06/15/23 03:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*13 - 138*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
Nitrobenzene-d5 (Surr)	*74*		*31 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/13/23 15:34*	*06/15/23 03:13*	*10*
p-Terphenyl-d14 (Surr)	*53*		*30 - 125*	*06/13/23 15:34*	*06/15/23 03:13*	*10*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	**3900**		200		ug/L		06/13/23 15:34	06/15/23 13:16	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*13 - 138*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
2-Fluorobiphenyl (Surr)	*67*		*44 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
2-Fluorophenol (Surr)	*41*		*10 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
Nitrobenzene-d5 (Surr)	*76*		*31 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
Phenol-d5 (Surr)	*25*		*10 - 120*	*06/13/23 15:34*	*06/15/23 13:16*	*100*
p-Terphenyl-d14 (Surr)	*50*		*30 - 125*	*06/13/23 15:34*	*06/15/23 13:16*	*100*

Client Sample ID: MW71-0623
Lab Sample ID: 410-129732-4

Date Collected: 06/07/23 11:15
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 01:46	1
Benzene	1.0	U	1.0		ug/L			06/14/23 01:46	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 01:46	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 01:46	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 01:46	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 01:46	1
Toluene	1.0	U	1.0		ug/L			06/14/23 01:46	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 01:46	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 01:46	1

Client Sample ID: MW71-0623
Lab Sample ID: 410-129732-4

Date Collected: 06/07/23 11:15
Matrix: Water
Date Received: 06/08/23 10:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/14/23 01:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/14/23 01:46*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/14/23 01:46*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/14/23 01:46*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Acenaphthene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Aniline	5.1	U	5.1		ug/L		06/13/23 15:34	06/13/23 23:51	1
Fluorene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Naphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1
Nitrobenzene	2.0	U	2.0		ug/L		06/13/23 15:34	06/13/23 23:51	1
Phenanthrene	0.51	U	0.51		ug/L		06/13/23 15:34	06/13/23 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*13 - 138*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
2-Fluorobiphenyl (Surr)	*87*		*44 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
Nitrobenzene-d5 (Surr)	*74*		*31 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
Phenol-d5 (Surr)	*29*		*10 - 120*	*06/13/23 15:34*	*06/13/23 23:51*	*1*
p-Terphenyl-d14 (Surr)	*57*		*30 - 125*	*06/13/23 15:34*	*06/13/23 23:51*	*1*

Client Sample ID: MW55R-0623
Lab Sample ID: 410-129732-5

Date Collected: 06/07/23 13:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 00:46	1
Benzene	1.0	U	1.0		ug/L			06/14/23 00:46	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 00:46	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 00:46	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 00:46	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 00:46	1
Toluene	1.0	U	1.0		ug/L			06/14/23 00:46	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 00:46	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*06/14/23 00:46*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/14/23 00:46*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/14/23 00:46*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/14/23 00:46*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1
Acenaphthene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1
Aniline	5.1	U F2 F1	5.1		ug/L		06/13/23 15:34	06/14/23 00:10	1
Fluorene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1

Client Sample ID: MW55R-0623
Lab Sample ID: 410-129732-5

Date Collected: 06/07/23 13:20
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1
Nitrobenzene	2.0	U	2.0		ug/L		06/13/23 15:34	06/14/23 00:10	1
Phenanthrene	0.51	U	0.51		ug/L		06/13/23 15:34	06/14/23 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*13 - 138*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
2-Fluorobiphenyl (Surr)	*81*		*44 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
Nitrobenzene-d5 (Surr)	*70*		*31 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
Phenol-d5 (Surr)	*24*		*10 - 120*	*06/13/23 15:34*	*06/14/23 00:10*	*1*
p-Terphenyl-d14 (Surr)	*50*		*30 - 125*	*06/13/23 15:34*	*06/14/23 00:10*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 410-129732-6

Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/08/23 10:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/14/23 00:26	1
Benzene	1.0	U	1.0		ug/L			06/14/23 00:26	1
Chloroethane	1.0	U	1.0		ug/L			06/14/23 00:26	1
Ethylbenzene	1.0	U	1.0		ug/L			06/14/23 00:26	1
m&p-Xylene	5.0	U	5.0		ug/L			06/14/23 00:26	1
o-Xylene	1.0	U	1.0		ug/L			06/14/23 00:26	1
Toluene	1.0	U	1.0		ug/L			06/14/23 00:26	1
Vinyl chloride	1.0	U	1.0		ug/L			06/14/23 00:26	1
Xylenes, Total	1.0	U	1.0		ug/L			06/14/23 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*06/14/23 00:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/14/23 00:26*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/14/23 00:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/14/23 00:26*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-129732-1	MW78-0623	102	99	107	106
410-129732-2	DUP1-0623	104	98	106	104
410-129732-3	OW4-0623	104	94	103	102
410-129732-4	MW71-0623	104	98	102	102
410-129732-5	MW55R-0623	99	100	109	104
410-129732-5 MS	MW55R-0623	102	99	102	105
410-129732-5 MSD	MW55R-0623	102	100	102	104
410-129732-6	Trip Blank	107	96	103	102
LCS 410-386130/5	Lab Control Sample	102	98	102	104
MB 410-386130/9	Method Blank	104	96	105	102

Surrogate Legend

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

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(13-138)	(44-120)	(10-120)	(31-120)	(10-120)	(30-125)
410-129732-1	MW78-0623	83	79	45	74	29	50
410-129732-2	DUP1-0623	88	84	53	76	38	56
410-129732-3	OW4-0623	81	85	44	72	29	54
410-129732-3 - DL	OW4-0623	70	84	43	74	29	53
410-129732-3 - DL2	OW4-0623	60	67	41	76	25	50
410-129732-4	MW71-0623	76	87	45	74	29	57
410-129732-5	MW55R-0623	72	81	36	70	24	50
410-129732-5 MS	MW55R-0623	63	83	38	69	26	67
410-129732-5 MSD	MW55R-0623	52 cn	79 cn	11 cn	72 cn	5 S1- cn	79 cn
LCS 410-385564/2-A	Lab Control Sample	88	91	59	77	42	97
LCS 410-386093/2-A	Lab Control Sample	71	77	49	66	34	89
LCSD 410-385564/3-A	Lab Control Sample Dup	69	82	41	73	28	84
MB 410-385564/1-A	Method Blank	97	91	44	71	28	97
MB 410-386093/1-A	Method Blank	76	84	50	73	32	94

Surrogate Legend

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

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-386130/9
Matrix: Water
Analysis Batch: 386130

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/13/23 21:09	1
Benzene	1.0	U	1.0		ug/L			06/13/23 21:09	1
Chloroethane	1.0	U	1.0		ug/L			06/13/23 21:09	1
Ethylbenzene	1.0	U	1.0		ug/L			06/13/23 21:09	1
m&p-Xylene	5.0	U	5.0		ug/L			06/13/23 21:09	1
o-Xylene	1.0	U	1.0		ug/L			06/13/23 21:09	1
Toluene	1.0	U	1.0		ug/L			06/13/23 21:09	1
Vinyl chloride	1.0	U	1.0		ug/L			06/13/23 21:09	1
Xylenes, Total	1.0	U	1.0		ug/L			06/13/23 21:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/13/23 21:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/13/23 21:09*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*06/13/23 21:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/13/23 21:09*	*1*

Lab Sample ID: LCS 410-386130/5
Matrix: Water
Analysis Batch: 386130

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	21.1		ug/L		106	80 - 120
Benzene	20.0	20.0		ug/L		100	80 - 120
Chloroethane	20.0	21.7		ug/L		109	55 - 123
Ethylbenzene	20.0	19.1		ug/L		96	80 - 120
m&p-Xylene	40.0	38.8		ug/L		97	80 - 120
o-Xylene	20.0	19.4		ug/L		97	80 - 120
Toluene	20.0	18.6		ug/L		93	80 - 120
Vinyl chloride	20.0	20.6		ug/L		103	56 - 120
Xylenes, Total	60.0	58.2		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386130

Client Sample ID: MW55R-0623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	1.0	U	20.0	22.4		ug/L		112	80 - 120
Benzene	1.0	U	20.0	21.7		ug/L		106	80 - 120
Chloroethane	1.0	U	20.0	24.0		ug/L		120	55 - 123
Ethylbenzene	1.0	U	20.0	20.8		ug/L		104	80 - 120
m&p-Xylene	5.0	U	40.0	41.4		ug/L		103	80 - 120
o-Xylene	1.0	U	20.0	20.7		ug/L		104	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386130

Client Sample ID: MW55R-0623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	1.0	U	20.0	20.4		ug/L		102	80 - 120
Vinyl chloride	1.0	U	20.0	23.3		ug/L		117	56 - 120
Xylenes, Total	1.0	U	60.0	62.1		ug/L		104	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 410-129732-5 MSD
Matrix: Water
Analysis Batch: 386130

Client Sample ID: MW55R-0623
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	1.0	U	20.0	22.3		ug/L		111	80 - 120	1	30
Benzene	1.0	U	20.0	21.9		ug/L		107	80 - 120	1	30
Chloroethane	1.0	U	20.0	23.6		ug/L		118	55 - 123	2	30
Ethylbenzene	1.0	U	20.0	20.8		ug/L		104	80 - 120	0	30
m&p-Xylene	5.0	U	40.0	41.6		ug/L		104	80 - 120	1	30
o-Xylene	1.0	U	20.0	20.2		ug/L		101	80 - 120	3	30
Toluene	1.0	U	20.0	20.2		ug/L		101	80 - 120	1	30
Vinyl chloride	1.0	U	20.0	22.9		ug/L		115	56 - 120	2	30
Xylenes, Total	1.0	U	60.0	61.8		ug/L		103	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-385564/1-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Acenaphthene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Aniline	5.0	U	5.0		ug/L		06/12/23 15:37	06/12/23 21:33	1
Fluorene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Naphthalene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1
Nitrobenzene	2.0	U	2.0		ug/L		06/12/23 15:37	06/12/23 21:33	1
Phenanthrene	0.50	U	0.50		ug/L		06/12/23 15:37	06/12/23 21:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*13 - 138*	*06/12/23 15:37*	*06/12/23 21:33*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-385564/1-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385564

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	91		44 - 120	06/12/23 15:37	06/12/23 21:33	1
2-Fluorophenol (Surr)	44		10 - 120	06/12/23 15:37	06/12/23 21:33	1
Nitrobenzene-d5 (Surr)	71		31 - 120	06/12/23 15:37	06/12/23 21:33	1
Phenol-d5 (Surr)	28		10 - 120	06/12/23 15:37	06/12/23 21:33	1
p-Terphenyl-d14 (Surr)	97		30 - 125	06/12/23 15:37	06/12/23 21:33	1

Lab Sample ID: LCS 410-385564/2-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	48.9		ug/L		98	53 - 120
Acenaphthene	50.0	47.5		ug/L		95	59 - 120
Aniline	50.0	30.5		ug/L		61	37 - 120
Fluorene	50.0	48.2		ug/L		96	66 - 120
Naphthalene	50.0	48.7		ug/L		97	55 - 120
Nitrobenzene	50.0	42.1		ug/L		84	59 - 120
Phenanthrene	50.0	49.8		ug/L		100	66 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		13 - 138
2-Fluorobiphenyl (Surr)	91		44 - 120
2-Fluorophenol (Surr)	59		10 - 120
Nitrobenzene-d5 (Surr)	77		31 - 120
Phenol-d5 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	97		30 - 125

Lab Sample ID: LCSD 410-385564/3-A
Matrix: Water
Analysis Batch: 385692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 385564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	50.0	43.5		ug/L		87	53 - 120	12	30
Acenaphthene	50.0	47.1		ug/L		94	59 - 120	1	30
Aniline	50.0	25.8		ug/L		52	37 - 120	17	30
Fluorene	50.0	47.4		ug/L		95	66 - 120	2	30
Naphthalene	50.0	43.0		ug/L		86	55 - 120	12	30
Nitrobenzene	50.0	41.8		ug/L		84	59 - 120	1	30
Phenanthrene	50.0	48.9		ug/L		98	66 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	69		13 - 138
2-Fluorobiphenyl (Surr)	82		44 - 120
2-Fluorophenol (Surr)	41		10 - 120
Nitrobenzene-d5 (Surr)	73		31 - 120
Phenol-d5 (Surr)	28		10 - 120
p-Terphenyl-d14 (Surr)	84		30 - 125

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-386093/1-A
Matrix: Water
Analysis Batch: 386218

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Acenaphthene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Aniline	5.0	U	5.0		ug/L		06/13/23 15:34	06/13/23 22:34	1
Fluorene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Naphthalene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1
Nitrobenzene	2.0	U	2.0		ug/L		06/13/23 15:34	06/13/23 22:34	1
Phenanthrene	0.50	U	0.50		ug/L		06/13/23 15:34	06/13/23 22:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*13 - 138*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
2-Fluorobiphenyl (Surr)	*84*		*44 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
Nitrobenzene-d5 (Surr)	*73*		*31 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
Phenol-d5 (Surr)	*32*		*10 - 120*	*06/13/23 15:34*	*06/13/23 22:34*	*1*
p-Terphenyl-d14 (Surr)	*94*		*30 - 125*	*06/13/23 15:34*	*06/13/23 22:34*	*1*

Lab Sample ID: LCS 410-386093/2-A
Matrix: Water
Analysis Batch: 386218

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	50.0	43.8		ug/L		88	53 - 120
Acenaphthene	50.0	42.3		ug/L		85	59 - 120
Aniline	50.0	26.3		ug/L		53	37 - 120
Fluorene	50.0	43.1		ug/L		86	66 - 120
Naphthalene	50.0	41.2		ug/L		82	55 - 120
Nitrobenzene	50.0	38.6		ug/L		77	59 - 120
Phenanthrene	50.0	45.7		ug/L		91	66 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*71*		*13 - 138*
2-Fluorobiphenyl (Surr)	*77*		*44 - 120*
2-Fluorophenol (Surr)	*49*		*10 - 120*
Nitrobenzene-d5 (Surr)	*66*		*31 - 120*
Phenol-d5 (Surr)	*34*		*10 - 120*
p-Terphenyl-d14 (Surr)	*89*		*30 - 125*

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386218

Client Sample ID: MW55R-0623
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	0.51	U	50.6	48.2		ug/L		94	53 - 120
Acenaphthene	0.51	U	50.6	47.4		ug/L		93	59 - 120
Aniline	5.1	U F2 F1	50.6	18.0	F1	ug/L		36	37 - 120
Fluorene	0.51	U	50.6	48.1		ug/L		94	66 - 120
Naphthalene	0.51	U	50.6	46.2		ug/L		91	55 - 120
Nitrobenzene	2.0	U	50.6	43.8		ug/L		86	59 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-129732-5 MS
Matrix: Water
Analysis Batch: 386218

Client Sample ID: MW55R-0623
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	0.51	U	50.6	48.4		ug/L		96	66 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*63*		*13 - 138*
2-Fluorobiphenyl (Surr)	*83*		*44 - 120*
2-Fluorophenol (Surr)	*38*		*10 - 120*
Nitrobenzene-d5 (Surr)	*69*		*31 - 120*
Phenol-d5 (Surr)	*26*		*10 - 120*
p-Terphenyl-d14 (Surr)	*67*		*30 - 125*

Lab Sample ID: 410-129732-5 MSD
Matrix: Water
Analysis Batch: 386218

Client Sample ID: MW55R-0623
Prep Type: Total/NA
Prep Batch: 386093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	0.51	U	50.5	48.7	cn	ug/L		95	53 - 120	1	30
Acenaphthene	0.51	U	50.5	44.9	cn	ug/L		88	59 - 120	5	30
Aniline	5.1	U F2 F1	50.5	11.1	F2 F1 cn	ug/L		22	37 - 120	47	30
Fluorene	0.51	U	50.5	45.5	cn	ug/L		89	66 - 120	6	30
Naphthalene	0.51	U	50.5	44.9	cn	ug/L		88	55 - 120	3	30
Nitrobenzene	2.0	U	50.5	42.6	cn	ug/L		84	59 - 120	3	30
Phenanthrene	0.51	U	50.5	47.4	cn	ug/L		94	66 - 120	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*52*	*cn*	*13 - 138*
2-Fluorobiphenyl (Surr)	*79*	*cn*	*44 - 120*
2-Fluorophenol (Surr)	*11*	*cn*	*10 - 120*
Nitrobenzene-d5 (Surr)	*72*	*cn*	*31 - 120*
Phenol-d5 (Surr)	*5*	*S1- cn*	*10 - 120*
p-Terphenyl-d14 (Surr)	*79*	*cn*	*30 - 125*

GC/MS VOA

Analysis Batch: 386130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-1	MW78-0623	Total/NA	Water	8260D	
410-129732-2	DUP1-0623	Total/NA	Water	8260D	
410-129732-3	OW4-0623	Total/NA	Water	8260D	
410-129732-4	MW71-0623	Total/NA	Water	8260D	
410-129732-5	MW55R-0623	Total/NA	Water	8260D	
410-129732-6	Trip Blank	Total/NA	Water	8260D	
MB 410-386130/9	Method Blank	Total/NA	Water	8260D	
LCS 410-386130/5	Lab Control Sample	Total/NA	Water	8260D	
410-129732-5 MS	MW55R-0623	Total/NA	Water	8260D	
410-129732-5 MSD	MW55R-0623	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 385564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-1	MW78-0623	Total/NA	Water	3510C	
410-129732-2	DUP1-0623	Total/NA	Water	3510C	
MB 410-385564/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-385564/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-385564/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 385692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-1	MW78-0623	Total/NA	Water	8270E	385564
410-129732-2	DUP1-0623	Total/NA	Water	8270E	385564
MB 410-385564/1-A	Method Blank	Total/NA	Water	8270E	385564
LCS 410-385564/2-A	Lab Control Sample	Total/NA	Water	8270E	385564
LCSD 410-385564/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	385564

Prep Batch: 386093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3 - DL2	OW4-0623	Total/NA	Water	3510C	
410-129732-3	OW4-0623	Total/NA	Water	3510C	
410-129732-3 - DL	OW4-0623	Total/NA	Water	3510C	
410-129732-4	MW71-0623	Total/NA	Water	3510C	
410-129732-5	MW55R-0623	Total/NA	Water	3510C	
MB 410-386093/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-386093/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-129732-5 MS	MW55R-0623	Total/NA	Water	3510C	
410-129732-5 MSD	MW55R-0623	Total/NA	Water	3510C	

Analysis Batch: 386218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3	OW4-0623	Total/NA	Water	8270E	386093
410-129732-4	MW71-0623	Total/NA	Water	8270E	386093
410-129732-5	MW55R-0623	Total/NA	Water	8270E	386093
MB 410-386093/1-A	Method Blank	Total/NA	Water	8270E	386093
LCS 410-386093/2-A	Lab Control Sample	Total/NA	Water	8270E	386093
410-129732-5 MS	MW55R-0623	Total/NA	Water	8270E	386093
410-129732-5 MSD	MW55R-0623	Total/NA	Water	8270E	386093

QC Association Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

GC/MS Semi VOA

Analysis Batch: 386718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3 - DL	OW4-0623	Total/NA	Water	8270E	386093

Analysis Batch: 387036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-129732-3 - DL2	OW4-0623	Total/NA	Water	8270E	386093

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Client Sample ID: MW78-0623
Lab Sample ID: 410-129732-1
Date Collected: 06/06/23 14:00
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 02:45
Total/NA	Prep	3510C			385564	T9CY	ELLE	06/12/23 15:37
Total/NA	Analysis	8270E		1	385692	AH7C	ELLE	06/13/23 04:58

Client Sample ID: DUP1-0623
Lab Sample ID: 410-129732-2
Date Collected: 06/06/23 14:05
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 02:25
Total/NA	Prep	3510C			385564	T9CY	ELLE	06/12/23 15:37
Total/NA	Analysis	8270E		1	385692	AH7C	ELLE	06/13/23 05:20

Client Sample ID: OW4-0623
Lab Sample ID: 410-129732-3
Date Collected: 06/07/23 09:20
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 02:06
Total/NA	Prep	3510C	DL2		386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E	DL2	100	387036	GLQ9	ELLE	06/15/23 13:16
Total/NA	Prep	3510C			386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E		1	386218	AH7C	ELLE	06/14/23 02:06
Total/NA	Prep	3510C	DL		386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E	DL	10	386718	AH7C	ELLE	06/15/23 03:13

Client Sample ID: MW71-0623
Lab Sample ID: 410-129732-4
Date Collected: 06/07/23 11:15
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 01:46
Total/NA	Prep	3510C			386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E		1	386218	AH7C	ELLE	06/13/23 23:51

Client Sample ID: MW55R-0623
Lab Sample ID: 410-129732-5
Date Collected: 06/07/23 13:20
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 00:46
Total/NA	Prep	3510C			386093	T9CY	ELLE	06/13/23 15:34
Total/NA	Analysis	8270E		1	386218	AH7C	ELLE	06/14/23 00:10

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Client Sample ID: Trip Blank
Lab Sample ID: 410-129732-6
Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/08/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386130	Y6ZN	ELLE	06/14/23 00:26

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-129732-1
Project/Site: Wellsville OU2 - Annual Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-129732-1	MW78-0623	Water	06/06/23 14:00	06/08/23 10:10
410-129732-2	DUP1-0623	Water	06/06/23 14:05	06/08/23 10:10
410-129732-3	OW4-0623	Water	06/07/23 09:20	06/08/23 10:10
410-129732-4	MW71-0623	Water	06/07/23 11:15	06/08/23 10:10
410-129732-5	MW55R-0623	Water	06/07/23 13:20	06/08/23 10:10
410-129732-6	Trip Blank	Water	06/07/23 00:00	06/08/23 10:10

Atlantic Richfield Company
A BP affiliated company

Laboratory Management Program LaM

BP/ARC Project Name: Wellsville OU2 - Annual Groundwate
BP/ARC Facility No: USEPA ID: NY-D98053215

410-129732 Chain of Custody

Standard Rush TAT: Yes ___ No X

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Requested Analyses: Select SVOCs 8270 (list below)	Select VOCs 8260 (list below)	Comments
	MW78-0623	6-6-23	1400		X		5	X			X			X	X	
	DUP1-0623	6-6-23	1405		X		5	X			X			X	X	
	OW4-0623	6-6-23	0920		X		5	X			X			X	X	
	MW71-0623	6-7-23	1115		X		5	X			X			X	X	
	MW55R-0623	6-7-23	1320		X		10	X			X			X	X	MS/MSD

Report Type & QC Level: Standard X; Full Data Package

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

VOCs = Benzene, Chloroethane, 1,1-Dichloroethane, Ethylbenzene, Toluene, Vinyl Chloride, Xylene (total)

SVOCs = Acenaphthene, Aniline, Fluorene, 2-Methylnaphthalene, Naphthalene, Nitrobenzene, Phenanthrene

Sampler's Name: Kevin Dye	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Kevin Dye / On-Site Kevin Dye	6/7/23	1405			
Shipment Method: FedEx Ship Date: 6/7/23						
Shipment Tracking No: 7723 7165 5436				JTA FedEx	6/8/23	10:10

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 0.5 / 0.5 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

IM

6/16/2023

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-129732-1

Login Number: 129732

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	True	
WV: Container 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	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386130 | Batch Start Date: 06/13/23 18:34 | Batch Analyst: Drexinger, Marissa C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-386130/5		8260D		5 mL	5 mL				2692
MB 410-386130/9		8260D		5 mL	5 mL				2692
410-129732-A-6	Trip Blank	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-5	MW55R-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-5 MS	MW55R-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-5 MSD	MW55R-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-4	MW71-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-3	OW4-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-2	DUP1-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-129732-A-1	MW78-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Cent_ISSS 00019	MSV_LCS_2CEVE 00119	MSV_LCS_ACROL 00117	MSV_LCS_ETOH 00004	MSV_LCS_Gases 00146	MSV_LCS_VOC#1 00113
LCS 410-386130/5		8260D		5 uL	50 uL	50 uL	50 uL	50 uL	50 uL
MB 410-386130/9		8260D		5 uL					
410-129732-A-6	Trip Blank	8260D	T	5 uL					
410-129732-A-5	MW55R-0623	8260D	T	5 uL					
410-129732-A-5 MS	MW55R-0623	8260D	T	5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-129732-A-5 MSD	MW55R-0623	8260D	T	5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-129732-A-4	MW71-0623	8260D	T	5 uL					
410-129732-A-3	OW4-0623	8260D	T	5 uL					
410-129732-A-2	DUP1-0623	8260D	T	5 uL					
410-129732-A-1	MW78-0623	8260D	T	5 uL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386130 Batch Start Date: 06/13/23 18:34 Batch Analyst: Drexinger, Marissa C

Batch Method: 8260D Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 385564 | Batch Start Date: 06/12/23 15:37 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C | Batch End Date: 06/12/23 19:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-385564/1		3510C, 8270E				250 mL	1 mL	n/a SU	11 SU
LCS 410-385564/2		3510C, 8270E				250 mL	1 mL	n/a SU	11 SU
LCSD 410-385564/3		3510C, 8270E				250 mL	1 mL	n/a SU	11 SU
410-129732-D-1	MW78-0623	3510C, 8270E	T	414.14 g	166.60 g	247.5 mL	1 mL	n/a SU	11 SU
410-129732-D-2	DUP1-0623	3510C, 8270E	T	413.65 g	166.61 g	247 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00090	OP_MINLCS1_MS 00170	OP_MINLCS2_MS 00097	AnalysisComment	
MB 410-385564/1		3510C, 8270E		2 SU	1 mL			tap water	
LCS 410-385564/2		3510C, 8270E		2 SU	1 mL	1 mL	1 mL	tap water	
LCSD 410-385564/3		3510C, 8270E		2 SU	1 mL	1 mL	1 mL	tap water	
410-129732-D-1	MW78-0623	3510C, 8270E	T	2 SU	1 mL			tan cloudy	
410-129732-D-2	DUP1-0623	3510C, 8270E	T	2 SU	1 mL			tan cloudy	

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067 DBH82588 AS86224
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23158A
Analyst ID - Concentration	OS11067 DBH82588 AS86224
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 385564 Batch Start Date: 06/12/23 15:37 Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C Batch End Date: 06/12/23 19:59

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386093 | Batch Start Date: 06/13/23 15:34 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C | Batch End Date: 06/13/23 20:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-386093/1		3510C, 8270E				250 mL	1 mL	11 SU	2 SU
LCS 410-386093/2		3510C, 8270E				250 mL	1 mL	11 SU	2 SU
410-129732-C-5 MS	MW55R-0623	3510C, 8270E	T	413.12 g	166.12 g	247 mL	1 mL	11 SU	2 SU
410-129732-C-5 MSD	MW55R-0623	3510C, 8270E	T	417.21 g	169.73 g	247.5 mL	1 mL	11 SU	2 SU
410-129732-D-3	OW4-0623	3510C, 8270E	T	413.12 g	167.16 g	246 mL	1 mL	11 SU	2 SU
410-129732-D-4	MW71-0623	3510C, 8270E	T	414.80 g	169.33 g	245.5 mL	1 mL	11 SU	2 SU
410-129732-C-5	MW55R-0623	3510C, 8270E	T	413.13 g	165.67 g	247.5 mL	1 mL	11 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_MINIBNA_SS 00090	OP_MINLCS1_MS 00170	OP_MINLCS2_MS 00098	AnalysisComment		
MB 410-386093/1		3510C, 8270E		1 mL			tap h20		
LCS 410-386093/2		3510C, 8270E		1 mL	1 mL	1 mL	tap h20		
410-129732-C-5 MS	MW55R-0623	3510C, 8270E	T	1 mL	1 mL	1 mL	orange cloudy		
410-129732-C-5 MSD	MW55R-0623	3510C, 8270E	T	1 mL	1 mL	1 mL	orange cloudy		
410-129732-D-3	OW4-0623	3510C, 8270E	T	1 mL			tan tint		
410-129732-D-4	MW71-0623	3510C, 8270E	T	1 mL			tan tint		
410-129732-C-5	MW55R-0623	3510C, 8270E	T	1 mL			tan tint		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-129732-1

SDG No.:

Batch Number: 386093 | Batch Start Date: 06/13/23 15:34 | Batch Analyst: Battle-Hilacion, Destiny

Batch Method: 3510C | Batch End Date: 06/13/23 20:35

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	OS11067 DBH82588 AS86224
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23163A
Analyst ID - Concentration	OS11067 DBH82588 AS86224
Equipment ID - Concentration 1	BUCHI
Concentration 1 Corrected Temperature	55 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Jon Brandes
On-Site Health and Safety
72 Railroad Ave
Wellsville, New York 14895

Generated 6/26/2023 10:33:04 PM

JOB DESCRIPTION

Wellsville-OU1 Bi-Annual Groundwater

JOB NUMBER

410-130420-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

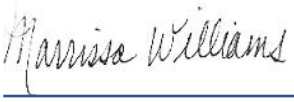
See page two for job notes and contact information.

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Marrissa Williams, Project Manager
Marrissa.Williams@et.eurofinsus.com
(717)556-7246

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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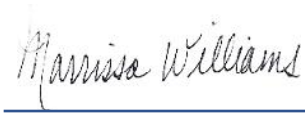

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Definitions/Glossary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
cn	Refer to Case Narrative for further detail
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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: 410-130420-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Narrative

Job Narrative
410-130420-1

Receipt
The samples were received on 6/13/2023 10:05 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 1.9°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed on 410-389336 is compliant under 8260C/D method criteria for Methylene Chloride . The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-389336 recovered above the upper control limit for Carbon disulfide and Methyl acetate. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

GC/MS Semi VOA
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.

Detection Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: EB1-0623 — Lab Sample ID: 410-130420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.011		0.010		mg/L	1		6010D	Total Recoverable

Client Sample ID: MWR3-0623 — Lab Sample ID: 410-130420-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.21		0.0050		mg/L	1		6010D	Total Recoverable
Calcium	34		0.50		mg/L	1		6010D	Total Recoverable
Iron	4.9		0.20		mg/L	1		6010D	Total Recoverable
Magnesium	22		0.10		mg/L	1		6010D	Total Recoverable
Manganese	4.3		0.010		mg/L	1		6010D	Total Recoverable
Potassium	1.9		0.50		mg/L	1		6010D	Total Recoverable
Sodium	12		1.0		mg/L	1		6010D	Total Recoverable

Client Sample ID: MWR2-0623 — Lab Sample ID: 410-130420-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	12		5.0		ug/L	1		8260D	Total/NA
Isopropylbenzene	11		5.0		ug/L	1		8260D	Total/NA
Methylcyclohexane	26		5.0		ug/L	1		8260D	Total/NA
Barium	0.38		0.0050		mg/L	1		6010D	Total Recoverable
Calcium	39		0.50		mg/L	1		6010D	Total Recoverable
Iron	48		0.20		mg/L	1		6010D	Total Recoverable
Magnesium	29		0.10		mg/L	1		6010D	Total Recoverable
Manganese	10		0.010		mg/L	1		6010D	Total Recoverable
Potassium	1.5		0.50		mg/L	1		6010D	Total Recoverable
Sodium	21		1.0		mg/L	1		6010D	Total Recoverable

Client Sample ID: Trip Blank — Lab Sample ID: 410-130420-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/21/23 20:14	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
2-Butanone	10	U	10		ug/L			06/21/23 20:14	1
2-Hexanone	10	U	10		ug/L			06/21/23 20:14	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/21/23 20:14	1
Acetone	20	U	20		ug/L			06/21/23 20:14	1
Benzene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Bromoform	4.0	U	4.0		ug/L			06/21/23 20:14	1
Bromomethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/21/23 20:14	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chlorobenzene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chloroethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chloroform	1.0	U	1.0		ug/L			06/21/23 20:14	1
Chloromethane	2.0	U	2.0		ug/L			06/21/23 20:14	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Cyclohexane	5.0	U	5.0		ug/L			06/21/23 20:14	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Ethylbenzene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Freon 113	10	U	10		ug/L			06/21/23 20:14	1
Isopropylbenzene	5.0	U	5.0		ug/L			06/21/23 20:14	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/21/23 20:14	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/21/23 20:14	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/21/23 20:14	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/21/23 20:14	1
Styrene	5.0	U	5.0		ug/L			06/21/23 20:14	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Toluene	1.0	U	1.0		ug/L			06/21/23 20:14	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/21/23 20:14	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Trichloroethene	1.0	U	1.0		ug/L			06/21/23 20:14	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/21/23 20:14	1
Vinyl chloride	1.0	U	1.0		ug/L			06/21/23 20:14	1
Xylenes, Total	1.0	U	1.0		ug/L			06/21/23 20:14	1

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/21/23 20:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/21/23 20:14*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*06/21/23 20:14*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/21/23 20:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,2'-oxybis[1-chloropropane]	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4,5-Trichlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4,6-Trichlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dichlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dimethylphenol	11	U	11		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dinitrophenol	32	U	32		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,4-Dinitrotoluene	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
2,6-Dinitrotoluene	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Chloronaphthalene	1.1	U	1.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Chlorophenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Methylnaphthalene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Methylphenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Nitroaniline	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
2-Nitrophenol	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
3,3'-Dichlorobenzidine	11	U	11		ug/L		06/16/23 14:55	06/19/23 12:14	1
3-Nitroaniline	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
4,6-Dinitro-2-methylphenol	22	U	22		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Bromophenyl phenyl ether	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Chloro-3-methylphenol	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Chloroaniline	11	U	11		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Chlorophenyl phenyl ether	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Methylphenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Nitroaniline	3.2	U	3.2		ug/L		06/16/23 14:55	06/19/23 12:14	1
4-Nitrophenol	32	U	32		ug/L		06/16/23 14:55	06/19/23 12:14	1
Acenaphthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Acenaphthylene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Acetophenone	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Anthracene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Atrazine	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzaldehyde	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[a]anthracene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[a]pyrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[b]fluoranthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[g,h,i]perylene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Benzo[k]fluoranthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Bis(2-chloroethoxy)methane	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Bis(2-chloroethyl)ether	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Bis(2-ethylhexyl) phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Butyl benzyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Caprolactam	7.4	U	7.4		ug/L		06/16/23 14:55	06/19/23 12:14	1
Carbazole	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Chrysene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Dibenzofuran	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Diethyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Dimethyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Di-n-butyl phthalate	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Di-n-octyl phthalate	12	U	12		ug/L		06/16/23 14:55	06/19/23 12:14	1
Fluoranthene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Fluorene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachlorobenzene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachlorobutadiene	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachlorocyclopentadiene	12	U	12		ug/L		06/16/23 14:55	06/19/23 12:14	1
Hexachloroethane	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Indeno[1,2,3-cd]pyrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Isophorone	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Naphthalene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Nitrobenzene	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
N-Nitrosodi-n-propylamine	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
N-Nitrosodiphenylamine	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Pentachlorophenol	5.3	U	5.3		ug/L		06/16/23 14:55	06/19/23 12:14	1
Phenanthrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1
Phenol	2.1	U	2.1		ug/L		06/16/23 14:55	06/19/23 12:14	1
Pyrene	0.53	U	0.53		ug/L		06/16/23 14:55	06/19/23 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*51*		*13 - 138*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
2-Fluorobiphenyl (Surr)	*70*		*44 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
2-Fluorophenol (Surr)	*29*		*10 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
Nitrobenzene-d5 (Surr)	*71*		*31 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
Phenol-d5 (Surr)	*20*		*10 - 120*	*06/16/23 14:55*	*06/19/23 12:14*	*1*
p-Terphenyl-d14 (Surr)	*80*		*30 - 125*	*06/16/23 14:55*	*06/19/23 12:14*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 08:04	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Barium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Calcium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 08:04	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:04	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:04	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:04	1
Iron	0.20	U	0.20		mg/L		06/21/23 11:59	06/22/23 08:04	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:04	1
Magnesium	0.10	U	0.10		mg/L		06/21/23 11:59	06/22/23 08:04	1
Manganese	**0.011**		0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Potassium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 08:04	1
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:04	1

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1

Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 6010D - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Sodium	1.0	U	1.0		mg/L		06/21/23 11:59	06/22/23 08:04	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 08:04	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:04	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:04	1

Method: SW846 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 10:27	1

Client Sample ID: MWR3-0623
Lab Sample ID: 410-130420-2

Date Collected: 06/12/23 10:05
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/22/23 01:44	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
2-Butanone	10	U	10		ug/L			06/22/23 01:44	1
2-Hexanone	10	U	10		ug/L			06/22/23 01:44	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/22/23 01:44	1
Acetone	20	U	20		ug/L			06/22/23 01:44	1
Benzene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Bromoform	4.0	U	4.0		ug/L			06/22/23 01:44	1
Bromomethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/22/23 01:44	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chlorobenzene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chloroethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chloroform	1.0	U	1.0		ug/L			06/22/23 01:44	1
Chloromethane	2.0	U	2.0		ug/L			06/22/23 01:44	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Cyclohexane	5.0	U	5.0		ug/L			06/22/23 01:44	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Ethylbenzene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Freon 113	10	U	10		ug/L			06/22/23 01:44	1

Client Sample ID: MWR3-0623
Lab Sample ID: 410-130420-2
Date Collected: 06/12/23 10:05
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	5.0	U	5.0		ug/L			06/22/23 01:44	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/22/23 01:44	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/22/23 01:44	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/22/23 01:44	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/22/23 01:44	1
Styrene	5.0	U	5.0		ug/L			06/22/23 01:44	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Toluene	1.0	U	1.0		ug/L			06/22/23 01:44	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/22/23 01:44	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Trichloroethene	1.0	U	1.0		ug/L			06/22/23 01:44	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/22/23 01:44	1
Vinyl chloride	1.0	U	1.0		ug/L			06/22/23 01:44	1
Xylenes, Total	1.0	U	1.0		ug/L			06/22/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/22/23 01:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/22/23 01:44*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/22/23 01:44*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/22/23 01:44*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 08:17	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Barium	**0.21**		0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Calcium	**34**		0.50		mg/L		06/21/23 11:59	06/22/23 08:17	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:17	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:17	1
Iron	**4.9**		0.20		mg/L		06/21/23 11:59	06/22/23 08:17	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:17	1
Magnesium	**22**		0.10		mg/L		06/21/23 11:59	06/22/23 08:17	1
Manganese	**4.3**		0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Potassium	**1.9**		0.50		mg/L		06/21/23 11:59	06/22/23 20:37	1
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:17	1
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Sodium	**12**		1.0		mg/L		06/21/23 11:59	06/22/23 08:17	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 08:17	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:17	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:17	1

Method: SW846 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 10:25	1

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: MWR2-0623
Lab Sample ID: 410-130420-3
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/22/23 02:06	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/22/23 02:06	1
2-Butanone	10	U	10		ug/L			06/22/23 02:06	1
2-Hexanone	10	U	10		ug/L			06/22/23 02:06	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/22/23 02:06	1
Acetone	20	U	20		ug/L			06/22/23 02:06	1
Benzene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Bromoform	4.0	U	4.0		ug/L			06/22/23 02:06	1
Bromomethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/22/23 02:06	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chlorobenzene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chloroethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chloroform	1.0	U	1.0		ug/L			06/22/23 02:06	1
Chloromethane	2.0	U	2.0		ug/L			06/22/23 02:06	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Cyclohexane	**12**		5.0		ug/L			06/22/23 02:06	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Ethylbenzene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Freon 113	10	U	10		ug/L			06/22/23 02:06	1
Isopropylbenzene	**11**		5.0		ug/L			06/22/23 02:06	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/22/23 02:06	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/22/23 02:06	1
Methylcyclohexane	**26**		5.0		ug/L			06/22/23 02:06	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/22/23 02:06	1
Styrene	5.0	U	5.0		ug/L			06/22/23 02:06	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Toluene	1.0	U	1.0		ug/L			06/22/23 02:06	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/22/23 02:06	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Trichloroethene	1.0	U	1.0		ug/L			06/22/23 02:06	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/22/23 02:06	1
Vinyl chloride	1.0	U	1.0		ug/L			06/22/23 02:06	1
Xylenes, Total	1.0	U	1.0		ug/L			06/22/23 02:06	1

Client Sample ID: MWR2-0623
Lab Sample ID: 410-130420-3

Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*06/22/23 02:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/22/23 02:06*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/22/23 02:06*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/22/23 02:06*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 08:07	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Barium	**0.38**		0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Calcium	**39**		0.50		mg/L		06/21/23 11:59	06/22/23 08:07	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:07	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:07	1
Iron	**48**		0.20		mg/L		06/21/23 11:59	06/22/23 08:07	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 08:07	1
Magnesium	**29**		0.10		mg/L		06/21/23 11:59	06/22/23 08:07	1
Manganese	**10**		0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Potassium	**1.5**		0.50		mg/L		06/21/23 11:59	06/26/23 09:31	1
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 08:07	1
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Sodium	**21**		1.0		mg/L		06/21/23 11:59	06/22/23 08:07	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 08:07	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 08:07	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 08:07	1

Method: SW846 7470A - Mercury

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 10:33	1

Client Sample ID: Trip Blank
Lab Sample ID: 410-130420-4

Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/21/23 20:36	1

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: Trip Blank
Lab Sample ID: 410-130420-4
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
2-Butanone	10	U	10		ug/L			06/21/23 20:36	1
2-Hexanone	10	U	10		ug/L			06/21/23 20:36	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/21/23 20:36	1
Acetone	20	U	20		ug/L			06/21/23 20:36	1
Benzene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Bromoform	4.0	U	4.0		ug/L			06/21/23 20:36	1
Bromomethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Carbon disulfide	5.0	U cn	5.0		ug/L			06/21/23 20:36	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chlorobenzene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chloroethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chloroform	1.0	U	1.0		ug/L			06/21/23 20:36	1
Chloromethane	2.0	U	2.0		ug/L			06/21/23 20:36	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Cyclohexane	5.0	U	5.0		ug/L			06/21/23 20:36	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Ethylbenzene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Freon 113	10	U	10		ug/L			06/21/23 20:36	1
Isopropylbenzene	5.0	U	5.0		ug/L			06/21/23 20:36	1
Methyl acetate	5.0	U cn	5.0		ug/L			06/21/23 20:36	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/21/23 20:36	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/21/23 20:36	1
Methylene Chloride	1.0	U cn	1.0		ug/L			06/21/23 20:36	1
Styrene	5.0	U	5.0		ug/L			06/21/23 20:36	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Toluene	1.0	U	1.0		ug/L			06/21/23 20:36	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/21/23 20:36	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Trichloroethene	1.0	U	1.0		ug/L			06/21/23 20:36	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/21/23 20:36	1
Vinyl chloride	1.0	U	1.0		ug/L			06/21/23 20:36	1
Xylenes, Total	1.0	U	1.0		ug/L			06/21/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*06/21/23 20:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/21/23 20:36*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*06/21/23 20:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/21/23 20:36*	*1*

Surrogate Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Method: 8260D - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-130420-1	EB1-0623	105	92	113	101
410-130420-2	MWR3-0623	103	98	103	105
410-130420-3	MWR2-0623	100	101	102	106
410-130420-4	Trip Blank	108	93	114	102
LCS 410-389336/4	Lab Control Sample	100	100	103	106
MB 410-389336/6	Method Blank	108	92	112	102

Surrogate Legend

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

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(13-138)	(44-120)	(10-120)	(31-120)	(10-120)	(30-125)
410-130420-1	EB1-0623	51	70	29	71	20	80
LCS 410-387652/2-A	Lab Control Sample	61	74	36	75	28	72
MB 410-387652/1-A	Method Blank	61	76	32	72	25	89

Surrogate Legend

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

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-389336/6
Matrix: Water
Analysis Batch: 389336

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	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1,2-Trichloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,1-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,2,4-Trichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,2-Dibromoethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,2-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,2-Dichloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,2-Dichloropropane	1.0	U	1.0		ug/L			06/21/23 19:52	1
1,3-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
1,4-Dichlorobenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
2-Butanone	10	U	10		ug/L			06/21/23 19:52	1
2-Hexanone	10	U	10		ug/L			06/21/23 19:52	1
4-Methyl-2-pentanone	10	U	10		ug/L			06/21/23 19:52	1
Acetone	20	U	20		ug/L			06/21/23 19:52	1
Benzene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Bromodichloromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Bromoform	4.0	U	4.0		ug/L			06/21/23 19:52	1
Bromomethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Carbon disulfide	5.0	U	5.0		ug/L			06/21/23 19:52	1
Carbon tetrachloride	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chlorobenzene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chloroethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chloroform	1.0	U	1.0		ug/L			06/21/23 19:52	1
Chloromethane	2.0	U	2.0		ug/L			06/21/23 19:52	1
cis-1,2-Dichloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
cis-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Cyclohexane	5.0	U	5.0		ug/L			06/21/23 19:52	1
Dibromochloromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Dichlorodifluoromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Ethylbenzene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Freon 113	10	U	10		ug/L			06/21/23 19:52	1
Isopropylbenzene	5.0	U	5.0		ug/L			06/21/23 19:52	1
Methyl acetate	5.0	U	5.0		ug/L			06/21/23 19:52	1
Methyl tertiary butyl ether	1.0	U	1.0		ug/L			06/21/23 19:52	1
Methylcyclohexane	5.0	U	5.0		ug/L			06/21/23 19:52	1
Methylene Chloride	1.0	U	1.0		ug/L			06/21/23 19:52	1
Styrene	5.0	U	5.0		ug/L			06/21/23 19:52	1
Tetrachloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Toluene	1.0	U	1.0		ug/L			06/21/23 19:52	1
trans-1,2-Dichloroethene	2.0	U	2.0		ug/L			06/21/23 19:52	1
trans-1,3-Dichloropropene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Trichloroethene	1.0	U	1.0		ug/L			06/21/23 19:52	1
Trichlorofluoromethane	1.0	U	1.0		ug/L			06/21/23 19:52	1
Vinyl chloride	1.0	U	1.0		ug/L			06/21/23 19:52	1
Xylenes, Total	1.0	U	1.0		ug/L			06/21/23 19:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-389336/6
Matrix: Water
Analysis Batch: 389336

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		06/21/23 19:52	1
4-Bromofluorobenzene (Surr)	92		80 - 120		06/21/23 19:52	1
Dibromofluoromethane (Surr)	112		80 - 120		06/21/23 19:52	1
Toluene-d8 (Surr)	102		80 - 120		06/21/23 19:52	1

Lab Sample ID: LCS 410-389336/4
Matrix: Water
Analysis Batch: 389336

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	20.3		ug/L		102	67 - 126
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	72 - 120
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	80 - 120
1,1-Dichloroethane	20.0	20.9		ug/L		104	80 - 120
1,1-Dichloroethene	20.0	22.6		ug/L		113	80 - 131
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	63 - 120
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		102	47 - 131
1,2-Dibromoethane	20.0	19.1		ug/L		95	77 - 120
1,2-Dichlorobenzene	20.0	18.5		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	19.7		ug/L		98	73 - 124
1,2-Dichloropropane	20.0	20.4		ug/L		102	80 - 120
1,3-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
2-Butanone	250	305		ug/L		122	59 - 135
2-Hexanone	250	309		ug/L		124	56 - 135
4-Methyl-2-pentanone	250	293		ug/L		117	62 - 133
Acetone	250	259		ug/L		104	54 - 157
Benzene	20.0	20.5		ug/L		102	80 - 120
Bromodichloromethane	20.0	19.4		ug/L		97	71 - 120
Bromoform	20.0	19.4		ug/L		97	51 - 120
Bromomethane	20.0	18.7		ug/L		94	53 - 128
Carbon disulfide	20.0	22.7		ug/L		113	65 - 128
Carbon tetrachloride	20.0	21.1		ug/L		105	64 - 134
Chlorobenzene	20.0	18.1		ug/L		90	80 - 120
Chloroethane	20.0	22.4		ug/L		112	55 - 123
Chloroform	20.0	19.9		ug/L		99	80 - 120
Chloromethane	20.0	20.5		ug/L		102	56 - 121
cis-1,2-Dichloroethene	20.0	20.3		ug/L		102	80 - 125
cis-1,3-Dichloropropene	20.0	17.0		ug/L		85	75 - 120
Cyclohexane	20.0	21.0		ug/L		105	68 - 126
Dibromochloromethane	20.0	19.7		ug/L		98	71 - 120
Dichlorodifluoromethane	20.0	17.6		ug/L		88	41 - 127
Ethylbenzene	20.0	18.5		ug/L		92	80 - 120
Freon 113	20.0	21.0		ug/L		105	73 - 139
Isopropylbenzene	20.0	18.8		ug/L		94	80 - 120
Methyl acetate	20.0	25.9		ug/L		129	54 - 136
Methyl tertiary butyl ether	20.0	18.4		ug/L		92	69 - 122
Methylcyclohexane	20.0	18.4		ug/L		92	67 - 121

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-389336/4
Matrix: Water
Analysis Batch: 389336

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	20.0	23.3		ug/L		117	80 - 120
Styrene	20.0	17.7		ug/L		88	80 - 120
Tetrachloroethene	20.0	18.3		ug/L		92	80 - 120
Toluene	20.0	19.1		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	20.3		ug/L		102	80 - 126
trans-1,3-Dichloropropene	20.0	18.9		ug/L		94	67 - 120
Trichloroethene	20.0	18.1		ug/L		91	80 - 120
Trichlorofluoromethane	20.0	18.3		ug/L		91	55 - 135
Vinyl chloride	20.0	19.5		ug/L		97	56 - 120
Xylenes, Total	60.0	53.7		ug/L		90	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-387652/1-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,2'-oxybis[1-chloropropane]	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4,5-Trichlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4,6-Trichlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dichlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dimethylphenol	10	U	10		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dinitrophenol	30	U	30		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,4-Dinitrotoluene	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2,6-Dinitrotoluene	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Chloronaphthalene	1.0	U	1.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Chlorophenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Methylnaphthalene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Methylphenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Nitroaniline	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
2-Nitrophenol	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
3,3'-Dichlorobenzidine	10	U	10		ug/L		06/16/23 14:55	06/19/23 08:38	1
3-Nitroaniline	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4,6-Dinitro-2-methylphenol	21	U	21		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Bromophenyl phenyl ether	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Chloro-3-methylphenol	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Chloroaniline	10	U	10		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Chlorophenyl phenyl ether	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Methylphenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Nitroaniline	3.0	U	3.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
4-Nitrophenol	30	U	30		ug/L		06/16/23 14:55	06/19/23 08:38	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-387652/1-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Acenaphthylene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Acetophenone	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Anthracene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Atrazine	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzaldehyde	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[a]anthracene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[a]pyrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[b]fluoranthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[g,h,i]perylene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Benzo[k]fluoranthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Bis(2-chloroethoxy)methane	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Bis(2-chloroethyl)ether	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Bis(2-ethylhexyl) phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Butyl benzyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Caprolactam	7.0	U	7.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Carbazole	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Chrysene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Dibenz(a,h)anthracene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Dibenzofuran	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Diethyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Dimethyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Di-n-butyl phthalate	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Di-n-octyl phthalate	11	U	11		ug/L		06/16/23 14:55	06/19/23 08:38	1
Fluoranthene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Fluorene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachlorobenzene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachlorobutadiene	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachlorocyclopentadiene	11	U	11		ug/L		06/16/23 14:55	06/19/23 08:38	1
Hexachloroethane	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Indeno[1,2,3-cd]pyrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Isophorone	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Naphthalene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Nitrobenzene	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
N-Nitrosodi-n-propylamine	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
N-Nitrosodiphenylamine	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Pentachlorophenol	5.0	U	5.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Phenanthrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1
Phenol	2.0	U	2.0		ug/L		06/16/23 14:55	06/19/23 08:38	1
Pyrene	0.50	U	0.50		ug/L		06/16/23 14:55	06/19/23 08:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*13 - 138*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
2-Fluorobiphenyl (Surr)	*76*		*44 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
2-Fluorophenol (Surr)	*32*		*10 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
Nitrobenzene-d5 (Surr)	*72*		*31 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
Phenol-d5 (Surr)	*25*		*10 - 120*	*06/16/23 14:55*	*06/19/23 08:38*	*1*
p-Terphenyl-d14 (Surr)	*89*		*30 - 125*	*06/16/23 14:55*	*06/19/23 08:38*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-387652/2-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	50.0	50.2		ug/L		100	55 - 120
2,2'-oxybis[1-chloropropane]	50.0	44.5		ug/L		89	43 - 121
2,4,5-Trichlorophenol	50.0	38.3		ug/L		77	60 - 136
2,4,6-Trichlorophenol	50.0	38.7		ug/L		77	63 - 133
2,4-Dichlorophenol	50.0	37.6		ug/L		75	60 - 127
2,4-Dimethylphenol	50.0	49.1		ug/L		98	62 - 120
2,4-Dinitrophenol	100	73.5		ug/L		74	36 - 147
2,4-Dinitrotoluene	50.0	55.2		ug/L		110	66 - 131
2,6-Dinitrotoluene	50.0	54.5		ug/L		109	66 - 129
2-Chloronaphthalene	50.0	47.5		ug/L		95	51 - 120
2-Chlorophenol	50.0	33.3		ug/L		67	57 - 120
2-Methylnaphthalene	50.0	48.3		ug/L		97	53 - 120
2-Methylphenol	50.0	36.6		ug/L		73	58 - 120
2-Nitroaniline	50.0	54.7		ug/L		109	63 - 134
2-Nitrophenol	50.0	39.6		ug/L		79	57 - 127
3,3'-Dichlorobenzidine	100	81.5		ug/L		82	31 - 120
3-Nitroaniline	50.0	47.8		ug/L		96	44 - 125
4,6-Dinitro-2-methylphenol	100	83.3		ug/L		83	54 - 148
4-Bromophenyl phenyl ether	50.0	50.9		ug/L		102	66 - 120
4-Chloro-3-methylphenol	50.0	38.5		ug/L		77	57 - 129
4-Chloroaniline	50.0	42.4		ug/L		85	33 - 120
4-Chlorophenyl phenyl ether	50.0	47.2		ug/L		94	59 - 120
4-Methylphenol	50.0	32.7		ug/L		65	49 - 120
4-Nitroaniline	50.0	51.0		ug/L		102	55 - 126
4-Nitrophenol	100	45.6		ug/L		46	17 - 120
Acenaphthene	50.0	48.9		ug/L		98	59 - 120
Acenaphthylene	50.0	51.0		ug/L		102	61 - 121
Acetophenone	50.0	50.5		ug/L		101	60 - 120
Anthracene	50.0	53.7		ug/L		107	67 - 123
Atrazine	50.0	54.2		ug/L		108	53 - 126
Benzaldehyde	50.0	46.6		ug/L		93	36 - 120
Benzo[a]anthracene	50.0	46.1		ug/L		92	66 - 133
Benzo[a]pyrene	50.0	43.6		ug/L		87	64 - 131
Benzo[b]fluoranthene	50.0	39.7		ug/L		79	64 - 124
Benzo[g,h,i]perylene	50.0	41.1		ug/L		82	60 - 136
Benzo[k]fluoranthene	50.0	45.8		ug/L		92	67 - 132
Bis(2-chloroethoxy)methane	50.0	52.2		ug/L		104	61 - 123
Bis(2-chloroethyl)ether	50.0	50.6		ug/L		101	62 - 120
Bis(2-ethylhexyl) phthalate	50.0	43.3		ug/L		87	60 - 133
Butyl benzyl phthalate	50.0	48.8		ug/L		98	30 - 128
Caprolactam	50.0	11.9		ug/L		24	12 - 120
Carbazole	50.0	55.9		ug/L		112	65 - 135
Chrysene	50.0	48.9		ug/L		98	70 - 128
Dibenz(a,h)anthracene	50.0	39.7		ug/L		79	59 - 135
Dibenzofuran	50.0	51.2		ug/L		102	63 - 120
Diethyl phthalate	50.0	50.9		ug/L		102	46 - 123
Dimethyl phthalate	50.0	49.6		ug/L		99	10 - 135
Di-n-butyl phthalate	50.0	51.2		ug/L		102	58 - 132

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-387652/2-A
Matrix: Water
Analysis Batch: 387996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Di-n-octyl phthalate	50.0	38.8		ug/L		78	52 - 146
Fluoranthene	50.0	50.0		ug/L		100	70 - 128
Fluorene	50.0	51.2		ug/L		102	66 - 120
Hexachlorobenzene	50.0	43.3		ug/L		87	61 - 126
Hexachlorobutadiene	50.0	42.2		ug/L		84	10 - 120
Hexachlorocyclopentadiene	50.0	29.0		ug/L		58	10 - 120
Hexachloroethane	50.0	45.1		ug/L		90	16 - 120
Indeno[1,2,3-cd]pyrene	50.0	37.0		ug/L		74	55 - 134
Isophorone	50.0	49.7		ug/L		99	63 - 124
Naphthalene	50.0	48.3		ug/L		97	55 - 120
Nitrobenzene	50.0	50.5		ug/L		101	59 - 120
N-Nitrosodi-n-propylamine	50.0	48.1		ug/L		96	57 - 120
N-Nitrosodiphenylamine	42.5	46.9		ug/L		110	64 - 130
Pentachlorophenol	100	76.6		ug/L		77	51 - 138
Phenanthrene	50.0	53.1		ug/L		106	66 - 120
Phenol	50.0	19.6		ug/L		39	22 - 120
Pyrene	50.0	51.1		ug/L		102	67 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*61*		*13 - 138*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*
2-Fluorophenol (Surr)	*36*		*10 - 120*
Nitrobenzene-d5 (Surr)	*75*		*31 - 120*
Phenol-d5 (Surr)	*28*		*10 - 120*
p-Terphenyl-d14 (Surr)	*72*		*30 - 125*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-389190/1-A
Matrix: Water
Analysis Batch: 389711

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.30	U	0.30		mg/L		06/21/23 11:59	06/22/23 07:26	1
Antimony	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Arsenic	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Barium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Beryllium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Cadmium	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Calcium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 07:26	1
Chromium	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 07:26	1
Cobalt	0.0050	U	0.0050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Copper	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 07:26	1
Iron	0.20	U	0.20		mg/L		06/21/23 11:59	06/22/23 07:26	1
Lead	0.015	U	0.015		mg/L		06/21/23 11:59	06/22/23 07:26	1
Magnesium	0.10	U	0.10		mg/L		06/21/23 11:59	06/22/23 07:26	1
Manganese	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Nickel	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Potassium	0.50	U	0.50		mg/L		06/21/23 11:59	06/22/23 07:26	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-389190/1-A
Matrix: Water
Analysis Batch: 389711

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 389190

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.050	U	0.050		mg/L		06/21/23 11:59	06/22/23 07:26	1
Silver	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Sodium	1.0	U	1.0		mg/L		06/21/23 11:59	06/22/23 07:26	1
Thallium	0.030	U	0.030		mg/L		06/21/23 11:59	06/22/23 07:26	1
Vanadium	0.010	U	0.010		mg/L		06/21/23 11:59	06/22/23 07:26	1
Zinc	0.020	U	0.020		mg/L		06/21/23 11:59	06/22/23 07:26	1

Lab Sample ID: LCS 410-389190/2-A
Matrix: Water
Analysis Batch: 389711

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 389190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	5.00		mg/L		100	80 - 120
Antimony	0.100	0.101		mg/L		101	80 - 120
Arsenic	0.500	0.518		mg/L		104	80 - 120
Barium	0.500	0.492		mg/L		98	80 - 120
Beryllium	0.0500	0.0479		mg/L		96	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Calcium	5.00	5.07		mg/L		101	80 - 120
Chromium	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Copper	0.500	0.494		mg/L		99	80 - 120
Iron	5.00	5.11		mg/L		102	80 - 120
Lead	0.0500	0.0513		mg/L		103	80 - 120
Magnesium	5.00	5.10		mg/L		102	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120
Nickel	0.500	0.510		mg/L		102	80 - 120
Potassium	5.00	5.14		mg/L		103	80 - 120
Selenium	0.100	0.108		mg/L		108	80 - 120
Silver	0.0500	0.0495		mg/L		99	80 - 120
Sodium	5.00	5.06		mg/L		101	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120
Vanadium	0.500	0.505		mg/L		101	80 - 120
Zinc	0.500	0.506		mg/L		101	80 - 120

Method: 7470A - Mercury

Lab Sample ID: MB 410-388760/1-A
Matrix: Water
Analysis Batch: 389166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 388760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020		mg/L		06/20/23 23:45	06/21/23 09:55	1

Lab Sample ID: LCS 410-388760/2-A
Matrix: Water
Analysis Batch: 389166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 388760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.000931		mg/L		93	80 - 118

GC/MS VOA

Analysis Batch: 389336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	8260D	
410-130420-2	MWR3-0623	Total/NA	Water	8260D	
410-130420-3	MWR2-0623	Total/NA	Water	8260D	
410-130420-4	Trip Blank	Total/NA	Water	8260D	
MB 410-389336/6	Method Blank	Total/NA	Water	8260D	
LCS 410-389336/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 387652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	3510C	
MB 410-387652/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-387652/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 387996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	8270E	387652
MB 410-387652/1-A	Method Blank	Total/NA	Water	8270E	387652
LCS 410-387652/2-A	Lab Control Sample	Total/NA	Water	8270E	387652

Metals

Prep Batch: 388760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	7470A	
410-130420-2	MWR3-0623	Total/NA	Water	7470A	
410-130420-3	MWR2-0623	Total/NA	Water	7470A	
MB 410-388760/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-388760/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 389166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total/NA	Water	7470A	388760
410-130420-2	MWR3-0623	Total/NA	Water	7470A	388760
410-130420-3	MWR2-0623	Total/NA	Water	7470A	388760
MB 410-388760/1-A	Method Blank	Total/NA	Water	7470A	388760
LCS 410-388760/2-A	Lab Control Sample	Total/NA	Water	7470A	388760

Prep Batch: 389190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total Recoverable	Water	3005A	
410-130420-2	MWR3-0623	Total Recoverable	Water	3005A	
410-130420-3	MWR2-0623	Total Recoverable	Water	3005A	
MB 410-389190/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-389190/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 389711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-1	EB1-0623	Total Recoverable	Water	6010D	389190
410-130420-2	MWR3-0623	Total Recoverable	Water	6010D	389190
410-130420-3	MWR2-0623	Total Recoverable	Water	6010D	389190

Metals (Continued)

Analysis Batch: 389711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-389190/1-A	Method Blank	Total Recoverable	Water	6010D	389190
LCS 410-389190/2-A	Lab Control Sample	Total Recoverable	Water	6010D	389190

Analysis Batch: 389925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-2	MWR3-0623	Total Recoverable	Water	6010D	389190

Analysis Batch: 390755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130420-3	MWR2-0623	Total Recoverable	Water	6010D	389190

Lab Chronicle

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Client Sample ID: EB1-0623
Lab Sample ID: 410-130420-1
Date Collected: 06/12/23 07:30
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/21/23 20:14
Total/NA	Prep	3510C			387652	QJZ6	ELLE	06/16/23 14:55
Total/NA	Analysis	8270E		1	387996	GLQ9	ELLE	06/19/23 12:14
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389711	MT26	ELLE	06/22/23 08:04
Total/NA	Prep	7470A			388760	UAMX	ELLE	06/20/23 23:45
Total/NA	Analysis	7470A		1	389166	UEFS	ELLE	06/21/23 10:27

Client Sample ID: MWR3-0623
Lab Sample ID: 410-130420-2
Date Collected: 06/12/23 10:05
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/22/23 01:44
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389925	T8CQ	ELLE	06/22/23 20:37
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389711	MT26	ELLE	06/22/23 08:17
Total/NA	Prep	7470A			388760	UAMX	ELLE	06/20/23 23:45
Total/NA	Analysis	7470A		1	389166	UEFS	ELLE	06/21/23 10:25

Client Sample ID: MWR2-0623
Lab Sample ID: 410-130420-3
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/22/23 02:06
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	389711	MT26	ELLE	06/22/23 08:07
Total Recoverable	Prep	3005A			389190	UAMX	ELLE	06/21/23 11:59
Total Recoverable	Analysis	6010D		1	390755	MT26	ELLE	06/26/23 09:31
Total/NA	Prep	7470A			388760	UAMX	ELLE	06/20/23 23:45
Total/NA	Analysis	7470A		1	389166	UEFS	ELLE	06/21/23 10:33

Client Sample ID: Trip Blank
Lab Sample ID: 410-130420-4
Date Collected: 06/12/23 12:15
Matrix: Water
Date Received: 06/13/23 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	389336	Y6ZN	ELLE	06/21/23 20:36

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-24

Method Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6010D	Metals (ICP)	SW846	ELLE
7470A	Mercury	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: On-Site Health and Safety
Job ID: 410-130420-1
Project/Site: Wellsville-OU1 Bi-Annual Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-130420-1	EB1-0623	Water	06/12/23 07:30	06/13/23 10:05
410-130420-2	MWR3-0623	Water	06/12/23 10:05	06/13/23 10:05
410-130420-3	MWR2-0623	Water	06/12/23 12:15	06/13/23 10:05
410-130420-4	Trip Blank	Water	06/12/23 12:15	06/13/23 10:05

410-130420 Chain of Custody

boratory Management Program LaMP Chain of Custody Record

Page 1 of 1

ARC Project Name: Wellsville OU1 - Bi-Annual Groundwater | Req Due Date (mm/dd/yy): Standard | Rush TAT: Yes ___ No X

ARC Facility No: USEPA ID: NY-D98053215 | Lab Work Order Number:

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	BP/ARC Facility Address: 2530 South Brooklyn Avenue	Consultant/Contractor: On-Site Technical Services (On-Site)
Lab Address: 2425 New Holland Pike Lancaster, PA 17601	City, State, ZIP Code: Wellsville, New York 14895	Consultant/Contractor Project No: Wellsville-OU2
Lab PM: Marrissa Williams	Lead Regulatory Agency: USEPA	Address: 72 Railroad Ave Wellsville, NY 14895
Lab Phone: 717-556-7246	California Global ID No.: NA	Consultant/Contractor PM: Jon Brandes
Lab Shipping Accnt: 264	Parsons Plus Work Order: 70124189 Profile: 8388	Phone: 585-593-1824
Lab Bottle Order	Parsons Project Manager: Allyson Kriney, allyson.kriney@parsons.com	Email EDD To: jonb@on-sitehs.com
Other Info:		Invoice To: BP/ARC X Contractor ___

BP/ARC EBM: James Schaeffer
EBM Phone: 281-800-7868
EBM Email: jim.schaeffer@bp.com

Report Type & QC Level: Standard X; Full Data Package

Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	VOCs 8260 TCL List (HCL)	Metals 6010 TAL List (HNO3)	SVOCs (NP)
	EB1-0623	6-12-23	0730		X		6	X		X	X			X	X	X
	MWR3-0623	6-12-23	1005		X		4			X	X			X	X	
	MWR2-0623	6-12-23	1215		X		4			X	X			X	X	
	Trip Blank	6-12-23	1215		X		1				X			X		

Comments: Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

Sampler's Name: Kevin Dye	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: On-Site Technical Services	Kevin Dye / On-Site					
Shipment Method: FedEx Ship Date: 6-12-23						
Shipment Tracking No: 7724 1606 4797				AH	6-13-23	1005

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: RAW: 1.9 COR: 1.9 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP/ARC LaMP COC Rev. 6 01/01/2009

Login Sample Receipt Checklist

Client: On-Site Health and Safety

Job Number: 410-130420-1

Login Number: 130420

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McBeth, Jessica

Question	Answer	Comment
The cooler's custody seal 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 389336 | Batch Start Date: 06/21/23 18:04 | Batch Analyst: Drexinger, Marissa C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
LCS 410-389336/4		8260D		5 mL	5 mL				2692
MB 410-389336/6		8260D		5 mL	5 mL				2692
410-130420-A-1	EB1-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130420-A-4	Trip Blank	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130420-A-2	MWR3-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130420-A-3	MWR2-0623	8260D	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP20_ISSS 00106	MSV_LCS_2CEVE 00120	MSV_LCS_ACROL 00118	MSV_LCS_Gases 00147	MSV_LCS_VOC#1 00115	
LCS 410-389336/4		8260D		1 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-389336/6		8260D		1 uL					
410-130420-A-1	EB1-0623	8260D	T	1 uL					
410-130420-A-4	Trip Blank	8260D	T	1 uL					
410-130420-A-2	MWR3-0623	8260D	T	1 uL					
410-130420-A-3	MWR2-0623	8260D	T	1 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 387652 | Batch Start Date: 06/16/23 14:55 | Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C | Batch End Date: 06/16/23 19:14

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-387652/1		3510C, 8270E				250 mL	1 mL	N/A SU	11 SU
LCS 410-387652/2		3510C, 8270E				250 mL	1 mL	N/A SU	11 SU
410-130420-E-1	EB1-0623	3510C, 8270E	T	405.41 g	167.55 g	237.9 mL	1 mL	N/A SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	OP_MINIBNA_SS 00091	OP_MINLCS1_MS 00171	OP_MINLCS2_MS 00098	AnalysisComment	
MB 410-387652/1		3510C, 8270E		2 SU	1 mL			tap water	
LCS 410-387652/2		3510C, 8270E		2 SU	1 mL	1 mL	1 mL	tap water	
410-130420-E-1	EB1-0623	3510C, 8270E	T	2 SU	1 mL			clear	

Batch Notes	
Balance ID	17609
Pipette/Syringe/Dispenser ID	3
Analyst ID - Extraction	OS11067 DBH82588
Analyst ID - Spike Analyst	OS11067
Acid Used for pH Adjustment ID	H2SO4: 225533
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231028
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23166A
Analyst ID - Concentration	OS11067 DBH82588
Equipment ID - Concentration 1	BUCHI
Thermometer ID - Concentration 1	1129661
Concentration 1 Corrected Temperature	55 Degrees C
Equipment ID - Concentration 2	Steam bath 6
Thermometer ID - Concentration 2	1129661
Concentration 2 Corrected Temperature	95 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 387652 Batch Start Date: 06/16/23 14:55 Batch Analyst: Sanchez, Osvaldo

Batch Method: 3510C Batch End Date: 06/16/23 19:14

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 389190 | Batch Start Date: 06/21/23 20:30 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 3005A | Batch End Date: 06/22/23 00:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00028	MP_1:1HNO3 00043	MT_LCS-SPK-A 00027	MT_LCS-SPK-B 00026
MB 410-389190/1		3005A, 6010D		50 mL	50 mL	5 mL	2 mL		
LCS 410-389190/2		3005A, 6010D		50 mL	50 mL	5 mL	2 mL	0.2 mL	0.2 mL
410-130420-G-1	EB1-0623	3005A, 6010D	R	50 mL	50 mL	5 mL	2 mL		
410-130420-E-3	MWR2-0623	3005A, 6010D	R	50 mL	50 mL	5 mL	2 mL		
410-130420-E-2	MWR3-0623	3005A, 6010D	R	50 mL	50 mL	5 mL	2 mL		

Batch Notes	
Digestion Tube/Cup ID	2211204
Pipette/Syringe/Dispenser ID	g20054g
Pipette Tip Lot ID	f169949r
Digestion Unit ID	16
Thermometer ID	3811
Temperature - Uncorrected - Start	95 Degrees C
Temperature - Corrected - Start	95 Degrees C
Temperature - Uncorrected - End	95 Degrees C
Temperature - Corrected - End	95 Degrees C

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130420-1

SDG No.:

Batch Number: 388760 | Batch Start Date: 06/20/23 23:45 | Batch Analyst: Kuhns, Annamaria M

Batch Method: 7470A | Batch End Date: 06/21/23 01:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Hg_5%KMnO4 00182	MP_40Hg_IV 00159	MP_5K2S2O8 00089	MP_NaClHNO 00190
MB 410-388760/1		7470A, 7470A		20 mL	20 mL	3 mL		1.6 mL	1.2 mL
LCS 410-388760/2		7470A, 7470A		20 mL	20 mL	3 mL	0.5 mL	1.6 mL	1.2 mL
410-130420-I-2	MWR3-0623	7470A, 7470A	T	20 mL	20 mL	3 mL		1.6 mL	1.2 mL
410-130420-H-1	EB1-0623	7470A, 7470A	T	20 mL	20 mL	3 mL		1.6 mL	1.2 mL
410-130420-F-3	MWR2-0623	7470A, 7470A	T	20 mL	20 mL	3 mL		1.6 mL	1.2 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MT_HNO3_Fishe 00008	MT_SULF_FI 00019				
MB 410-388760/1		7470A, 7470A		0.5 mL	1 mL				
LCS 410-388760/2		7470A, 7470A		0.5 mL	1 mL				
410-130420-I-2	MWR3-0623	7470A, 7470A	T	0.5 mL	1 mL				
410-130420-H-1	EB1-0623	7470A, 7470A	T	0.5 mL	1 mL				
410-130420-F-3	MWR2-0623	7470A, 7470A	T	0.5 mL	1 mL				

Batch Notes	
Digestion Tube/Cup ID	2211204
Pipette/Syringe/Dispenser ID	s/500
Digestion Unit ID	11
Thermometer ID	3811
Temperature - Uncorrected - Start	95 Degrees C
Temperature - Corrected - Start	95 Degrees C
Temperature - Uncorrected - End	95 Degrees C
Temperature - Corrected - End	95 Degrees C
Reflux Cap ID	2204135
Pipette Tip Lot ID	f169949r

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

APPENDIX D

PERFORMANCE-BASED GROUNDWATER MONITORING REPORT: HYDROLOGIC SUMMARY (JANUARY 2023 THROUGH DECEMBER 2023)

PERFORMANCE-BASED GROUNDWATER MONITORING REPORT: HYDROLOGIC SUMMARY (DECEMBER 2022 – DECEMBER 2023)

Former Sinclair Refinery Site
Wellsville, New York

PREPARED FOR:

ATLANTIC RICHFIELD COMPANY

A BP affiliated company

PREPARED BY:

PARSONS

40 La Riviere Drive, Suite 122
Buffalo, New York 14202

March 2024

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Appendix A Monthly Manhole Elevations Compared to River Stage Estimations

ACRONYMS

ARC	Atlantic Richfield Company
CELA	Central Elevated Landfill Area
ft^3/s	cubic feet per second
ft msl	feet mean sea level
gpm	gallons per minute
GWCT	groundwater collection trench
MDS	main drainage swale
NYSDEC	New York State Department of Environmental Conservation
PBGM	Performance-based Groundwater Monitoring Plan
Q90	stream baseflow conditions
river	Genesee River
Site	Former Sinclair Refinery Site
OU-2	Operable Unit 2
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
URS	URS Corporation
WLCB	water level control berm

1. INTRODUCTION

This Performance-based Groundwater Monitoring (PBGM) report summarizes the effectiveness of the 3,200 feet long groundwater collection trench (GWCT) in achieving the performance criteria outlined in the PBGM Plan (URS, 2008) during the period of December 2021 through December 2022. The GWCT is located along the west side of the Genesee River (river) at the Former Sinclair Refinery Site (Site) in Wellsville, New York. The GWCT is a component of the Operable Unit 2 (OU-2) remedial strategy to reduce the flow of groundwater within the glacial drift aquifer to the river. This evaluation is based on glacial aquifer hydraulic characteristics (determined by synoptic water level measurements) and monitoring the operation of the GWCT using long-term continuous groundwater elevation trend data and manhole pumping rates.

1.1 BACKGROUND

A summary report for operation of the GWCT performance was submitted to the United States Environmental Protection Agency (USEPA) in July 2011, which presented the continuation of the GWCT evaluation program and summarized the hydraulic characteristics based on monthly synoptic water surveys conducted in 2010 and 2011, long-term continuous groundwater elevation trend data, and the operation of the GWCT (pumping rates, manhole pumping level changes, etc.). In addition, the report described what effects the Water Level Control Berm (WLCB), which was installed in the Main Drainage Swale (MDS), had on mitigating the groundwater seep located on the west bank of the MDS near Manhole G, and the effect it had on the groundwater flow regime in the vicinity of Manhole G. Data presented in the July 2011 report confirmed that the GWCT continued to provide Site-wide groundwater capture by pumping from six manholes (Manholes A through F; URS, 2008) located within the GWCT. Site-wide capture was possible by pumping manholes, preferential pathways in the GWCT, and a groundwater deflection zone located between the Central Elevated Landfill Area (CELA) and Manhole H caused by losing river reaches.

The GWCT performance has been evaluated using three independent means: 1) potentiometric surface evaluation from synoptic field measurements; 2) numerical analysis from a recalibrated groundwater flow model; and 3) long-term continuous hydraulic data from pressure transducers installed at the pumping manholes and selected piezometers/monitoring wells located within and outside the GWCT.

The first method was based on a potentiometric surface evaluation from synoptic field measurements. These results present insights to seasonal instances of groundwater conditions representing a snapshot of a transient hydrologic environment.

The second method was based on numerical analysis from a calibrated groundwater model. The modeling results present insights to groundwater conditions that are less constrained by limitations of the monitoring network because the model solves the continuity equation governed by flow dynamics.

The third method provides insights to the temporal relationship between groundwater pumping and river flow conditions, especially regarding pump settings to maintain groundwater capture at different hydro-periods and extreme climatic conditions where groundwater pumping becomes impractical.

Based on supporting results from these three technical approaches, groundwater recovery at Manholes A through G will provide 100% Site groundwater capture at the site boundary (from piezometer T-1 to the CELA, approximately 3,300 feet).

This report is a continuation of the GWCT evaluation program and summarizes the hydrological characteristics based on synoptic groundwater elevation surveys conducted in April and

October2023, long-term continuous groundwater elevation trend data, and the operation of the GWCT (pumping rates, manhole pumping level changes, etc.).

1.2 REMEDIAL GOAL

The overall remedial goal for the Former Sinclair Refinery Operable Unit 2 (OU-2; Site) is to reduce the flow of groundwater within the glacial drift aquifer to the Genesee River. Currently, this goal is achieved by capturing Site groundwater by extracting (pumping) the groundwater from a 3,200 feet long GWCT. The GWCT has eight extraction points or manholes. The GWCT was constructed in such a fashion that it is feasible to intercept groundwater flow and hydraulically capture groundwater prior to treatment/discharge to the river.

As described in the PBGM (URS, 2008), the performance criterion for evaluating the overall performance of the GWCT is as follows:

- At a minimum, a groundwater divide between the GWCT and the river must be maintained. Achieving this criterion demonstrates that the groundwater gradient between the GWCT and the river has been reversed (gradient sloping towards the GWCT) and that groundwater flow is not occurring across the GWCT.

Synoptic Site-wide groundwater elevation measurements collected from the GWCT (manholes and piezometers), the Site monitoring well network, and river staff gauge locations were evaluated to assess the effectiveness of the GWCT in capturing Site groundwater. The evaluation discussed in this report also included a review of long-term continuous groundwater elevation trend data collected at each manhole and trench piezometer and manhole pumping rates.

Future evaluation of data may change the focus of the remedial effort from creating a groundwater divide between the collection trench and the river to focus more on capture of concentrations of groundwater constituents greater than target levels. Any changes to remedial goals will be completed with concurrence of the USEPA and NYSDEC.

2. HYDROLOGIC CONDITIONS - 2023

Site-wide synoptic water level measurements (surveys) were conducted in April and October 2023. The monitoring network is comprised of 79 monitoring wells/piezometers, 1 river gauge, 8 manholes, 9 piezometers in the GWCT, and 4 surface water gauges in the Main Drainage Swale (**Figure 1**). The water levels collected in the synoptic surveys represented a range of hydrologic conditions for the area.

Figure 2 presents the water survey dates and the hydrograph of the Genesee River mean daily stream flows since the PBGM program began in June 2008. Additionally, it presents the mean daily flow statistic based on 49 years of historical flows. Throughout most of 2023, the hydrologic conditions in the river remained at below normal flow conditions, with exception to December of 2023 where river flow peaked at 722 cubic feet per second (ft^3/s) which exceeded normal flow conditions

The synoptic water level survey events for the 2023 period occurred when the river mean daily stream flows at the USGS gauge in Wellsville ranged from 321 ft^3/s (April 14, 2023) to 50.4 ft^3/s (October 19, 2023). **Figure 3** displays the flow duration curve of the Genesee River based on mean daily streamflow between October 1972 and December 2 (USGS National Water Inventory System) and the Site hydrologic surveys conducted in April and October 2023.

Generally, stream flows that occur between 40 percent (300 ft^3/s) and 60 percent (161 ft^3/s) of the flow duration can be considered as normal average conditions as illustrated in **Figure 3**. Stream flows that are less than 40 percent are characteristic of “wetter” conditions while flows that are greater than 60 percent are characteristic of “drier” conditions as indicated in **Figure 3**. Stream baseflow (Q90) is estimated to be less than 41 ft^3/s. The stream flows that were observed during the synoptic water level survey events conducted in April and October 2023 are plotted to show the range of hydrologic conditions evaluated for the GWCT performance. The hydrologic conditions represented in the synoptic events ranged from wetter than normal conditions on April 14, 2023 to drier conditions on October 19, 2023.

3. SYNOPSIS OF GROUNDWATER CAPTURE

The following sections provide an overview of the groundwater capture conditions observed during the months of April and October 2023. Potentiometric surface maps discussed in this section are included in the Figure section of this report. A summary of groundwater capture based on synoptic groundwater elevation measurements is presented in **Table 1.**

3.1 APRIL 2023

Water levels measured on April 16, 2023 represented wetter conditions (as defined by the flow duration curve in **Figure 3**). The river streamflow was 321 ft^3/s, approximately 38 percent of the flow duration. The GWCT was pumped at Manholes A, B, C, D, F, and G at a total average pumping rate of approximately 153 gallons per minute (gpm). The potentiometric surface contours show that Site groundwater is captured by the GWCT pumping system in Manholes A, B, C, D, F, and G during April 2023 (**Figure 4)**.

3.2 OCTOBER 2023

Water levels measured on October 19, 2023, represented drier conditions (streamflow 50.4 ft^3/s) compared to normal river flow conditions, at approximately 86 percent of the flow duration. The GWCT was pumped at Manholes A, B, C, D, F, and G at a total average pumping rate of approximately 92 gpm. The potentiometric surface contours show that Site groundwater is captured by the GWCT pumping system in Manholes A, B, C, D, F, and G during October 2023 (**Figure 5)**.

4. GWCT OPERATIONS

4.1 DECEMBER 2022 THROUGH DECEMBER 2023

With some exceptions described in Section 5 of the 2022 Annual Report of OM&M, the GWCT was continuously operated during the months of December 2022 through December 2023, with pumping of Manholes A, B, C, D, F, and G . Manholes H and E remained idled.

Based on review of the long-term continuous groundwater level elevation trend data (December 15, 2022 through December 31, 2023) collected from each manhole and trench piezometer, the following was observed. These observations are based on the groundwater elevation trend data presented in **Figures 6** through **14**. The data presented on these figures represents all data collected in 2023 with an additional 17-day overlap (December 15-31, 2022) of the 2022 PBGM report data for consistency and comparison of the previous data.

The GWCT (Manholes A, B, C, D, F, and G) was operational on average of 82.4% of the time during the evaluation time period. A summary of the operational run time is provided below:

Manhole ID	Run Days	Off Days	Run Time
MH-A	352.7	12.3	96.6%
MH-B	346.5	18.5	94.9%
MH-C	352.7	12.3	96.6%
MH-D	352.7	12.3	96.6%
MH-E	0.0	365.0	0.0%
MH-F	352.7	12.3	96.6%
MH-G	347.1	17.9	95.1%
MH-H	0.2	364.8	0.1%
2023 Average Run Time (not including MH-H)			82.4%

Notes:
1: GWCT system (Manholes A, B, C, D, F, and G) shutdown for approx. 12 days for Sed pond cleaning and SF wetland renovations June 9 thru June 21, 2023.
2: GWCT system (Manholes MH-A thru MH-G) shutdown due to Village power outage July 11 thru July 12, 2023.
3: MH-B and MH-G shutdown December 12 thru December 18, 2023 for system gpm decrease due to flow constriction at vertical flow splitter structure.
4:

4.1.1 Float switch settings December 2022 through December 2023

The pumps in the GWCT are configured to maintain a specific groundwater drawdown in the manholes. The float switch settings and average drawdown maintained from December 15, 2022 through December 31, 2023 in the manholes are summarized below:

Manhole ID	Pump High Level Switch Setting (feet msl)	Pump Low Level Switch Setting (feet msl)	Average Groundwater Drawdown Elevation[1] (feet msl)	Pump Cycle Amplitude (feet)
A[2]	1478.5	1477.0	1477.6	1.5
B[2]	1478.5	1477.5	1479.0	1.0
C[2]	1479.0	1477.0	1478.4	2.0
D[2]	1484.0	1483.0	1483.5	1.0
E	1485.4	1483.8	1487.9	1.6
F[2]	1484.1	1482.5	1483.7	1.6
G[2]	1488.6	1486.7	1488.1	1.9
H	N/A	N/A	1492.4	N/A

Note that precipitation and river flow were above normal flow conditions during 2021
N/A = not applicable
msl = mean sea level
Note 1: Average Groundwater Drawdown Elevation is calculated using the average WL elevation from Manhole transducers from December 15, 2022 through December 31, 2023, unless otherwise noted.
Note 2: Transducer WL elevations from June 9-21, 2023 (shutdown due to wetland restoration), were not used to calculate average groundwater drawdown elevation in MH-A-D, F, and G.

Piezometers located near each manhole in the GWCT exhibit drawdown due to constant pumping activities. The average drawdown maintained from December 15, 2022 through December 31, 20234 in the piezometers are summarized below:

Manhole ID	Associated Manhole	Average Groundwater Elevation (feet msl)	Static Water Level Conditions [1] (feet msl)	Average Groundwater Drawdown (feet)
TPZ-01	A	1481.9	1482.9	1.0
TPZ-02	A/B	1482.1	1483.4	1.3
TPZ-03	B/C	1479.8	1481.4	1.6
TPZ-04	C/D	1481.4	1482.5	1.1
TPZ-05	D/E	1483.5	1483.6	0.1
TPZ-06	E/F	1484.2	1484.5	0.3
TPZ-07	F/G	1485.0	1486.2	1.2
TPZ-08	G/H [2]	1487.7	1487.6	0.1
TPZ-09	H [2]	1486.1	1485.9	0.2

msl = mean sea level
Note 1: Water level elevation readings collected from transducer data on June 21, 2023 at 9:00, the reading prior to system start-up. System start-up occurred after a 11-day shutdown of GWCT on June 10, 2023.
Note 2: Manhole H (MH-H) not required to be pumped.

4.1.2 Summary of GWCT Operations

- Groundwater recovery pumps installed in Manholes A, B, C, D, F, and G successfully lowered groundwater elevations to pump float switch set points and the pumps cycled on/off as set. Manhole elevation patterns and significant operation events for Manholes A through H are illustrated on **Figures 6** through **14**.
- Manhole H is idle per PBGM Plan, except for annual sampling..
- The pump in MH-E was shut down due to iron fouling in 2021 and is still not operational.

- The GWCT system (Manholes MH-A through MH-G) was shut down for wetland renovations from June 9 through June 21, 2023.
- MH-B shut down for approximately 2 hrs. May 16, 2023 and August 24, 2023 for pump replacement.
- GWCT system (Manholes MH-A thru MH-G) shutdown due to Village power outage July 11 thru July 12, 2023.
- MH-B and MH-G shutdown December 12 thru December 18, 2023 for system gpm decrease due to flow constriction at vertical flow splitter structure.
- Average monthly manhole groundwater elevations were compared to calculated river stage elevations based on stream flow data from the USGS gauging station located downstream on the river (Station No. 04221000). A summary table of the comparison of these elevations is provided as **Table 2**. The elevation estimates and river flow data compared to monthly averages for each manhole are provided in **Appendix A**.

5. SUMMARY AND CONCLUSIONS

5.1 SUMMARY

The site-wide synoptic surveys conducted in April 2023 and October 2023, evaluated groundwater conditions in climatic settings that represented average conditions to wetter than average conditions compared to average river flow. The hydrologic observations confirm previous conclusions (based on 2011-2022 data) that river conditions affect the onsite glacial aquifer groundwater elevation and flow. The required system pumpage to maintain Site-wide groundwater capture ranges widely between wet and dry climatic conditions. On this general basis, **Table 1** summarizes the groundwater capture characteristics, the total GWCT system pumpage, and river conditions during the April and October monitoring events.

5.1.1 Groundwater Capture - December 2022 through December 2023

Groundwater capture was attained in both synoptic events recorded in 2023. During this time, synoptic surveys were completed on April 16, 2023and October 19, 2023.

Data received for the synoptic events recorded on April 16, 2023 and October 19, 2023 represented climatic conditions that represented wetter than average conditions and drier than average conditions compared to average river flows observed in the historical record (**Figure 3**). Within the upper range of these climatic conditions, groundwater capture was attained throughout the extent of the GWCT.

5.2 CONCLUSIONS

Based on the December 2022 to December 2023 hydrologic data, the following conclusions have been developed:

- The GWCT pumping system has achieved the performance criteria outlined in the PBGM Plan;
    - Groundwater flow in the impacted glacial drift aquifer to the Gensee River has been reduced by the GWCT. A groundwater divide between the GWCT and the river was maintained in 2023 and it appears that groundwater flow is not occurring across the GWCT.
    - Actual elevation data collected from the GWCT (sumps and piezometers), selected groundwater monitoring wells, and river staff gauges were compared. The GWCT sumps and piezometers and selected monitoring wells serve as the Point of Demonstration (POD) locations.
    - Additionally, data was collected in April and October 2023 from the site wide monitoring well network to confirm the modeled predictions in the 2008 PBGM Plan (URS). The April and October site wide events were completed during conditions ranging from drier than normal to wetter than normal conditions based on the flow duration curve **(Figure 3**). Potentiometric surface contours show that Site groundwater is captured by the GWCT pumping system during both events (**Figures 4 and 5**).
- The GWCT pumping rates to achieve site-wide groundwater capture are not dynamic. The GWCT pumping rates vary widely in response to the river stage. The GWCT pumping rates were varied as necessary to provide site-wide groundwater capture throughout 2023;

- When the manhole pumping is maintained within the operational thresholds, groundwater capture was attained throughout the extent of the GWCT (**Table 1** and **Table 2**).
- The GWCT manholes A, B, C, D, F, and G were maintained with the intent to limit downtime. During 2023 an average uptime percentage of 82.4% was maintained. Some downtime was for scheduled maintenance, such as sedimentation pond cleaning and flow cell replacement. However, there was unscheduled downtime which occurred in 2023. This included pump replacements, pump malfunctions, local power outages, and iron buildup and removal within conveyance lines. Section 4.1.2 provides details of pump downtimes.
- Manhole E was pumping ineffectively in 2021 due to effluent pipe restriction caused by iron sediment buildup within the conveyance line. It remained shutdown in 2023, as water levels were monitoried for long term trends..
- The GWCT system (Manholes A, B, C, D, F, and G) shutdown for approx. 12 days for sedimentation pond cleaning and SF wetland renovations June 9 thru June 21, 2023.The groundwater recovery pump in Manhole G typically operates constantly due to the influence of the WLCB pool providing recharge to the sump/trench. During times of moderately elevated or higher river conditions, the upper set point may not be achieved.
- These conclusions have verified the previous conclusions made in the 2022 PBGM: Report: Hydrologic Summary (Parsons, 2023) and in the January 2010 report titled, "*Evaluation of the Groundwater Collection Trench Hydraulics and Groundwater Capture Efficiency Report*" (URS, 2010).

6. RECOMMENDATIONS

Long-term continuous groundwater level elevation trend data collected from each manhole and trench piezometer (December 2022 through December 2023), synoptic site-wide groundwater elevation measurements (April 2023 and October 2023), and manhole pumping rates were reviewed. The following recommendations are based on this data review and historical GWCT performance data presented in previous reports:

6.1 GWCT OPERATIONS

- Continue to recover groundwater from Manholes A through D, F and G, as currently operated.
- Perform necessary operation and maintenance tasks and resume pumping at Manhole E.
- Restablish swale staff gauges SG-05 and SG-06R.
- Continue to conduct site-wide transducer data downloads on a monthly basis (trench piezometers and manhole elevations). Conduct monthly inspections of desiccant on transducer cable ports and replace as needed.
- Continue to conduct synoptic groundwater elevation surveys semi-annually.
- Synoptic surveys should not be performed during periods of time when the system is down for maintenance activities.
- Adjust manhole sump float switch settings (high and low-level switch elevation) to adjust/maximize trench performance based on monthly and semi-annual data review.

7. REFERENCES

Parsons, 2022. Performance-Based Groundwater Monitoring Report: Hydrologic Summary (December 2021 – December 2022); Former Sinclair Refinery Site, Wellsville, NY: December 2022.

URS, 2008. Revised Appendix 13 – Performance Based Groundwater Monitoring Plan, Final (100%) Design Report Phase II-2 Remediation at Operable Unit 2; Former Sinclair Refinery Site, Wellsville, NY: Presentation to US Environmental Protection Agency, Region 2 and New York State Department of Environmental Conservation, July 2008.

URS, 2010. Evaluation of the Groundwater Collection Trench Hydraulics and Groundwater Capture Efficiency Report. Former Sinclair Refinery Site, Wellsville, NY. Prepared for Atlantic Richfield Company (a BP affiliated Company), Prepared by URS Corporation, Cleveland, Ohio.

TABLES

Date	Genesee River Streamflow (ft^3/s)	GWCT Total Pumpage (gpm)	Groundwater Capture Attained	Causes of No Attainment (GWCT Pumping Operations)	Causes of No Attainment (Natural Conditions)
April 14, 2023	321	153	yes	Not Applicable (NA)	NA
October 19, 2023	50.4	91.9	yes	NA	NA

WELLSVILLE, NEW YORK

PARSONS

March 2024

Summary of Groundwater Capture Based on Synoptic Groundwater Elevation Measurements April 2023 and October 2023

TABLE 1

Groundwater Capture Attained (Manhole Water Elevation Lower Than Calculated River Elevation) (yes/no)								
Date	**MH-A**	**MH-B**	**MH-C**	**MH-D**	**MH-E**	**MH-F**	**MH-G**	**MH-H**
Jan-23	yes	yes	yes	yes	no[2]	yes	yes	N/A[1]
Feb-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Mar-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Apr-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
May-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Jun-23	no[3]	no[3]	no[3]	no[3]	no[2/3]	no[3]	no[3]	N/A
Jul-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Aug-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Sep-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Oct-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Nov-23	yes	yes	yes	yes	no[2]	yes	yes	N/A
Dec-23	yes	no[4]	yes	yes	no[2]	yes	no[4]	N/A

[1]No-N/A- Manhole H (MH-H) does not pump any groundwater, therefore does not lower the water elevation.
[2]No- MH-E has remained shutdown due to iron fouling since October 19, 2021.
[3]No- Manhole A through G shut off to stop throughput due to sedimentation pond cleaning and wetland renovations on June 9, 2023 and restarted on June 21st 2023.
[4]No- MH-B and MH-G shutdown December 12 thru December 18, 2023 for system gpm decrease due to flow constriction at vertical flow splitter structure.

FIGURES

Figure 1:
Hydrologic Monitoring Network

Created by:	Checked by:	Project Manager:
EAL Date: 3/15/2024	JWS	Allyson Kriney

Project Number: 452150

PARSONS
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Legend
- MW/PZ Wells
- River Gages
- Water Level Control Berm
- Mid-slope sheet pile wall
- Water
- Groundwater Collection Trench

0 125 250 375 500 1,000 Feet

0 0.025 0.05 0.075 0.1 0.2 Miles

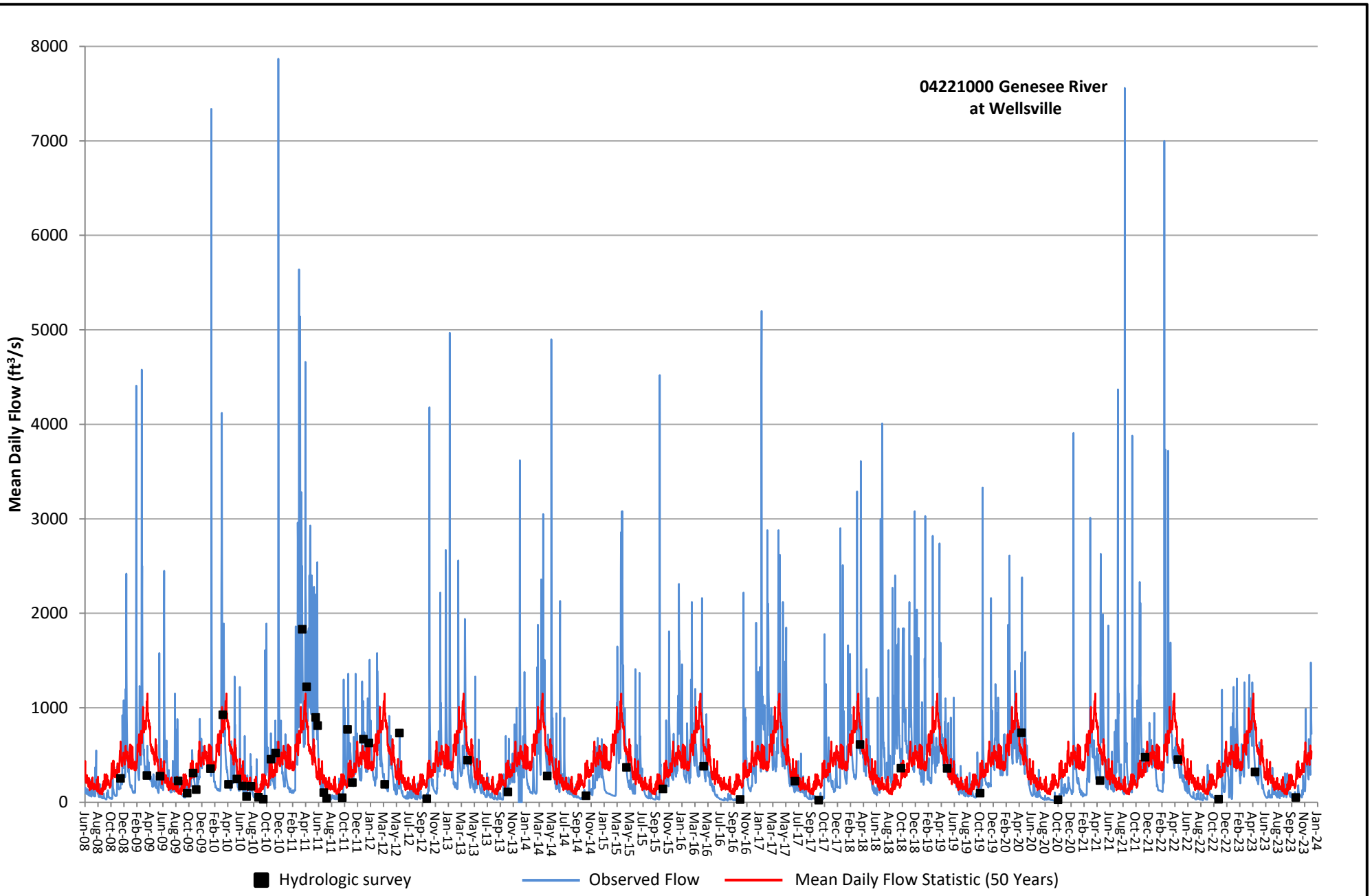
N

Genesee River

Main Drainage Swale

CELA

Document Path: \\nybuf03fs01\PCTGprojects\BP OE\Wellsville\Reports\PBGM Report 2023\ArcPro\Wellsville - PBGM 2022.aprx



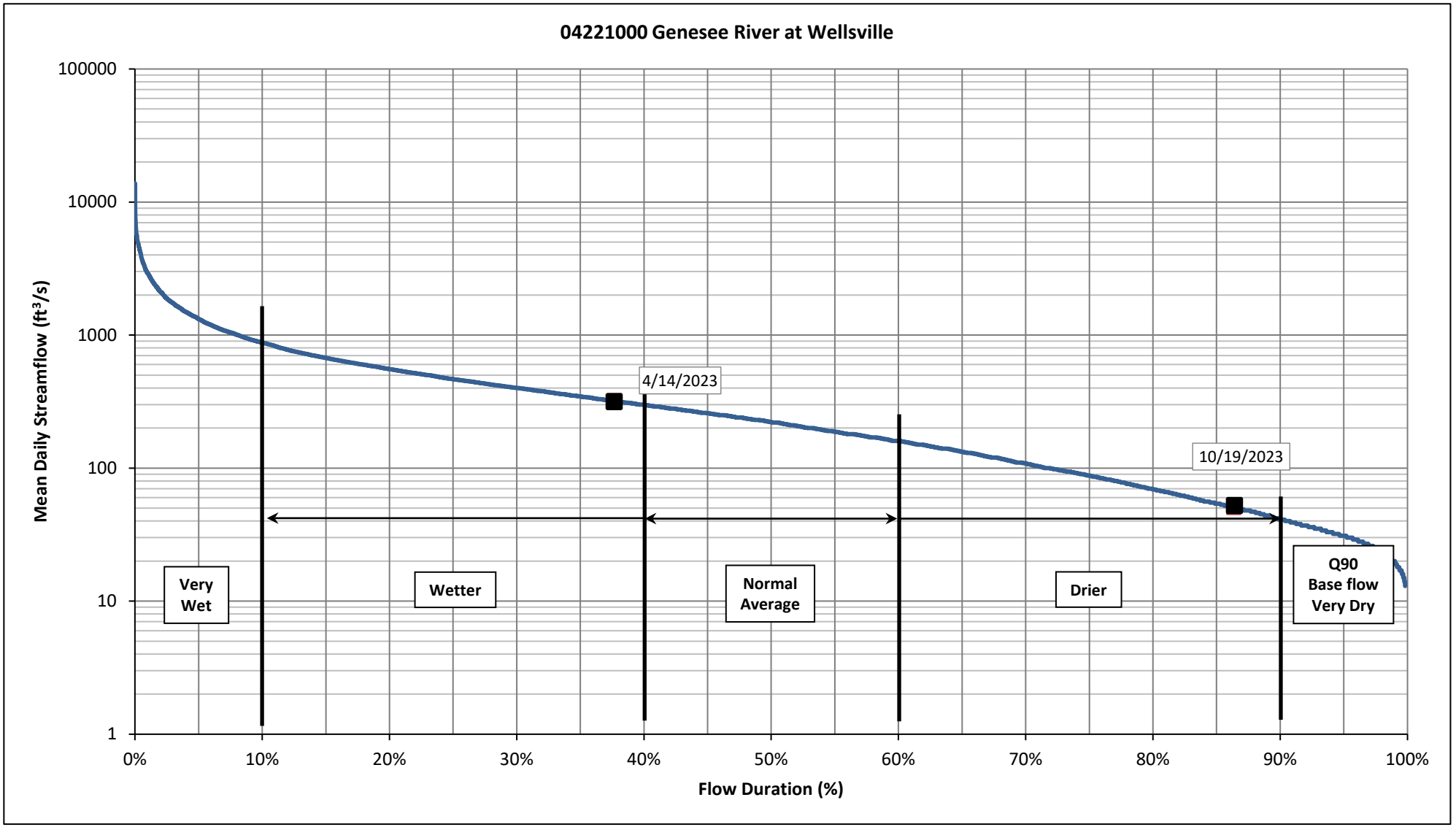
Note: Survey of December 19, 2013 not shown due to ice at USGS gage 04221000

WELLSVILLE, NEW YORK

PARSONS March 2024

Genesee River Hydrograph and Site Hydrologic Surveys June 2008 – December 2023

FIGURE 2



Flow duration evaluation based on 18,211 mean daily stream flows measured from October 1, 1972 to December 31, 2023.

WELLSVILLE, NEW YORK PARSONS March 2024	**Genesee River Flow Duration and Site Hydrologic Surveys April 2023 and October 2023**	FIGURE 3

N

Genesee River

Main Drainage Swale

CELA

0 125 250 375 500 1,000 Feet

0 0.025 0.05 0.075 0.1 0.2 Miles

Notes:
Genesee River discharge rate on April 14, 2023 was 320 cfs.
River gauge elevations calculated using equations listed in Appendix A-Table A for Genesee River Discharge rate for April 14, 2023.

Figure 4:
Potentiometric Surface Contours of the Glacial Aquifer Under Pumping Conditions: April 14, 2023

Created by: EAL Date: 3/15/2024	Checked by: JWS	Project Manager: Allyson Kriney
Project Number: 452150		

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Legend

- Groundwater Contours (ft AMSL | Apr. 2023)
- MW/PZ Wells April 14, 2023
- River Gage

Site Features

- Water Level Control Berm
- Mid-slope sheet pile wall
- Water
- Groundwater Collection Trench

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Notes:
Genesee River discharge rate on October 19, 2023 was 50.4 cfs.
River gauge elevations calculated using equations listed in Appendix A-Table A for Genesee River Discharge rate for October 19, 2023.

Figure 5:
Potentiometric Surface Contours of the Glacial Aquifer Under Pumping Conditions: October 19, 2023

Created by: EAL Date: 3/15/2024	Checked by: JWS	Project Manager: Allyson Kriney
Project Number: 452150		

PARSONS
40 La Riviere Drive, Suite 122
Buffalo NY 14202
(716) 541-0752

Legend
- Groundwater Contours (ft AMSL | Oct. 2023)
- MW/PZ Wells October 19, 2023
- River Gage

Site Features
- Water Level Control Berm
- Mid-slope sheet pile wall
- site_water_lines
- Water
- site_base
- Groundwater Collection Trench

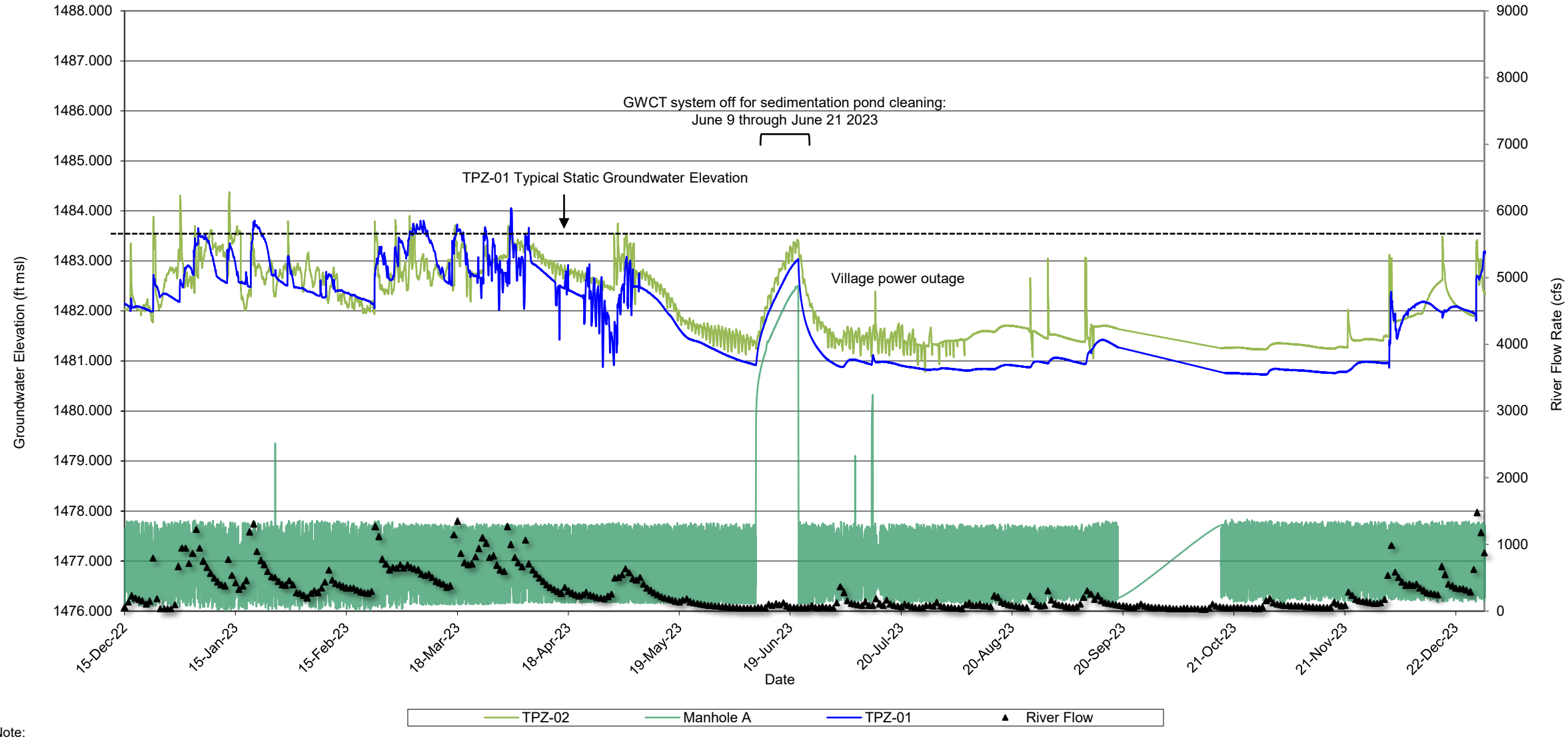
Site Features
- Water Level Control Berm
- Mid-slope sheet pile wall
- Water
- Groundwater Collection Trench

0 125 250 375 500 1,000 Feet
0 0.025 0.05 0.075 0.1 0.2 Miles

N

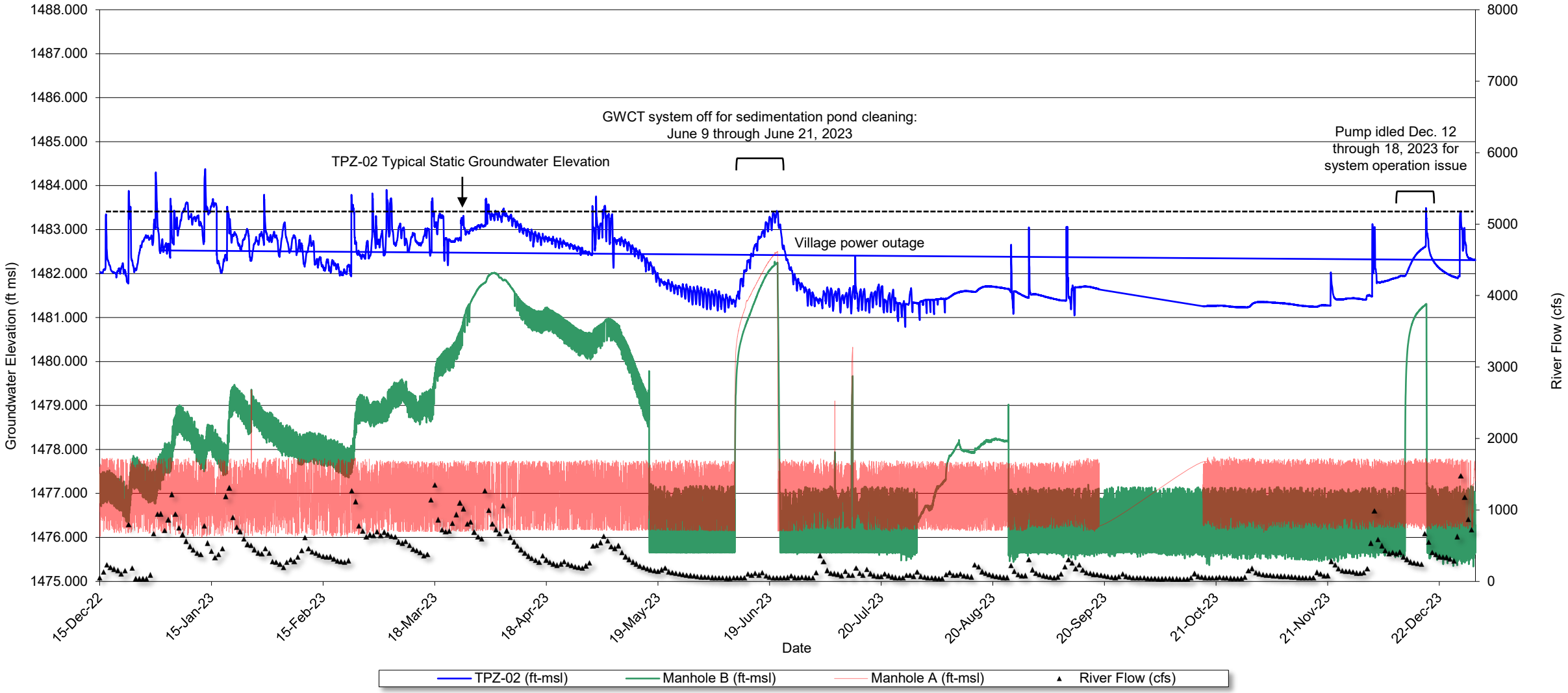
Genesee River
Main Drainage Swale
CELA

Document Path: \\nybuf03fs01\PCTGprojects\BP OEL\Wellsville\Reports\PBGM Report 2023\ArcPro\Wellsville - PBGM Report 2023.aprx



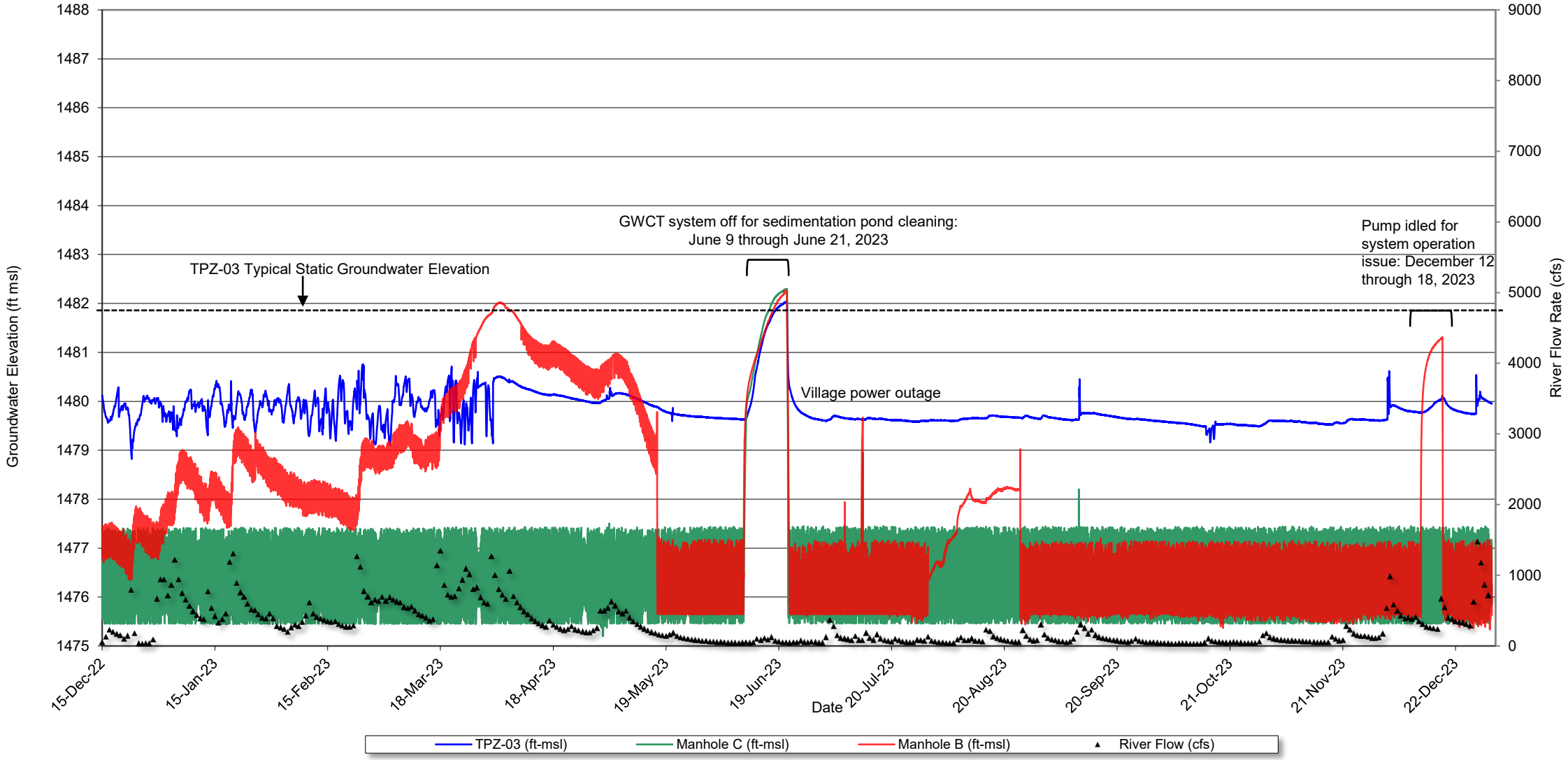
Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE, NEW YORK PARSONS March 2024	**TPZ-01, Manhole A, and TPZ-02 Groundwater Elevation Trends**	**FIGURE 6**



Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE, NEW YORK PARSONS March 2024	**Manhole A, TPZ-02, and Manhole B Groundwater Elevation Trends**	**FIGURE 7**

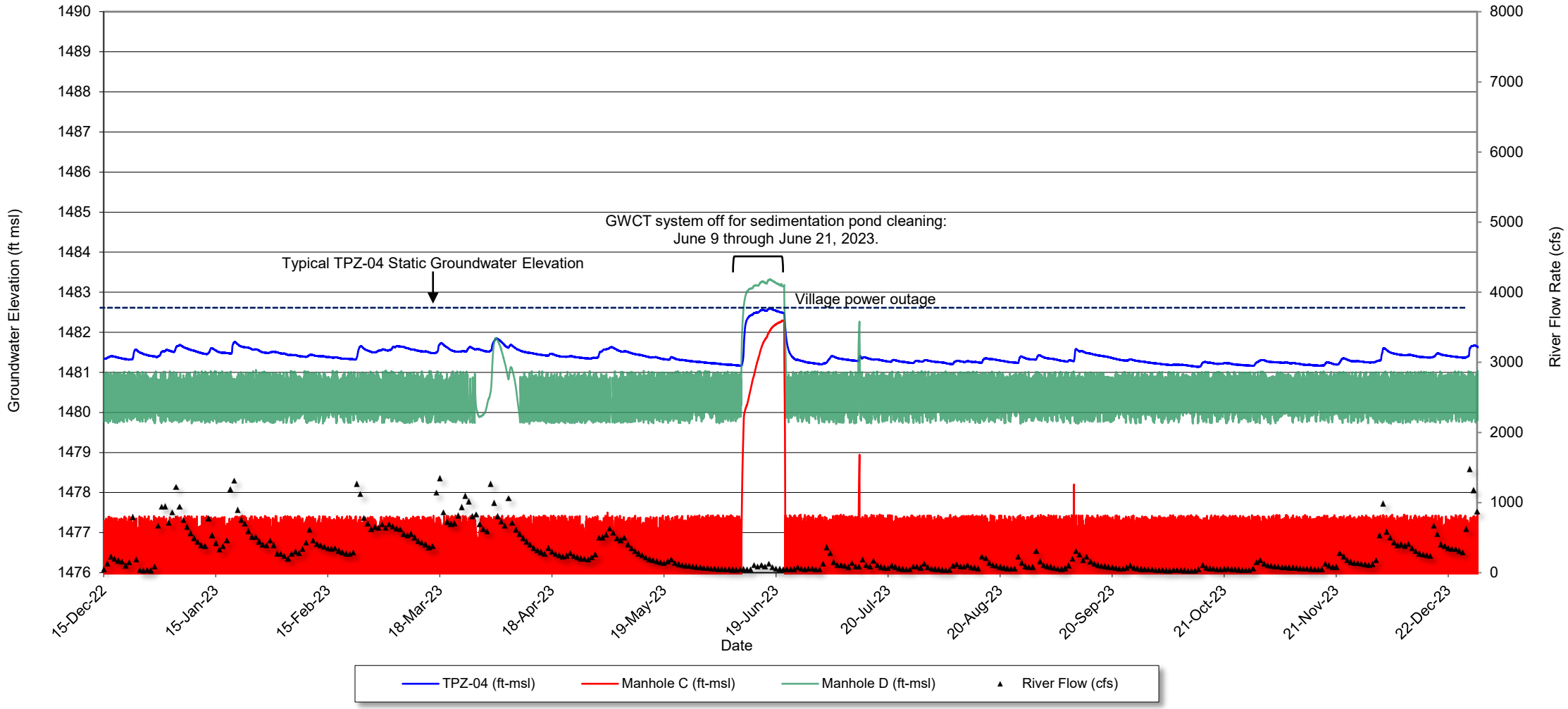


Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE,
NEW YORK
PARSONS March 2024

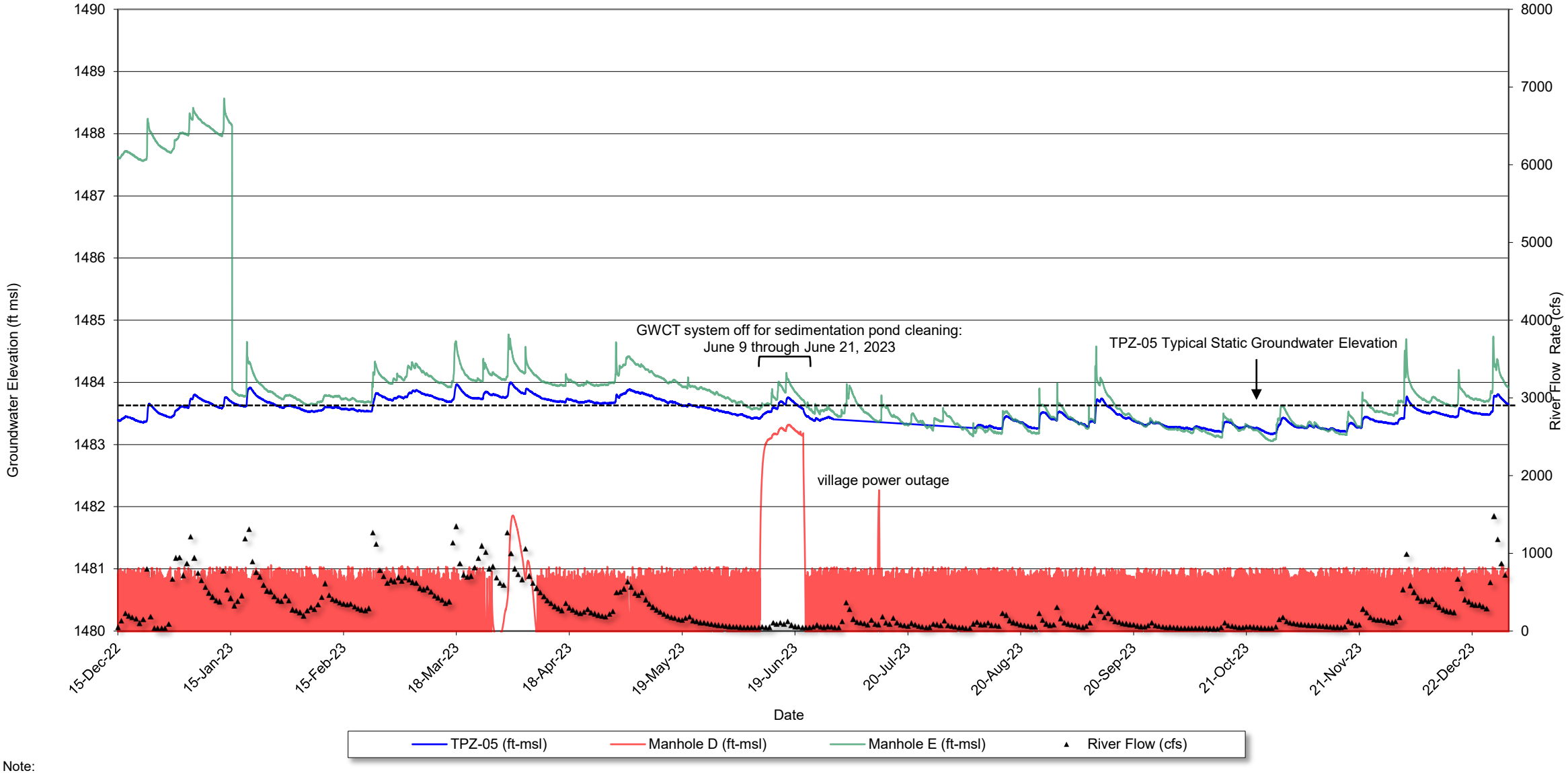
Manhole B, TPZ-03, and Manhole C Groundwater Elevation Trends

FIGURE 8



Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE, NEW YORK PARSONS March 2024	**Manhole C, TPZ-04, and Manhole D Groundwater Elevation Trends**	**FIGURE 9**



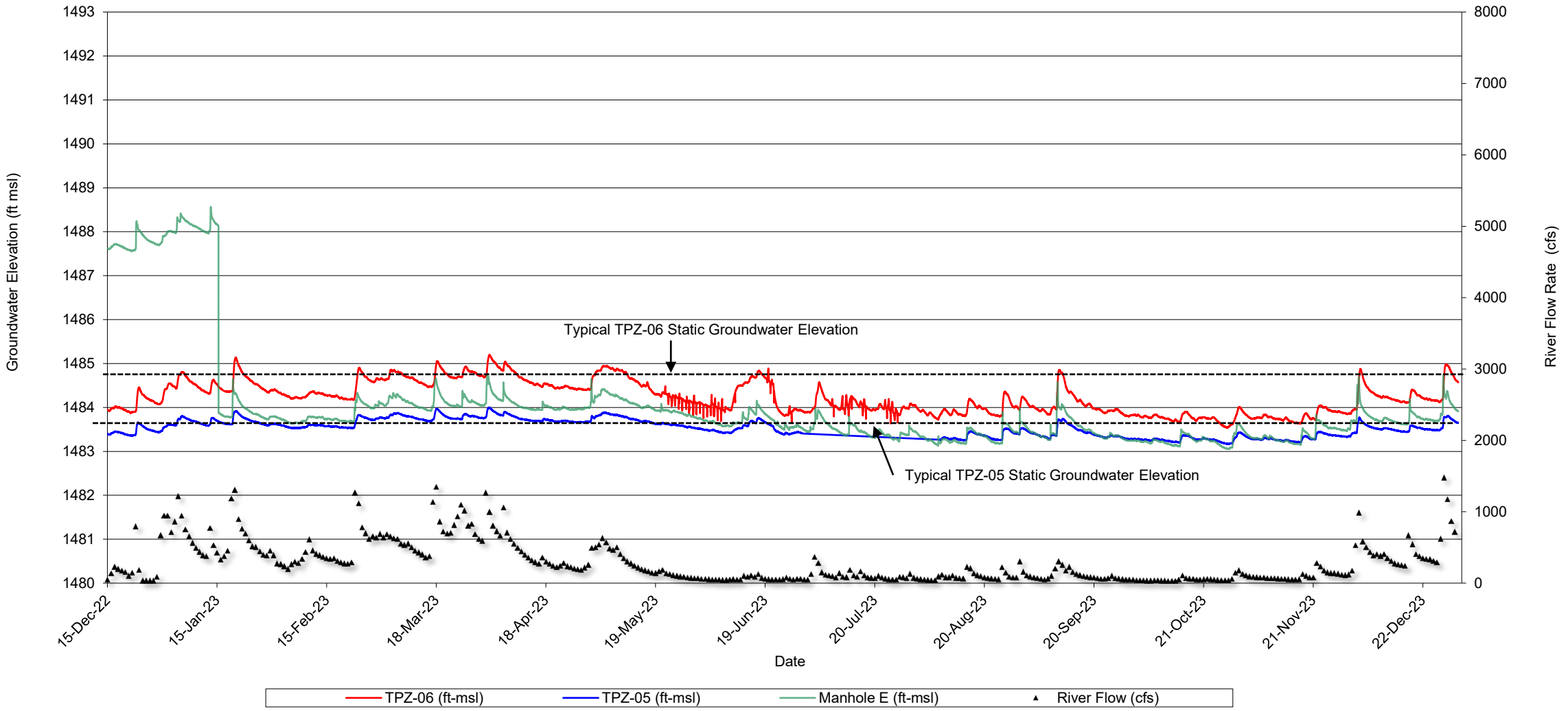
Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE,
NEW YORK

PARSONS March 2024

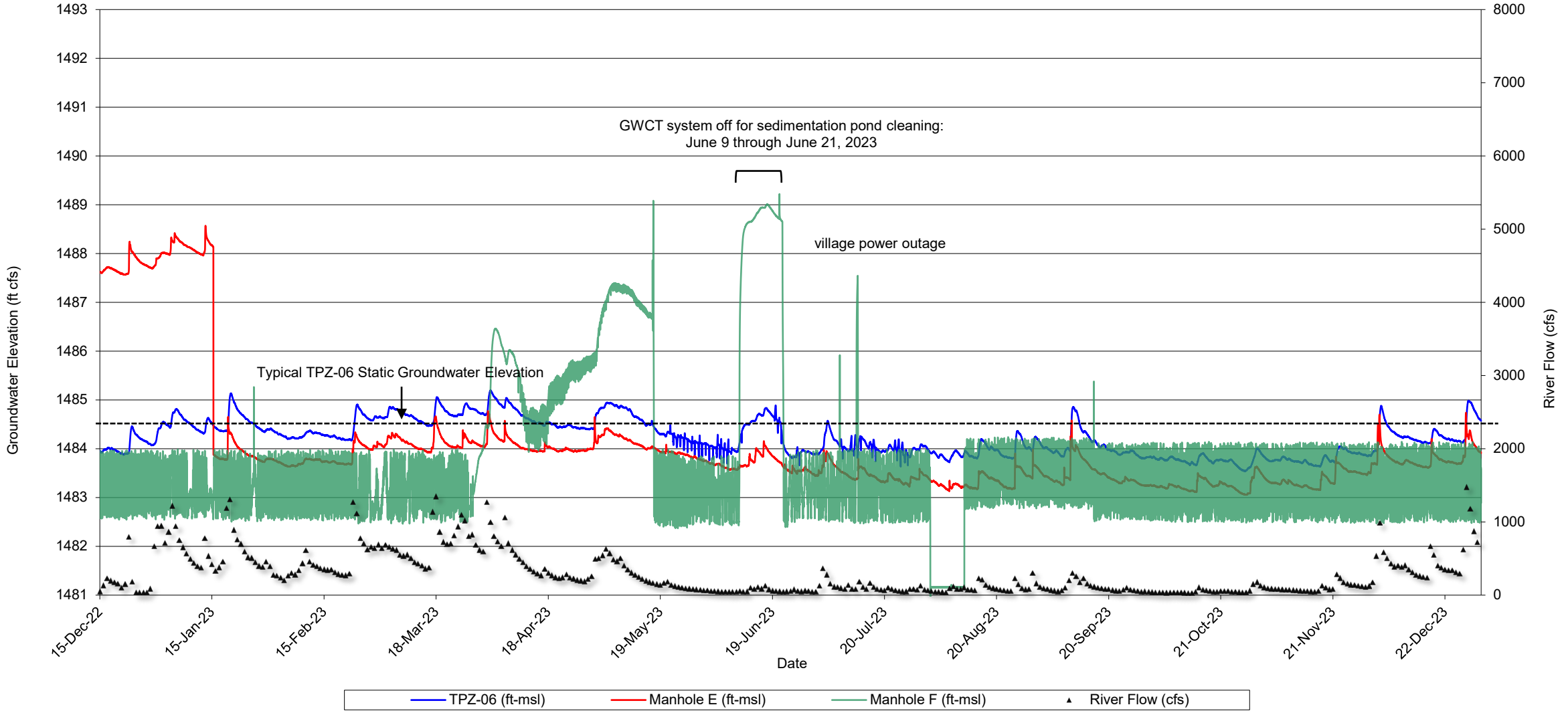
Manhole D, TPZ-05, and Manhole E Groundwater Elevation Trends

FIGURE 10



Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE, NEW YORK PARSONS March 2024	**TPZ-05, Manhole E, and TPZ-06 Groundwater Elevation Trends**	**FIGURE 11**

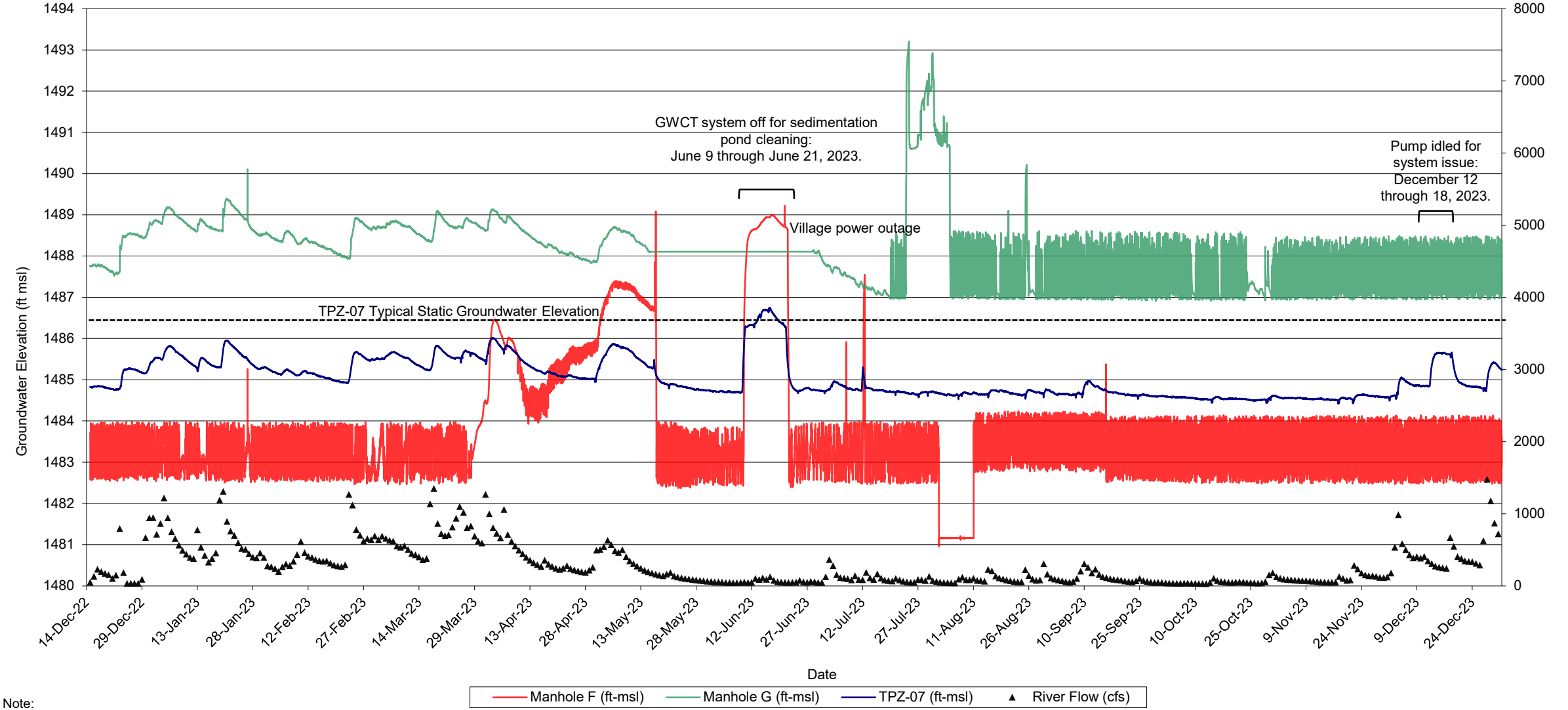


Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE,
NEW YORK
PARSONS March 2024

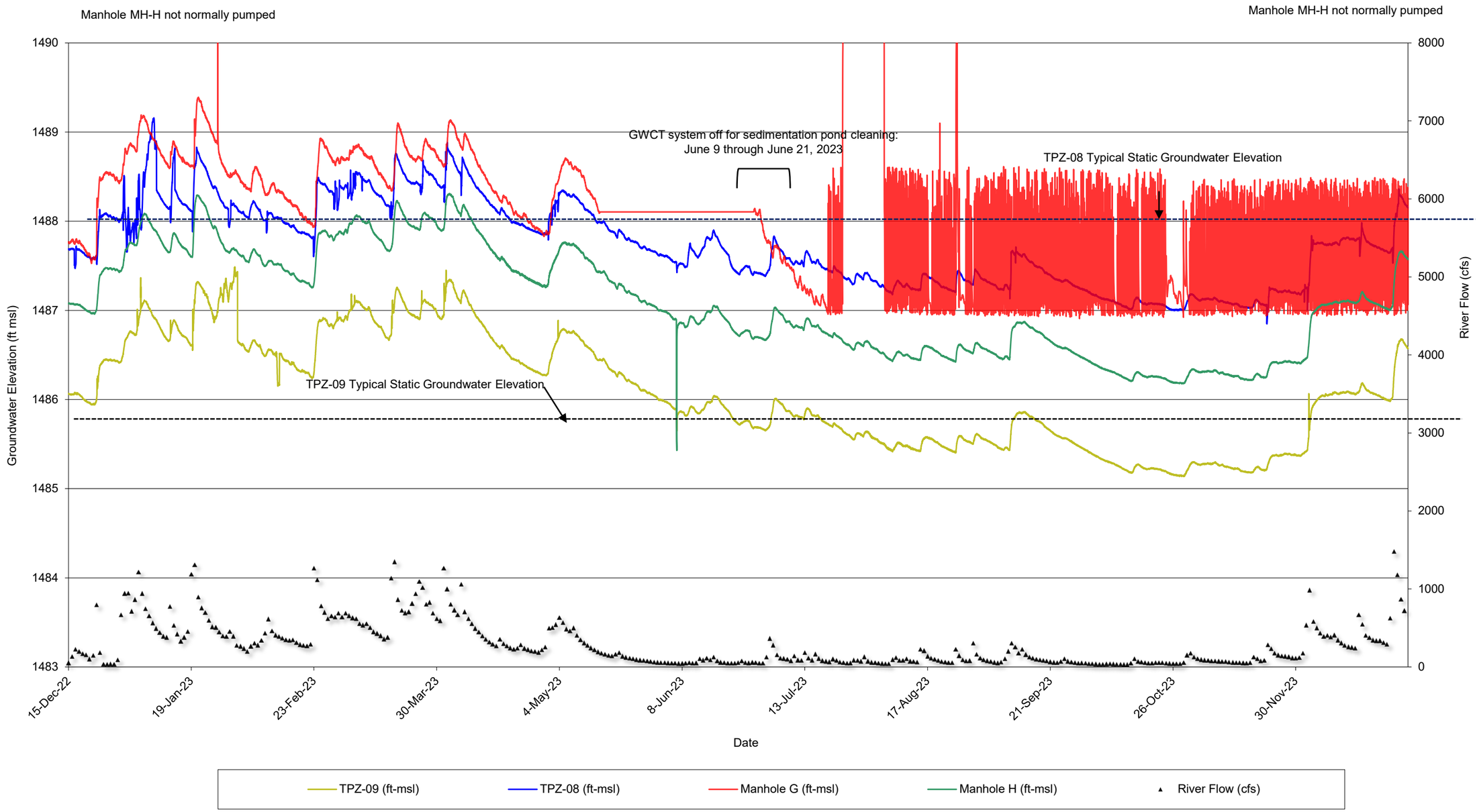
Manhole E, TPZ-06, and Manhole F Groundwater Elevation Trends

FIGURE 12



Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE, NEW YORK PARSONS March 2024	**Manhole F, TPZ-07, and Manhole G Groundwater Elevation Trends**	**FIGURE 13**



Note:
Genesee River flow is observed mean daily flow measured at USGS Gage 0422100 located at Wellsville, NY.
Static Groundwater elevations taken from TPZ water level elevations after 14-day shutdown of GWCT on June 9, 2023.

WELLSVILLE, NEW YORK PARSONS *March 2024*	**TPZ-08, Manhole G, TPZ-09, and Manhole H Groundwater Elevation Trends**	**FIGURE 14**

APPENDICIES

2023 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table A: Calculated Site Gage Station River Elevations

Date	Genesee River Mean Monthly Flow (ft^3/sec) (Notes 1 and 2)	Site Gage Stations (see Figure A for station locations) (Notes 3, 4 and 5)								
		RG08-01	RG08-02	RG08-03	RG08-04	RG08-05	RG08-06	RG08-07	RG08-08	RG08-09
Jan-23	640.3	1481.54	1481.56	1482.53	1484.82	1484.82	1485.09	1486.52	1486.23	1492.25
Feb-23	446.5	1481.07	1481.27	1482.01	1484.71	1484.73	1484.97	1486.21	1486.14	1491.90
Mar-23	698.7	1481.68	1481.65	1482.69	1484.84	1484.84	1485.12	1486.62	1486.25	1492.36
Apr-23	448.8	1481.08	1481.27	1482.01	1484.71	1484.73	1484.97	1486.22	1486.14	1491.91
May-23	263.2	1480.63	1480.99	1481.51	1484.55	1484.60	1484.79	1485.92	1486.01	1491.57
Jun-23	63.3	1480.15	1480.69	1480.97	1484.13	1484.24	1484.31	1485.60	1485.65	1491.21
Jul-23	111.4	1480.27	1480.77	1481.10	1484.30	1484.38	1484.50	1485.68	1485.79	1491.30
Aug-23	104.1	1480.25	1480.76	1481.08	1484.28	1484.36	1484.47	1485.67	1485.77	1491.29
Sep-23	108.0	1480.26	1480.76	1481.09	1484.29	1484.37	1484.49	1485.67	1485.78	1491.29
Oct-23	55.6	1480.13	1480.68	1480.95	1484.09	1484.21	1484.26	1485.59	1485.61	1491.20
Nov-23	105.8	1480.25	1480.76	1481.09	1484.28	1484.37	1484.48	1485.67	1485.78	1491.29
Dec-23	488.3	1481.17	1481.33	1482.12	1484.74	1484.75	1485.00	1486.28	1486.16	1491.98

Note 1: Mean monthly flow (ft^3/sec) measured at the USGS Gage 04221000 Genesee River at Wellsville, New York.

Note 2: Mean monthly flow (ft^3/sec) is measured at the USGS Gage 04221000 Genesee River at Wellsville, New York. Mean daily flow is published in the National Water Information System website accessed at: http://waterdata.usgs.gov/ny/nwis/dv/?site_no=04221000&referred_module=sw

Note 3: Regression equations used to calculate the Site stage gage station river elevations are provided in the chart below.

Site Gage	Stage Elevation Regression Equation (URS 2010)	Regression Equation River Flow Limit (ft^3/sec)
RG08-01	Stage = 0.0024(flow) + 1480	40 - 350
RG08-02	Stage = 0.0015(flow) + 1480.6	40 - 350
RG08-03	Stage = 0.0027(flow) + 1480.8	40 - 400
RG08-04	Stage = $1482.9(flow)^{0.002}$	40 - 400
RG08-05	Stage = 0.2506Ln(flow) + 1483.2	40 - 400
RG08-06	Stage = 0.3389Ln(flow) + 1482.9	40 - 400
RG08-07	Stage = 0.0016(flow) + 1485.5	40 - 400
RG08-08	Stage = 0.2525Ln(flow) + 1484.6	40 - 350
RG08-09	Stage = 0.0018(flow) +1491.1	40 - 400
RG08-10	Equation could not be developed due to insufficient data	not applicable

Note 5: Stage elevation in feet mean sea level (ft msl).

Note 6: Yellow shading indicates the Genesee River mean monthly flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

URS 2010 = URS Internal Memorandum, July 21, 2010. Hydrologic Evaluation of the Genesee River to Determine an Alternative Method to Estimate River Stage as a Substitute to Conventional Manual Survey Method.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table B: Manhole MH-A Water Level Elevations Compared to Calculated River Elevations for Gage Station RG08-01

Date	MH-A Actual (ft msl) (Note 1)	RG08-01 Calculated (ft msl) (Note 2)	Elevation Difference (ft) (Note 3)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1477.38	1481.54	-4.15	yes	
Feb-23	1477.38	1481.07	-3.69	yes	
Mar-23	1477.41	1481.68	-4.27	yes	
Apr-23	1477.41	1481.08	-3.67	yes	
May-23	1477.39	1480.63	-3.24	yes	
Jun-23	1479.27	1480.15	-0.88	yes	GWCT system shutdown for approx. 12 days for Sed pond cleaning and wetland renovations June 9 thru June 21, 2023.
Jul-23	1477.48	1480.27	-2.79	yes	GWCT system shutdown due to Village power outage July 11 thru July 12, 2023.
Aug-23	1477.40	1480.25	-2.85	yes	
Sep-23	1477.45	1480.26	-2.81	yes	
Oct-23	1477.48	1480.13	-2.66	yes	
Nov-23	1477.47	1480.25	-2.79	yes	
Dec-23	1477.46	1481.17	-3.71	yes	

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.

Note 2: Yellow shading indicates the Genesee River mean daily flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

Note 3: Negative elevation difference indicates the water level in the GWCT manhole is lower than the river water level at the gage station.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table C: Manhole MH-B Water Level Elevations Compared to Calculated River Elevations Near MH-B (Average between Gage Stations RG08-01 and RG08-02)

Date	MH-B Monthly (ft msl)	Average Calculated (ft msl) (Notes 2 & 3)	Elevation Difference (ft) (Note 4)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1479.79	1481.55	-1.76	yes	Pump idled 12/12-12/18 for system operation issue
Feb-23	1479.53	1481.17	-1.64	yes	
Mar-23	1481.31	1481.66	-0.35	yes	
Apr-23	1482.41	1481.18	1.23	no	
May-23	1479.21	1480.81	-1.61	yes	
Jun-23	1479.50	1480.42	-0.93	yes	GWCT system shutdown for approx. 12 days for Sed pond cleaning and wetland renovations June 9 thru June 21, 2023.
Jul-23	1477.46	1480.52	-3.06	yes	GWCT system shutdown due to Village power outage July 11 thru July 12, 2023.
Aug-23	1478.62	1480.50	-1.88	yes	
Sep-23	1477.35	1480.51	-3.16	yes	
Oct-23	1477.38	1480.41	-3.02	yes	
Nov-23	1477.37	1480.51	-3.14	yes	
Dec-23	1478.24	1481.25	-3.01	yes	Shutdown December 12 thru December 18, 2023 for system gpm decrease due to flow constriction at vertical flow splitter structure.

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.

Note 2: Yellow shading indicates the Genesee River mean daily flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

Note 3: A Site gage station has never been established near Manhole B (MH-B); therefore the average calculated river elevation for Gage Stations RG08-01 (downstream of MH-B) and RG08-02 (upstream of MH-B) are used to calculate the river elevation for MH-B, since MH-B is located approximately mid-way between Gage Stations RG08-01 and RG08-02. The average of the two gage station's calculated river elevations is used for the MH-B water level elevation comparison.

Note 4: Negative elevation difference indicates the water level in the GWCT manhole is lower than the river water level at the gage station.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table D: Manhole MH-C Water Level Elevations Compared to Calculated River Elevations for Gage Station RG08-03

Date	MH-C Monthly (ft msl)	RG08-03 Calculated (ft msl) (Note 2)	Elevation Difference (ft) (Note 3)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1478.20	1482.53	-4.33	yes	
Feb-23	1478.20	1482.01	-3.80	yes	
Mar-23	1478.21	1482.69	-4.48	yes	
Apr-23	1478.21	1482.01	-3.80	yes	
May-23	1478.23	1481.51	-3.28	yes	
Jun-23	1480.20	1480.97	-0.77	yes	GWCT system shutdown for approx. 12 days for Sed pond cleaning and wetland renovations June 9 thru June 21, 2023.
Jul-23	1478.26	1481.10	-2.84	yes	GWCT system shutdown due to Village power outage July 11 thru July 12, 2023.
Aug-23	1478.25	1481.08	-2.83	yes	
Sep-23	1478.24	1481.09	-2.85	yes	
Oct-23	1478.25	1480.95	-2.70	yes	
Nov-23	1478.25	1481.09	-2.84	yes	
Dec-23	1478.23	1482.12	-3.89	yes	

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.

Note 2: Yellow shading indicates the Genesee River mean daily flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

Note 3: Negative elevation difference indicates the water level in the GWCT manhole is lower than the river water level at the gage station.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table E: Manhole MH-D Water Level Elevations Compared to Calculated River Elevations for Gage Station RG08-05

Date	MH-D Monthly (ft msl)	RG08-05 Calculated (ft msl) (Note 2)	Elevation Difference (ft) (Note 3)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1483.30	1484.82	-1.52	yes	
Feb-23	1483.35	1484.73	-1.38	yes	
Mar-23	1483.24	1484.84	-1.60	yes	
Apr-23	1483.47	1484.73	-1.26	yes	
May-23	1483.30	1484.60	-1.29	yes	
Jun-23	1484.48	1484.24	0.24	no	GWCT system shutdown for approx. 12 days for Sed pond cleaning and wetland renovations June 9 thru June 21, 2023.
Jul-23	1483.41	1484.38	-0.97	yes	GWCT system shutdown due to Village power outage July 11 thru July 12, 2023.
Aug-23	1483.39	1484.36	-0.98	yes	
Sep-23	1483.38	1484.37	-1.00	yes	
Oct-23	1483.41	1484.21	-0.79	yes	
Nov-23	1483.40	1484.37	-0.96	yes	
Dec-23	1483.35	1484.75	-1.40	yes	Shutdown December 12 thru December 18, 2023 for system gpm decrease due to flow constriction at vertical flow splitter structure.

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.

Note 2: Yellow shading indicates the Genesee River mean daily flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

Note 3: Negative elevation difference indicates the water level in the GWCT manhole is lower than the river water level at the gage station.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table F: Manhole MH-E Water Level Elevations Compared to Calculated River Elevations for Gage Station RG08-06

Date	MH-E Monthly (ft msl)	RG08-06 Calculated (ft msl) (Note 2)	Elevation Difference (ft) (Note 3)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1488.13	1488.14	-0.01	yes	MH-E shutdown due to iron fouling
Feb-23	1488.08	1488.04	0.04	no	MH-E shutdown due to iron fouling
Mar-23	1488.41	1488.37	0.03	no	MH-E shutdown due to iron fouling
Apr-23	1488.30	1488.32	-0.02	yes	MH-E shutdown due to iron fouling
May-23	1488.23	1488.29	-0.06	yes	MH-E shutdown due to iron fouling
Jun-23	1487.92	1487.93	-0.01	yes	MH-E shutdown due to iron fouling
Jul-23	1487.69	1487.72	-0.03	yes	MH-E shutdown due to iron fouling
Aug-23	1487.61	1487.59	0.01	no	MH-E shutdown due to iron fouling
Sep-23	1487.70	1487.73	-0.02	yes	MH-E shutdown due to iron fouling
Oct-23	1487.51	1487.50	0.02	no	MH-E shutdown due to iron fouling
Nov-23	1487.68	1487.63	0.05	no	MH-E shutdown due to iron fouling
Dec-23	1488.07	1488.07	0.00	yes	MH-E shutdown due to iron fouling

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.

Note 2: Yellow shading indicates the Genesee River mean daily flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

Note 3: Negative elevation difference indicates the water level in the GWCT manhole is lower than the river water level at the gage station.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table G: Manhole MH-F Water Level Elevations Compared to Calculated River Elevations for Gage Station RG08-07

Date	MH-F Monthly (ft msl)	RG08-07 Calculated (ft msl) (Note 2)	Elevation Difference (ft) (Note 3)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1483.20	1486.52	-3.33	yes	
Feb-23	1483.19	1486.21	-3.02	yes	
Mar-23	1483.26	1486.62	-3.36	yes	
Apr-23	1485.43	1486.22	-0.78	yes	
May-23	1485.13	1485.92	-0.79	yes	
Jun-23	1485.37	1485.60	-0.23	yes	GWCT system shutdown for approx. 12 days for Sed pond cleaning and wetland renovations June 9 thru June 21, 2023.
Jul-23	1483.26	1485.68	-2.42	yes	GWCT system shutdown due to Village power outage July 11 thru July 12, 2023.
Aug-23	1482.80	1485.67	-2.86	yes	
Sep-23	1483.43	1485.67	-2.24	yes	
Oct-23	1483.34	1485.59	-2.25	yes	
Nov-23	1483.34	1485.67	-2.33	yes	
Dec-23	1483.31	1486.28	-2.97	yes	

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.

Note 2: Yellow shading indicates the Genesee River mean daily flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

Note 3: Negative elevation difference indicates the water level in the GWCT manhole is lower than the river water level at the gage station.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table H: Manhole MH-G Water Level Elevations Compared to Calculated River Elevations for Gage Station RG08-09

Date	MH-G Actual (ft msl) (Note 1)	RG08-09 Calculated (ft msl) (Note 2)	Elevation Difference (ft) (Note 3)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1488.84	1492.25	-3.41	yes	
Feb-23	1488.38	1491.90	-3.52	yes	
Mar-23	1488.72	1492.36	-3.64	yes	
Apr-23	1488.39	1491.91	-3.52	yes	
May-23	1487.98	1491.57	-3.60	yes	
Jun-23	1488.98	1491.21	-2.23	yes	GWCT system shutdown for approx. 12 days for Sed pond cleaning and wetland renovations June 9 thru June 21, 2023.
Jul-23	1487.50	1491.30	-3.80	yes	GWCT system shutdown due to Village power outage July 11 thru July 12, 2023.
Aug-23	1487.53	1491.29	-3.75	yes	
Sep-23	1487.44	1491.29	-3.86	yes	
Oct-23	1487.60	1491.20	-3.60	yes	
Nov-23	1487.65	1491.29	-3.64	yes	
Dec-23	1488.10	1491.98	-3.88	yes	

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.

Note 2: Yellow shading indicates the Genesee River mean daily flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

Note 3: Negative elevation difference indicates the water level in the GWCT manhole is lower than the river water level at the gage station.

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table I: Manhole MH-H Water Level Elevations Compared to Calculated River Elevations for Gage Station RG08-10

Date	MH-H Monthly (ft msl)	RG08-10 Calculated (ft msl)	Elevation Difference (ft)	Manhole Water Elevation Lower Than Calculated River Elevation (yes / no)	Comments
Jan-23	1492.92	na	nd	nd	
Feb-23	1493.30	na	nd	nd	
Mar-23	1493.82	na	nd	nd	
Apr-23	1493.13	na	nd	nd	
May-23	1492.66	na	nd	nd	
Jun-23	1492.22	na	nd	nd	
Jul-23	1491.76	na	nd	nd	
Aug-23	1491.54	na	nd	nd	
Sep-23	1492.28	na	nd	nd	
Oct-23	1491.75	na	nd	nd	
Nov-23	1491.88	na	nd	nd	
Dec-23	1492.55	na	nd	nd	

Note 1: Manhole water level elevation determined from electronic measurement data collected by a miniTROLL data logger/pressure transducer; water level elevation is the average of observed water elevations in the data set within the calendar month.
na = not applicable; regression equation could not be developed for RG08-10 due to insufficient historical gage elevation data.
nd = not determined

2022 Summary Table
GWCT Manhole Water Levels Compared to Calculated Site Gage Station River Elevations
Former Sinclair Refinery
Wellsville, New York

Table J: Calculated Site Gage Station River Elevations during Synoptic Events

Date	Genesee River Mean Flow (ft^3/sec) (Notes 1 and 2)	Site Gage Stations (see Figure A for station locations) (Notes 3, 4 and 5)								
		RG08-01	RG08-02	RG08-03	RG08-04	RG08-05	RG08-06	RG08-07	RG08-08	RG08-09
4/14/23	450	1481.08	1481.28	1482.02	1484.71	1484.73	1484.97	1486.22	1486.14	1491.91
10/19/23	31	1480.07	1480.65	1480.88	1483.92	1484.06	1484.06	1485.55	1485.47	1491.16

Note 1: Mean monthly and daily flow (ft^3/sec) measured at the USGS Gage 04221000 Genesee River at Wellsville, New York.

Note 2: Mean monthly flow (ft^3/sec) is measured at the USGS Gage 04221000 Genesee River at Wellsville, New York. Mean daily flow is published in the National Water

Note 3: Regression equations used to calculate the Site stage gage station river elevations are provided in the chart below.

Site Gage	Stage Elevation Regression Equation (URS 2010)	Regression Equation River Flow Limit (ft^3/sec)
RG08-01	Stage = 0.0024(flow) + 1480	40 - 350
RG08-02	Stage = 0.0015(flow) + 1480.6	40 - 350
RG08-03	Stage = 0.0027(flow) + 1480.8	40 - 400
RG08-04	Stage = $1482.9(flow)^{0.002}$	40 - 400
RG08-05	Stage = 0.2506Ln(flow) + 1483.2	40 - 400
RG08-06	Stage = 0.3389Ln(flow) + 1482.9	40 - 400
RG08-07	Stage = 0.0016(flow) + 1485.5	40 - 400
RG08-08	Stage = 0.2525Ln(flow) + 1484.6	40 - 350
RG08-09	Stage = 0.0018(flow) +1491.1	40 - 400
RG08-10	Equation could not be developed due to insufficient data	not applicable

Note 4: Stage elevation in feet mean sea level (ft msl).

Note 5: Yellow shading indicates the Genesee River mean monthly flow, as measured at USGS Gage 04221000 (Genesee River at Wellsville), exceeds the regression equation river flow limits (see Table A above, Note 3). Therefore, the calculated stage elevation may be inaccurate.

URS 2010 = URS Internal Memorandum, July 21, 2010. Hydrologic Evaluation of the Genesee River to Determine an Alternative Method to Estimate River Stage as a Substitute to Conventional Manual Survey Method.

APPENDIX E

2023 WEEKLY SYSTEM FLOW DATA

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	12/27/22 11:15 AM	54	24,966,759
MH-B	12/27/22 11:15 AM	0	13,684,195
MH-C	12/27/22 11:19 AM	0	36,110,182
MH-D	12/27/22 11:23 AM	50	62,260,745
MH-E	12/27/22 11:34 AM	OFF	212,740,442
MH-F	12/27/22 11:34 AM	55	193,959,637
MH-G	12/27/22 11:40 AM	32	191,894,217
MH-H	NA	OFF	
		Total Gallons:	**735,616,177**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
1/3/23 10:30 AM	54	25,230,510	26.28
1/3/23 10:30 AM	0	13,842,680	15.79
1/3/23 10:35 AM	0	36,167,633	5.72
1/3/23 10:40 AM	50	62,555,643	29.38
1/3/23 10:44 AM	OFF	212,740,442	0.00
1/3/23 10:44 AM	55	194,268,472	30.79
1/3/23 10:53 AM	32	192,212,025	31.68
NA	OFF		0.00
	Total Gallons:	**737,017,405**	
Time period total gallons		**1,401,228**	

Total Average Flow (gpm) 12/27/22 to 1/3/23
139.65

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	1/3/23 10:30 AM	54	25,230,510	1/9/23 9:18 AM	51	25,489,650	30.25
MH-B	1/3/23 10:30 AM	0	13,842,680	1/9/23 9:18 AM	20	13,981,194	16.17
MH-C	1/3/23 10:35 AM	0	36,167,633	1/9/23 9:25 AM	0	36,234,625	7.82
MH-D	1/3/23 10:40 AM	50	62,555,643	1/9/23 9:28 AM	44	62,848,171	34.14
MH-E	1/3/23 10:44 AM	OFF	212,740,442	1/9/23 9:30 AM	OFF	212,740,442	0.00
MH-F	1/3/23 10:44 AM	55	194,268,472	1/9/23 9:30 AM	55	194,586,501	37.13
MH-G	1/3/23 10:53 AM	32	192,212,025	1/9/23 9:35 AM	32	192,485,226	31.91
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**737,017,405**		**Total Gallons:**	**738,365,809**	
				Time period total gallons		**1,348,404**	

Total Average Flow (gpm)	**1/3/23**	**to 1/9/23**
		157.41

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	1/9/23 9:18 AM	51	25,489,650
MH-B	1/9/23 9:18 AM	20	13,981,194
MH-C	1/9/23 9:25 AM	0	36,234,625
MH-D	1/9/23 9:28 AM	44	62,848,171
MH-E	1/9/23 9:30 AM	OFF	212,740,442
MH-F	1/9/23 9:30 AM	55	194,586,501
MH-G	1/9/23 9:35 AM	32	192,485,226
MH-H	NA	OFF	
		Total Gallons:	**738,365,809**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
1/16/23 10:40 AM	0	25,772,622	27.85
1/16/23 10:40 AM	19	14,150,075	16.62
1/16/23 10:50 AM	0	36,303,102	6.74
1/16/23 10:54 AM	43	63,168,305	31.49
1/16/23 10:59 AM	OFF	212,740,442	0.00
1/16/23 10:59 AM	54	194,922,660	33.06
1/16/23 11:10 AM	31	192,808,303	31.75
NA	OFF		0.00
	Total Gallons:	**739,865,509**	
	Time period total gallons	**1,499,700**	

Total Average Flow (gpm)	**1/9/23**	**to 1/16/23**
		147.50

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	1/16/23 10:40 AM	0	25,772,622	1/23/23 10:10 AM	0	26,070,621	29.65
MH-B	1/16/23 10:40 AM	19	14,150,075	1/23/23 10:10 AM	21	14,314,790	16.39
MH-C	1/16/23 10:50 AM	0	36,303,102	1/23/23 10:16 AM	0	36,385,556	8.21
MH-D	1/16/23 10:54 AM	43	63,168,305	1/23/23 10:20 AM	0	63,510,938	34.11
MH-E	1/16/23 10:59 AM	OFF	212,740,442	1/23/23 10:24 AM	OFF	212,740,442	0.00
MH-F	1/16/23 10:59 AM	54	194,922,660	1/23/23 10:24 AM	56	195,291,020	36.67
MH-G	1/16/23 11:10 AM	31	192,808,303	1/23/23 10:36 AM	32	193,127,837	31.81
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**739,865,509**		**Total Gallons:**	**741,441,204**	
				Time period total gallons		**1,575,695**	

Total Average Flow (gpm)	**1/16/23**	**to 1/23/23**
		156.83

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	1/23/23 10:10 AM	0	26,070,621	1/30/23 10:40 AM	51	26,371,000	29.71
MH-B	1/23/23 10:10 AM	21	14,314,790	1/30/23 10:40 AM	23	14,480,550	16.40
MH-C	1/23/23 10:16 AM	0	36,385,556	1/30/23 10:46 AM	0	36,457,184	7.08
MH-D	1/23/23 10:20 AM	0	63,510,938	1/30/23 10:50 AM	0	63,825,612	31.13
MH-E	1/23/23 10:24 AM	OFF	212,740,442	1/30/23 10:55 AM	OFF	212,740,442	0.00
MH-F	1/23/23 10:24 AM	56	195,291,020	1/30/23 10:55 AM	0	195,631,308	33.66
MH-G	1/23/23 10:36 AM	32	193,127,837	1/30/23 11:06 AM	32	193,453,840	32.25
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**741,441,204**		**Total Gallons:**	**742,959,936**	
				Time period total gallons		**1,518,732**	

Total Average Flow (gpm)	**1/23/23**	**to 1/30/23**
		150.22

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	1/30/23 10:40 AM	51	26,371,000
MH-B	1/30/23 10:40 AM	23	14,480,550
MH-C	1/30/23 10:46 AM	0	36,457,184
MH-D	1/30/23 10:50 AM	0	63,825,612
MH-E	1/30/23 10:55 AM	OFF	212,740,442
MH-F	1/30/23 10:55 AM	0	195,631,308
MH-G	1/30/23 11:06 AM	32	193,453,840
MH-H	NA	OFF	
		Total Gallons:	**742,959,936**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
2/6/23 10:16 AM	0	26,638,459
2/6/23 10:16 AM	12	14,641,380
2/6/23 10:20 AM	0	36,517,767
2/6/23 10:24 AM	44	64,115,933
2/6/23 10:30 AM	OFF	212,740,442
2/6/23 10:30 AM	0	195,930,237
2/6/23 10:41 AM	32	193,781,800
NA	OFF	
	Total Gallons:	**744,366,018**
Time period total gallons		**1,406,082**

Average Flow (gpm)
26.60
15.99
6.03
28.88
0.00
29.73
32.62
0.00

Total Average Flow (gpm) 1/30/23 to 2/6/23
139.84

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	2/6/23 10:16 AM	0	26,638,459	2/13/23 10:25 AM	50	26,895,425	25.47
MH-B	2/6/23 10:16 AM	12	14,641,380	2/13/23 10:25 AM	16	14,795,675	15.29
MH-C	2/6/23 10:20 AM	0	36,517,767	2/13/23 10:29 AM	33	36,569,470	5.12
MH-D	2/6/23 10:24 AM	44	64,115,933	2/13/23 10:34 AM	50	64,403,260	28.48
MH-E	2/6/23 10:30 AM	OFF	212,740,442	2/13/23 10:40 AM	OFF	212,740,442	0.00
MH-F	2/6/23 10:30 AM	0	195,930,237	2/13/23 10:40 AM	0	196,219,258	28.64
MH-G	2/6/23 10:41 AM	32	193,781,800	2/13/23 10:51 AM	32	194,109,184	32.45
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**744,366,018**		**Total Gallons:**	**745,732,714**	
				Time period total gallons		**1,366,696**	

Total Average Flow (gpm)	**2/6/23**	**to 2/13/23**
		135.46

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	2/13/23 10:25 AM	50	26,895,425	2/20/23 8:45 AM	0	27,141,751	24.68
MH-B	2/13/23 10:25 AM	16	14,795,675	2/20/23 8:45 AM	21	14,945,046	14.97
MH-C	2/13/23 10:29 AM	33	36,569,470	2/20/23 8:51 AM	34	36,615,920	4.65
MH-D	2/13/23 10:34 AM	50	64,403,260	2/20/23 8:55 AM	0	64,679,227	27.65
MH-E	2/13/23 10:40 AM	OFF	212,740,442	2/20/23 9:00 AM	OFF	212,740,442	0.00
MH-F	2/13/23 10:40 AM	0	196,219,258	2/20/23 9:12 AM	0	196,493,158	27.41
MH-G	2/13/23 10:51 AM	32	194,109,184	2/20/23 9:12 AM	32	194,432,280	32.37
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**745,732,714**		**Total Gallons:**	**747,047,824**	
				Time period total gallons		**1,315,110**	

Total Average Flow (gpm)	**2/13/23**	**to 2/20/23**
		131.73

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	2/20/23 8:45 AM	0	27,141,751
MH-B	2/20/23 8:45 AM	21	14,945,046
MH-C	2/20/23 8:51 AM	34	36,615,920
MH-D	2/20/23 8:55 AM	0	64,679,227
MH-E	2/20/23 9:00 AM	OFF	212,740,442
MH-F	2/20/23 9:12 AM	0	196,493,158
MH-G	2/20/23 9:12 AM	32	194,432,280
MH-H	NA	OFF	
		Total Gallons:	**747,047,824**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
2/27/23 10:20 AM	0	27,413,191
2/27/23 10:20 AM	17	15,089,920
2/27/23 10:28 AM	33	36,677,555
2/27/23 10:33 AM	44	65,001,522
2/27/23 10:37 AM	OFF	212,740,442
2/27/23 10:37 AM	53	196,812,460
2/27/23 10:51 AM	32	194,763,454
NA	OFF	
	Total Gallons:	**748,498,544**
Time period total gallons		**1,450,720**

Average Flow (gpm)
26.68
14.24
6.06
31.67
0.00
31.41
32.54
0.00

Total Average Flow (gpm)	**2/20/23**	**to 2/27/23**
		142.58

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	2/27/23 10:20 AM	0	27,413,191	3/6/23 9:25 AM	0	27,715,492	30.15
MH-B	2/27/23 10:20 AM	17	15,089,920	3/6/23 9:25 AM	12	15,241,256	15.10
MH-C	2/27/23 10:28 AM	33	36,677,555	3/6/23 9:31 AM	0	36,751,178	7.35
MH-D	2/27/23 10:33 AM	44	65,001,522	3/6/23 9:35 AM	44	65,338,341	33.61
MH-E	2/27/23 10:37 AM	OFF	212,740,442	3/6/23 9:42 AM	OFF	212,740,442	0.00
MH-F	2/27/23 10:37 AM	53	196,812,460	3/6/23 9:42 AM	0	197,157,184	34.39
MH-G	2/27/23 10:51 AM	32	194,763,454	3/6/23 9:50 AM	0	195,092,964	32.89
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**748,498,544**		**Total Gallons:**	**750,036,857**	
				Time period total gallons		**1,538,313**	

Total Average Flow (gpm)	**2/27/23**	**to 3/6/23**
		153.48

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	3/6/23 9:25 AM	0	27,715,492	3/13/23 9:58 AM	0	28,051,214	33.20
MH-B	3/6/23 9:25 AM	12	15,241,256	3/13/23 9:58 AM	12	15,400,659	15.76
MH-C	3/6/23 9:31 AM	0	36,751,178	3/13/23 10:04 AM	0	36,834,314	8.22
MH-D	3/6/23 9:35 AM	44	65,338,341	3/13/23 10:07 AM	44	65,677,506	33.54
MH-E	3/6/23 9:42 AM	OFF	212,740,442	3/13/23 10:10 AM	OFF	212,740,442	0.00
MH-F	3/6/23 9:42 AM	0	197,157,184	3/13/23 10:10 AM	49	197,523,600	36.25
MH-G	3/6/23 9:50 AM	0	195,092,964	3/13/23 10:15 AM	33	195,421,359	32.50
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**750,036,857**		**Total Gallons:**	**751,649,094**	
				Time period total gallons		**1,612,237**	

Total Average Flow (gpm)	**3/6/23**	**to 3/13/23**
		159.47

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	3/13/23 9:58 AM	0	28,051,214	3/20/23 10:12 AM	53	28,383,485	32.92
MH-B	3/13/23 9:58 AM	12	15,400,659	3/20/23 10:12 AM	21	15,546,800	14.48
MH-C	3/13/23 10:04 AM	0	36,834,314	3/20/23 10:16 AM	0	36,915,085	8.00
MH-D	3/13/23 10:07 AM	44	65,677,506	3/20/23 10:21 AM	40	66,017,475	33.68
MH-E	3/13/23 10:10 AM	OFF	212,740,442	3/20/23 10:25 AM	OFF	212,740,442	0.00
MH-F	3/13/23 10:10 AM	49	197,523,600	3/20/23 10:25 AM	48	197,913,176	38.59
MH-G	3/13/23 10:15 AM	33	195,421,359	3/20/23 10:38 AM	22	195,752,081	32.74
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**751,649,094**		**Total Gallons:**	**753,268,544**	
				Time period total gallons		**1,619,450**	

Total Average Flow (gpm)	**3/13/23**	**to 3/20/23**
		160.41

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	3/20/23 10:12 AM	53	28,383,485	3/27/23 10:15 AM	0	28,725,441	33.91
MH-B	3/20/23 10:12 AM	21	15,546,800	3/27/23 10:15 AM	0	15,643,004	9.54
MH-C	3/20/23 10:16 AM	0	36,915,085	3/27/23 10:22 AM	33	37,000,576	8.48
MH-D	3/20/23 10:21 AM	40	66,017,475	3/27/23 10:30 AM	35	66,353,703	33.33
MH-E	3/20/23 10:25 AM	OFF	212,740,442	3/27/23 10:36 AM	OFF	212,740,442	0.00
MH-F	3/20/23 10:25 AM	48	197,913,176	3/27/23 10:36 AM	44	198,327,770	41.09
MH-G	3/20/23 10:38 AM	22	195,752,081	3/27/23 10:44 AM	32	196,082,550	32.77
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**753,268,544**		**Total Gallons:**	**754,873,486**	
				Time period total gallons		**1,604,942**	

Total Average Flow (gpm)	**3/20/23**	**to 3/27/23**
		159.11

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	3/27/23 10:15 AM	0	28,725,441
MH-B	3/27/23 10:15 AM	0	15,643,004
MH-C	3/27/23 10:22 AM	33	37,000,576
MH-D	3/27/23 10:30 AM	35	66,353,703
MH-E	3/27/23 10:36 AM	OFF	212,740,442
MH-F	3/27/23 10:36 AM	44	198,327,770
MH-G	3/27/23 10:44 AM	32	196,082,550
MH-H	NA	OFF	
		Total Gallons:	**754,873,486**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
4/3/23 9:15 AM	50	29,070,286	34.42
4/3/23 9:15 AM	0	15,644,124	0.11
4/3/23 9:20 AM	0	37,118,510	11.77
4/3/23 9:24 AM	33	66,680,560	32.64
4/3/23 9:30 AM	OFF	212,740,442	0.00
4/3/23 9:30 AM	43	198,755,100	42.67
4/3/23 9:42 AM	33	196,411,366	32.82
NA	OFF		0.00
	Total Gallons:	**756,420,388**	
Time period total gallons		**1,546,902**	

Total Average Flow (gpm)	**3/27/23**	**to 4/3/23**
		154.44

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	4/3/23 9:15 AM	50	29,070,286	4/10/23 7:30 AM	0	29,420,852	35.14
MH-B	4/3/23 9:15 AM	0	15,644,124	4/10/23 7:30 AM	19	15,661,520	1.74
MH-C	4/3/23 9:20 AM	0	37,118,510	4/10/23 7:36 AM	33	37,251,150	13.30
MH-D	4/3/23 9:24 AM	33	66,680,560	4/10/23 7:40 AM	37	67,018,710	33.90
MH-E	4/3/23 9:30 AM	OFF	212,740,442	4/10/23 7:45 AM	OFF	212,740,442	0.00
MH-F	4/3/23 9:30 AM	43	198,755,100	4/10/23 7:45 AM	43	199,196,585	44.26
MH-G	4/3/23 9:42 AM	33	196,411,366	4/10/23 7:58 AM	32	196,739,570	32.90
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**756,420,388**		**Total Gallons:**	**758,028,829**	
				Time period total gallons		**1,608,441**	

Total Average Flow (gpm)	**4/3/23**	**to 4/10/23**
		161.24

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	4/10/23 7:30 AM	0	29,420,852	4/17/23 10:00 AM	55	29,748,180	32.00
MH-B	4/10/23 7:30 AM	19	15,661,520	4/17/23 10:00 AM	0	15,714,625	5.19
MH-C	4/10/23 7:36 AM	33	37,251,150	4/17/23 10:06 AM	0	37,347,886	9.46
MH-D	4/10/23 7:40 AM	37	67,018,710	4/17/23 10:10 AM	35	67,328,128	30.25
MH-E	4/10/23 7:45 AM	OFF	212,740,442	4/17/23 10:16 AM	OFF	212,740,442	0.00
MH-F	4/10/23 7:45 AM	43	199,196,585	4/17/23 10:16 AM	40	199,639,670	43.31
MH-G	4/10/23 7:58 AM	32	196,739,570	4/17/23 10:25 AM	32	197,072,750	32.58
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**758,028,829**		**Total Gallons:**	**759,591,681**	
				Time period total gallons		**1,562,852**	

Total Average Flow (gpm)	**4/10/23**	**to 4/17/23**
		152.78

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	4/17/23 10:00 AM	55	29,748,180	4/24/23 10:07 AM	0	30,033,054	28.24
MH-B	4/17/23 10:00 AM	0	15,714,625	4/24/23 10:07 AM	0	15,743,607	2.87
MH-C	4/17/23 10:06 AM	0	37,347,886	4/24/23 10:12 AM	0	37,426,784	7.82
MH-D	4/17/23 10:10 AM	35	67,328,128	4/24/23 10:16 AM	35	67,622,375	29.17
MH-E	4/17/23 10:16 AM	OFF	212,740,442	4/24/23 10:22 AM	OFF	212,740,442	0.00
MH-F	4/17/23 10:16 AM	40	199,639,670	4/24/23 10:22 AM	41	200,062,874	41.96
MH-G	4/17/23 10:25 AM	32	197,072,750	4/24/23 10:29 AM	32	197,397,860	32.24
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**759,591,681**		**Total Gallons:**	**761,026,996**	
				Time period total gallons		**1,435,315**	

Total Average Flow (gpm)	**4/17/23**	**to 4/24/23**
		142.31

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	4/24/23 10:07 AM	0	30,033,054
MH-B	4/24/23 10:07 AM	0	15,743,607
MH-C	4/24/23 10:12 AM	0	37,426,784
MH-D	4/24/23 10:16 AM	35	67,622,375
MH-E	4/24/23 10:22 AM	OFF	212,740,442
MH-F	4/24/23 10:22 AM	41	200,062,874
MH-G	4/24/23 10:29 AM	32	197,397,860
MH-H	NA	OFF	
		Total Gallons:	**761,026,996**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
5/1/23 9:50 AM	0	30,303,219	26.85
5/1/23 9:50 AM	0	15,785,189	4.13
5/1/23 10:01 AM	0	37,493,621	6.64
5/1/23 10:05 AM	37	67,909,130	28.48
5/1/23 10:10 AM	OFF	212,740,442	0.00
5/1/23 10:10 AM	41	200,485,548	41.98
5/1/23 10:17 AM	32	197,720,740	32.07
NA	OFF		0.00
	Total Gallons:	**762,437,889**	
Time period total gallons		**1,410,893**	

Total Average Flow (gpm)	**4/24/23**	**to 5/1/23**
		140.15

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	5/1/23 9:50 AM	0	30,303,219	5/8/23 10:10 AM	56	30,635,077	32.86
MH-B	5/1/23 9:50 AM	0	15,785,189	5/8/23 10:10 AM	9	15,858,205	7.23
MH-C	5/1/23 10:01 AM	0	37,493,621	5/8/23 10:18 AM	36	37,582,805	8.83
MH-D	5/1/23 10:05 AM	37	67,909,130	5/8/23 10:24 AM	38	68,249,760	33.73
MH-E	5/1/23 10:10 AM	OFF	212,740,442	5/8/23 10:29 AM	OFF	212,740,442	0.00
MH-F	5/1/23 10:10 AM	41	200,485,548	5/8/23 10:29 AM	41	200,909,295	41.96
MH-G	5/1/23 10:17 AM	32	197,720,740	5/8/23 10:41 AM	32	198,050,837	32.67
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**762,437,889**		**Total Gallons:**	**764,026,421**	
				Time period total gallons		**1,588,532**	

Total Average Flow (gpm)	**5/1/23**	**to 5/8/23**
		157.28

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	5/8/23 10:10 AM	56	30,635,077
MH-B	5/8/23 10:10 AM	9	15,858,205
MH-C	5/8/23 10:18 AM	36	37,582,805
MH-D	5/8/23 10:24 AM	38	68,249,760
MH-E	5/8/23 10:29 AM	OFF	212,740,442
MH-F	5/8/23 10:29 AM	41	200,909,295
MH-G	5/8/23 10:41 AM	32	198,050,837
MH-H	NA	OFF	
		Total Gallons:	**764,026,421**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
5/15/23 9:52 AM	56	30,936,000
5/15/23 9:52 AM	11	15,994,602
5/15/23 9:58 AM	0	37,655,533
5/15/23 10:02 AM	44	68,559,559
5/15/23 10:07 AM	OFF	212,740,442
5/15/23 10:07 AM	41	201,335,275
5/15/23 10:15 AM	32	198,377,577
NA	OFF	
	Total Gallons:	**765,598,988**
Time period total gallons		**1,572,567**

Average Flow (gpm)
29.91
13.56
7.23
30.80
0.00
42.35
32.50
0.00

Total Average Flow (gpm)	**5/8/23**	**to 5/15/23**
		156.34

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	5/15/23 9:52 AM	56	30,936,000	5/22/23 10:36 AM	55	31,178,483	23.95
MH-B	5/15/23 9:52 AM	11	15,994,602	5/22/23 10:36 AM	0	16,170,027	17.33
MH-C	5/15/23 9:58 AM	0	37,655,533	5/22/23 10:40 AM	0	37,702,215	4.61
MH-D	5/15/23 10:02 AM	44	68,559,559	5/22/23 10:45 AM	0	68,847,136	28.41
MH-E	5/15/23 10:07 AM	OFF	212,740,442	5/22/23 10:51 AM	OFF	212,740,442	0.00
MH-F	5/15/23 10:07 AM	41	201,335,275	5/22/23 10:51 AM	65	201,758,270	41.78
MH-G	5/15/23 10:15 AM	32	198,377,577	5/22/23 11:02 AM	32	198,703,720	32.21
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**765,598,988**		**Total Gallons:**	**767,100,293**	
				Time period total gallons		**1,501,305**	

Total Average Flow (gpm)	**5/15/23**	**to 5/22/23**
		148.29

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	5/22/23 10:36 AM	55	31,178,483	5/31/23 10:10 AM	61	31,434,874	19.82
MH-B	5/22/23 10:36 AM	0	16,170,027	5/31/23 10:10 AM	0	16,365,779	15.13
MH-C	5/22/23 10:40 AM	0	37,702,215	5/31/23 10:13 AM	0	37,743,822	3.22
MH-D	5/22/23 10:45 AM	0	68,847,136	5/31/23 10:16 AM	0	69,187,176	26.30
MH-E	5/22/23 10:51 AM	OFF	212,740,442	5/31/23 10:19 AM	OFF	212,740,442	0.00
MH-F	5/22/23 10:51 AM	65	201,758,270	5/31/23 10:19 AM	63	202,250,677	38.09
MH-G	5/22/23 11:02 AM	32	198,703,720	5/31/23 10:29 AM	31	199,117,189	31.98
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**767,100,293**		**Total Gallons:**	**768,839,959**	
				Time period total gallons		**1,739,666**	

Total Average Flow (gpm)	**5/22/23**	**to 5/31/23**
		134.54

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	5/31/23 10:10 AM	61	31,434,874	6/5/23 9:50 AM	0	31,559,908	17.41
MH-B	5/31/23 10:10 AM	0	16,365,779	6/5/23 9:50 AM	47	16,469,755	14.48
MH-C	5/31/23 10:13 AM	0	37,743,822	6/5/23 9:55 AM	0	37,762,902	2.66
MH-D	5/31/23 10:16 AM	0	69,187,176	6/5/23 10:01 AM	0	69,361,252	24.23
MH-E	5/31/23 10:19 AM	OFF	212,740,442	6/5/23 10:05 AM	OFF	212,740,442	0.00
MH-F	5/31/23 10:19 AM	63	202,250,677	6/5/23 10:05 AM	0	202,457,752	28.82
MH-G	5/31/23 10:29 AM	31	199,117,189	6/5/23 10:17 AM	34	199,344,656	31.65
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**768,839,959**		**Total Gallons:**	**769,696,667**	
				Time period total gallons		**856,708**	

Total Average Flow (gpm)	**5/31/23**	**to 6/5/23**
		119.24

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	6/5/23 9:50 AM	0	31,559,908
MH-B	6/5/23 9:50 AM	47	16,469,755
MH-C	6/5/23 9:55 AM	0	37,762,902
MH-D	6/5/23 10:01 AM	0	69,361,252
MH-E	6/5/23 10:05 AM	OFF	212,740,442
MH-F	6/5/23 10:05 AM	0	202,457,752
MH-G	6/5/23 10:17 AM	34	199,344,656
MH-H	NA	OFF	
		Total Gallons:	**769,696,667**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
6/9/23 9:00 AM	0	31,645,298	14.95
6/9/23 9:00 AM	0	16,548,903	13.86
6/9/23 9:03 AM	0	37,776,218	2.33
6/9/23 9:06 AM	0	69,493,625	23.20
6/9/23 9:06 AM	OFF	212,740,442	0.00
6/9/23 9:09 AM	0	202,608,313	26.40
6/9/23 9:09 AM	0	199,516,898	30.26
NA	OFF		0.00
	Total Gallons:	**770,329,697**	
Time period total gallons		**633,030**	

Total Average Flow (gpm)	**6/5/23**	**to 6/9/23**
		111.01

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	6/9/23 9:00 AM	0	31,645,298	6/26/23 8:35 AM	0	31,803,836	6.48
MH-B	6/9/23 9:00 AM	0	16,548,903	6/26/23 8:35 AM	0	16,738,042	7.73
MH-C	6/9/23 9:03 AM	0	37,776,218	6/26/23 8:40 AM	0	37,852,254	3.11
MH-D	6/9/23 9:06 AM	0	69,493,625	6/26/23 8:44 AM	0	69,678,472	7.56
MH-E	6/9/23 9:06 AM	OFF	212,740,442	6/26/23 8:48 AM	OFF	212,740,442	0.00
MH-F	6/9/23 9:09 AM	0	202,608,313	6/26/23 8:48 AM	63	202,844,275	9.65
MH-G	6/9/23 9:09 AM	0	199,516,898	6/26/23 8:55 AM	0	199,689,492	7.05
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**770,329,697**		**Total Gallons:**	**771,346,813**	
				Time period total gallons		**1,017,116**	

Total Average Flow (gpm)	**6/9/23**	**to 6/26/23**
		41.59

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	6/26/23 8:35 AM	0	31,803,836	7/5/23 8:40 AM	57	32,021,885	16.82
MH-B	6/26/23 8:35 AM	0	16,738,042	7/5/23 8:40 AM	0	16,944,547	15.93
MH-C	6/26/23 8:40 AM	0	37,852,254	7/5/23 8:48 AM	0	37,891,317	3.01
MH-D	6/26/23 8:44 AM	0	69,678,472	7/5/23 8:52 AM	46	69,989,870	24.01
MH-E	6/26/23 8:48 AM	OFF	212,740,442	7/5/23 8:57 AM	OFF	212,740,442	0.00
MH-F	6/26/23 8:48 AM	63	202,844,275	7/5/23 8:57 AM	60	203,214,130	28.52
MH-G	6/26/23 8:55 AM	0	199,689,492	7/5/23 9:05 AM	32	200,041,763	27.16
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**771,346,813**		**Total Gallons:**	**772,843,954**	
				Time period total gallons		**1,497,141**	

Total Average Flow (gpm)	**6/26/23**	**to 7/5/23**
		115.45

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	7/5/23 8:40 AM	57	32,021,885	7/10/23 9:42 AM	58	32,159,488	18.95
MH-B	7/5/23 8:40 AM	0	16,944,547	7/10/23 9:42 AM	0	17,060,218	15.93
MH-C	7/5/23 8:48 AM	0	37,891,317	7/10/23 9:49 AM	0	37,913,462	3.05
MH-D	7/5/23 8:52 AM	46	69,989,870	7/10/23 9:51 AM	0	70,171,089	24.96
MH-E	7/5/23 8:57 AM	OFF	212,740,442	7/10/23 9:53 AM	OFF	212,740,442	0.00
MH-F	7/5/23 8:57 AM	60	203,214,130	7/10/23 9:53 AM	63	203,436,118	30.59
MH-G	7/5/23 9:05 AM	32	200,041,763	7/10/23 10:01 AM	32	200,256,217	29.56
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**772,843,954**		**Total Gallons:**	**773,737,034**	
				Time period total gallons		**893,080**	

Total Average Flow (gpm)	**7/5/23**	**to 7/10/23**
		123.04

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	7/10/23 9:42 AM	58	32,159,488	7/17/23 9:54 AM	0	32,327,619	16.66
MH-B	7/10/23 9:42 AM	0	17,060,218	7/17/23 9:54 AM	0	17,217,491	15.58
MH-C	7/10/23 9:49 AM	0	37,913,462	7/17/23 10:15 AM	0	37,943,178	2.94
MH-D	7/10/23 9:51 AM	0	70,171,089	7/17/23 10:17 AM	0	70,409,201	23.56
MH-E	7/10/23 9:53 AM	OFF	212,740,442	7/17/23 10:19 AM	OFF	212,740,442	0.00
MH-F	7/10/23 9:53 AM	63	203,436,118	7/17/23 10:19 AM	63	203,733,130	29.39
MH-G	7/10/23 10:01 AM	32	200,256,217	7/17/23 10:23 AM	32	200,552,175	29.30
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**773,737,034**		**Total Gallons:**	**774,923,236**	
				Time period total gallons		**1,186,202**	

Total Average Flow (gpm)	**7/10/23**	**to 7/17/23**
		117.43

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	7/17/23 9:54 AM	0	32,327,619	7/24/23 7:50 AM	0	32,496,281	16.94
MH-B	7/17/23 9:54 AM	0	17,217,491	7/24/23 7:50 AM	48	17,374,650	15.79
MH-C	7/17/23 10:15 AM	0	37,943,178	7/24/23 8:00 AM	0	37,967,974	2.49
MH-D	7/17/23 10:17 AM	0	70,409,201	7/24/23 8:20 AM	0	70,635,694	22.73
MH-E	7/17/23 10:19 AM	OFF	212,740,442	7/24/23 8:25 AM	OFF	212,740,442	0.00
MH-F	7/17/23 10:19 AM	63	203,733,130	7/24/23 8:25 AM	0	204,042,904	31.08
MH-G	7/17/23 10:23 AM	32	200,552,175	7/24/23 8:36 AM	32	200,846,215	29.48
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**774,923,236**		**Total Gallons:**	**776,104,160**	
				Time period total gallons		**1,180,924**	

Total Average Flow (gpm)	**7/17/23**	**to 7/24/23**
		118.52

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	7/24/23 7:50 AM	0	32,496,281	7/31/23 7:10 AM	0	32,638,169	14.13
MH-B	7/24/23 7:50 AM	48	17,374,650	7/31/23 7:10 AM	25	17,527,645	15.24
MH-C	7/24/23 8:00 AM	0	37,967,974	7/31/23 7:14 AM	0	37,992,082	2.40
MH-D	7/24/23 8:20 AM	0	70,635,694	7/31/23 7:18 AM	44	70,859,515	22.34
MH-E	7/24/23 8:25 AM	OFF	212,740,442	7/31/23 7:22 AM	OFF	212,740,442	0.00
MH-F	7/24/23 8:25 AM	0	204,042,904	7/31/23 7:22 AM	59	204,369,030	32.56
MH-G	7/24/23 8:36 AM	32	200,846,215	7/31/23 7:28 AM	32	201,145,600	29.90
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**776,104,160**		**Total Gallons:**	**777,272,483**	
				Time period total gallons		**1,168,323**	

Total Average Flow (gpm)	**7/24/23**	**to 7/31/23**
		116.58

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	7/31/23 7:10 AM	0	32,638,169	8/7/23 8:42 AM	0	32,786,989	14.63
MH-B	7/31/23 7:10 AM	25	17,527,645	8/7/23 8:42 AM	31	17,671,551	14.15
MH-C	7/31/23 7:14 AM	0	37,992,082	8/7/23 8:47 AM	0	38,015,458	2.30
MH-D	7/31/23 7:18 AM	44	70,859,515	8/7/23 8:51 AM	44	71,073,645	21.05
MH-E	7/31/23 7:22 AM	OFF	212,740,442	8/7/23 8:57 AM	OFF	212,740,442	0.00
MH-F	7/31/23 7:22 AM	59	204,369,030	8/7/23 8:57 AM	52	204,729,976	35.47
MH-G	7/31/23 7:28 AM	32	201,145,600	8/7/23 9:05 AM	34	201,443,212	29.24
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**777,272,483**		**Total Gallons:**	**778,461,273**	
				Time period total gallons		**1,188,790**	

Total Average Flow (gpm)	**7/31/23**	**to 8/7/23**
		116.84

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	8/7/23 8:42 AM	0	32,786,989	8/14/23 6:15 AM	0	32,926,367	14.03
MH-B	8/7/23 8:42 AM	31	17,671,551	8/14/23 6:15 AM	13	17,795,330	12.46
MH-C	8/7/23 8:47 AM	0	38,015,458	8/14/23 6:23 AM	0	38,041,305	2.60
MH-D	8/7/23 8:51 AM	44	71,073,645	8/14/23 6:29 AM	40	71,277,765	20.54
MH-E	8/7/23 8:57 AM	OFF	212,740,442	8/14/23 6:34 AM	OFF	212,740,442	0.00
MH-F	8/7/23 8:57 AM	52	204,729,976	8/14/23 6:34 AM	57	205,111,860	38.43
MH-G	8/7/23 9:05 AM	34	201,443,212	8/14/23 6:40 AM	0	201,737,979	29.67
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**778,461,273**		**Total Gallons:**	**779,631,048**	
				Time period total gallons		**1,169,775**	

Total Average Flow (gpm)	**8/7/23**	**to 8/14/23**
		117.73

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	8/14/23 6:15 AM	0	32,926,367	8/21/23 8:30 AM	60	33,073,756	14.43
MH-B	8/14/23 6:15 AM	13	17,795,330	8/21/23 8:30 AM	12	17,925,262	12.72
MH-C	8/14/23 6:23 AM	0	38,041,305	8/21/23 8:38 AM	0	38,074,188	3.22
MH-D	8/14/23 6:29 AM	40	71,277,765	8/21/23 8:42 AM	0	71,509,076	22.65
MH-E	8/14/23 6:34 AM	OFF	212,740,442	8/21/23 8:50 AM	OFF	212,740,442	0.00
MH-F	8/14/23 6:34 AM	57	205,111,860	8/21/23 8:50 AM	62	205,541,333	42.04
MH-G	8/14/23 6:40 AM	0	201,737,979	8/21/23 9:40 AM	46	202,057,465	31.14
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**779,631,048**		**Total Gallons:**	**780,921,522**	
				Time period total gallons		**1,290,474**	

Total Average Flow (gpm)	**8/14/23**	**to 8/21/23**
		126.19

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	8/21/23 8:30 AM	60	33,073,756	8/28/23 9:10 AM	0	33,213,125	13.77
MH-B	8/21/23 8:30 AM	12	17,925,262	8/28/23 9:10 AM	0	18,077,856	15.08
MH-C	8/21/23 8:38 AM	0	38,074,188	8/28/23 9:16 AM	0	38,108,795	3.42
MH-D	8/21/23 8:42 AM	0	71,509,076	8/28/23 9:21 AM	0	71,737,645	22.59
MH-E	8/21/23 8:50 AM	OFF	212,740,442	8/28/23 9:28 AM	OFF	212,740,442	0.00
MH-F	8/21/23 8:50 AM	62	205,541,333	8/28/23 9:40 AM	0	205,857,022	31.16
MH-G	8/21/23 9:40 AM	46	202,057,465	8/28/23 9:40 AM	0	202,380,010	32.00
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**780,921,522**		**Total Gallons:**	**782,114,895**	
				Time period total gallons		**1,193,373**	

Total Average Flow (gpm)	**8/21/23**	**to 8/28/23**
		118.02

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	8/28/23 9:10 AM	0	33,213,125
MH-B	8/28/23 9:10 AM	0	18,077,856
MH-C	8/28/23 9:16 AM	0	38,108,795
MH-D	8/28/23 9:21 AM	0	71,737,645
MH-E	8/28/23 9:28 AM	OFF	212,740,442
MH-F	8/28/23 9:40 AM	0	205,857,022
MH-G	8/28/23 9:40 AM	0	202,380,010
MH-H	NA	OFF	
		Total Gallons:	**782,114,895**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
9/5/23 8:40 AM	0	33,368,954	13.56
9/5/23 8:40 AM	39	18,248,779	14.88
9/5/23 8:47 AM	0	38,148,163	3.43
9/5/23 8:50 AM	46	72,015,091	24.15
9/5/23 8:50 AM	OFF	212,740,442	0.00
9/5/23 8:55 AM	0	206,193,688	29.34
9/5/23 9:03 AM	35	202,736,354	31.03
NA	OFF		0.00
	Total Gallons:	**783,451,471**	
Time period total gallons		**1,336,576**	

Total Average Flow (gpm)	**8/28/23**	**to 9/5/23**
		116.38

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	9/5/23 8:40 AM	0	33,368,954	9/11/23 9:25 AM	0	33,483,785	13.22
MH-B	9/5/23 8:40 AM	39	18,248,779	9/11/23 9:25 AM	50	18,381,108	15.24
MH-C	9/5/23 8:47 AM	0	38,148,163	9/11/23 9:29 AM	0	38,185,694	4.32
MH-D	9/5/23 8:50 AM	46	72,015,091	9/11/23 9:32 AM	0	72,291,633	31.85
MH-E	9/5/23 8:50 AM	OFF	212,740,442	9/11/23 9:35 AM	OFF	212,740,442	0.00
MH-F	9/5/23 8:55 AM	0	206,193,688	9/11/23 9:35 AM	62	206,464,036	31.15
MH-G	9/5/23 9:03 AM	35	202,736,354	9/11/23 9:50 AM	35	203,006,828	31.14
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**783,451,471**		**Total Gallons:**	**784,553,526**	
				Time period total gallons		**1,102,055**	

Total Average Flow (gpm)	**9/5/23**	**to 9/11/23**
		126.92

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	9/11/23 9:25 AM	0	33,483,785	9/18/23 10:22 AM	0	33,627,373	14.16
MH-B	9/11/23 9:25 AM	50	18,381,108	9/18/23 10:22 AM	0	18,545,971	16.26
MH-C	9/11/23 9:29 AM	0	38,185,694	9/18/23 10:29 AM	0	38,230,680	4.44
MH-D	9/11/23 9:32 AM	0	72,291,633	9/18/23 10:37 AM	46	72,512,075	21.73
MH-E	9/11/23 9:35 AM	OFF	212,740,442	9/18/23 10:46 AM	OFF	212,740,442	0.00
MH-F	9/11/23 9:35 AM	62	206,464,036	9/18/23 10:46 AM	55	206,794,365	32.54
MH-G	9/11/23 9:50 AM	35	203,006,828	9/18/23 11:00 AM	34	203,345,670	33.38
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**784,553,526**		**Total Gallons:**	**785,796,576**	
				Time period total gallons		**1,243,050**	

Total Average Flow (gpm)	**9/11/23**	**to 9/18/23**
		122.52

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	9/18/23 10:22 AM	0	33,627,373	9/27/23 8:35 AM	0	33,767,962	10.94
MH-B	9/18/23 10:22 AM	0	18,545,971	9/27/23 8:35 AM	0	18,730,135	14.33
MH-C	9/18/23 10:29 AM	0	38,230,680	9/27/23 8:41 AM	0	38,265,841	2.74
MH-D	9/18/23 10:37 AM	46	72,512,075	9/27/23 8:47 AM	46	72,810,543	23.23
MH-E	9/18/23 10:46 AM	OFF	212,740,442	9/27/23 8:54 AM	OFF	212,740,442	0.00
MH-F	9/18/23 10:46 AM	55	206,794,365	9/27/23 9:15 AM	54	207,118,230	25.17
MH-G	9/18/23 11:00 AM	34	203,345,670	9/27/23 9:15 AM	34	203,731,660	30.03
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**785,796,576**		**Total Gallons:**	**787,164,813**	
				Time period total gallons		**1,368,237**	

Total Average Flow (gpm)	**9/18/23**	**to 9/27/23**
		106.42

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	9/27/23 8:35 AM	0	33,767,962
MH-B	9/27/23 8:35 AM	0	18,730,135
MH-C	9/27/23 8:41 AM	0	38,265,841
MH-D	9/27/23 8:47 AM	46	72,810,543
MH-E	9/27/23 8:54 AM	OFF	212,740,442
MH-F	9/27/23 9:15 AM	54	207,118,230
MH-G	9/27/23 9:15 AM	34	203,731,660
MH-H	NA	OFF	
		Total Gallons:	**787,164,813**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
10/2/23 12:44 PM	0	33,838,270	9.44
10/2/23 12:44 PM	44	18,829,725	13.37
10/2/23 12:52 PM	0	38,281,687	2.13
10/2/23 12:55 PM	0	72,970,860	21.52
10/2/23 12:57 PM	OFF	212,740,442	0.00
10/2/23 12:57 PM	0	207,290,714	23.24
10/2/23 1:02 PM	34	203,947,868	29.11
NA	OFF		0.00
	Total Gallons:	**787,899,566**	
Time period total gallons		**734,753**	

Total Average Flow (gpm)	**9/27/23**	**to 10/2/23**
		98.81

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	10/2/23 12:44 PM	0	33,838,270	10/9/23 10:25 AM	0	33,924,069	8.63
MH-B	10/2/23 12:44 PM	44	18,829,725	10/9/23 10:25 AM	40	18,965,186	13.63
MH-C	10/2/23 12:52 PM	0	38,281,687	10/9/23 10:28 AM	0	38,299,451	1.79
MH-D	10/2/23 12:55 PM	0	72,970,860	10/9/23 10:32 AM	41	73,175,530	20.60
MH-E	10/2/23 12:57 PM	OFF	212,740,442	10/9/23 10:35 AM	OFF	212,740,442	0.00
MH-F	10/2/23 12:57 PM	0	207,290,714	10/9/23 10:35 AM	51	207,512,445	22.31
MH-G	10/2/23 1:02 PM	34	203,947,868	10/9/23 10:43 AM	34	204,237,719	29.16
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**787,899,566**		**Total Gallons:**	**788,854,842**	
				Time period total gallons		**955,276**	

Total Average Flow (gpm)	**10/2/23**	**to 10/9/23**
		96.11

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	10/2/23 12:44 PM	0	33,838,270	10/16/23 9:00 AM	51	34,004,979	8.36
MH-B	10/2/23 12:44 PM	44	18,829,725	10/16/23 9:00 AM	0	19,076,130	12.36
MH-C	10/2/23 12:52 PM	0	38,281,687	10/16/23 9:06 AM	0	38,317,080	1.78
MH-D	10/2/23 12:55 PM	0	72,970,860	10/16/23 9:12 AM	53	73,378,625	20.45
MH-E	10/2/23 12:57 PM	OFF	212,740,442	10/16/23 9:16 AM	OFF	212,740,442	0.00
MH-F	10/2/23 12:57 PM	0	207,290,714	10/16/23 9:16 AM	0	207,727,999	21.93
MH-G	10/2/23 1:02 PM	34	203,947,868	10/16/23 9:24 AM	54	204,521,407	28.76
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**787,899,566**		**Total Gallons:**	**789,766,662**	
				Time period total gallons		**1,867,096**	

Total Average Flow (gpm)	**10/2/23**	**to 10/16/23**
		93.64

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	10/16/23 9:00 AM	51	34,004,979	10/23/23 11:54 AM	0	34,086,643	7.96
MH-B	10/16/23 9:00 AM	0	19,076,130	10/23/23 11:54 AM	0	19,199,796	12.06
MH-C	10/16/23 9:06 AM	0	38,317,080	10/23/23 11:59 AM	0	38,336,096	1.85
MH-D	10/16/23 9:12 AM	53	73,378,625	10/23/23 12:02 PM	52	73,599,000	21.50
MH-E	10/16/23 9:16 AM	OFF	212,740,442	10/23/23 12:05 PM	OFF	212,740,442	0.00
MH-F	10/16/23 9:16 AM	0	207,727,999	10/23/23 12:05 PM	0	207,950,415	21.70
MH-G	10/16/23 9:24 AM	54	204,521,407	10/23/23 12:09 PM	35	204,796,214	26.82
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**789,766,662**		**Total Gallons:**	**790,708,606**	
				Time period total gallons		**941,944**	

Total Average Flow (gpm)	**10/16/23**	**to 10/23/23**
		91.90

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	10/23/23 11:54 AM	0	34,086,643
MH-B	10/23/23 11:54 AM	0	19,199,796
MH-C	10/23/23 11:59 AM	0	38,336,096
MH-D	10/23/23 12:02 PM	52	73,599,000
MH-E	10/23/23 12:05 PM	OFF	212,740,442
MH-F	10/23/23 12:05 PM	0	207,950,415
MH-G	10/23/23 12:09 PM	35	204,796,214
MH-H	NA	OFF	
		Total Gallons:	**790,708,606**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
10/30/23 1:25 PM	0	34,166,307	7.83
10/30/23 1:25 PM	0	19,321,066	11.92
10/30/23 1:31 PM	0	38,354,380	1.80
10/30/23 1:35 PM	0	73,796,372	19.40
10/30/23 1:41 PM	OFF	212,740,442	0.00
10/30/23 1:41 PM	54	208,159,520	20.55
10/30/23 1:46 PM	35	205,059,820	25.90
NA	OFF		0.00
	Total Gallons:	**791,597,907**	
Time period total gallons		**889,301**	

Total Average Flow (gpm)	**10/23/23**	**to 10/30/23**
		87.41

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	10/30/23 1:25 PM	0	34,166,307	11/6/23 9:40 AM	0	34,245,790	8.07
MH-B	10/30/23 1:25 PM	0	19,321,066	11/6/23 9:40 AM	0	19,443,000	12.37
MH-C	10/30/23 1:31 PM	0	38,354,380	11/6/23 9:44 AM	0	38,375,660	2.16
MH-D	10/30/23 1:35 PM	0	73,796,372	11/6/23 9:50 AM	51	74,019,920	22.68
MH-E	10/30/23 1:41 PM	OFF	212,740,442	11/6/23 9:55 AM	OFF	212,740,442	0.00
MH-F	10/30/23 1:41 PM	54	208,159,520	11/6/23 9:55 AM	0	208,380,804	22.46
MH-G	10/30/23 1:46 PM	35	205,059,820	11/6/23 10:04 AM	35	205,326,198	27.02
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**791,597,907**		**Total Gallons:**	**792,531,814**	
				Time period total gallons		**933,907**	

Total Average Flow (gpm)	**10/30/23**	**to 11/6/23**
		94.76

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	11/6/23 9:40 AM	0	34,245,790	11/13/23 10:35 AM	52	34,326,000	7.91
MH-B	11/6/23 9:40 AM	0	19,443,000	11/13/23 10:35 AM	0	19,565,814	12.12
MH-C	11/6/23 9:44 AM	0	38,375,660	11/13/23 10:40 AM	0	38,394,721	1.88
MH-D	11/6/23 9:50 AM	51	74,019,920	11/13/23 10:46 AM	0	74,231,760	20.90
MH-E	11/6/23 9:55 AM	OFF	212,740,442	11/13/23 10:51 AM	OFF	212,740,442	0.00
MH-F	11/6/23 9:55 AM	0	208,380,804	11/13/23 11:03 AM	0	208,596,888	21.29
MH-G	11/6/23 10:04 AM	35	205,326,198	11/13/23 11:03 AM	0	205,591,925	26.21
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**792,531,814**		**Total Gallons:**	**793,447,550**	
				Time period total gallons		**915,736**	

Total Average Flow (gpm)	**11/6/23**	**to 11/13/23**
		90.31

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	11/13/23 10:35 AM	52	34,326,000	11/20/23 10:15 AM	51	34,403,795	7.73
MH-B	11/13/23 10:35 AM	0	19,565,814	11/20/23 10:15 AM	0	19,685,485	11.90
MH-C	11/13/23 10:40 AM	0	38,394,721	11/20/23 10:19 AM	0	38,412,427	1.76
MH-D	11/13/23 10:46 AM	0	74,231,760	11/20/23 10:24 AM	0	74,439,251	20.63
MH-E	11/13/23 10:51 AM	OFF	212,740,442	11/20/23 10:30 AM	OFF	212,740,442	0.00
MH-F	11/13/23 11:03 AM	0	208,596,888	11/20/23 10:30 AM	0	208,803,498	20.56
MH-G	11/13/23 11:03 AM	0	205,591,925	11/20/23 10:39 AM	36	205,845,014	25.17
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**793,447,550**		**Total Gallons:**	**794,329,912**	
				Time period total gallons		**882,362**	

Total Average Flow (gpm)	**11/13/23**	**to 11/20/23**
		87.75

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	11/20/23 10:15 AM	51	34,403,795	11/27/23 10:33 AM	0	34,486,155	8.16
MH-B	11/20/23 10:15 AM	0	19,685,485	11/27/23 10:33 AM	40	19,808,479	12.18
MH-C	11/20/23 10:19 AM	0	38,412,427	11/27/23 10:39 AM	0	38,435,987	2.33
MH-D	11/20/23 10:24 AM	0	74,439,251	11/27/23 10:42 AM	48	74,678,335	23.68
MH-E	11/20/23 10:30 AM	OFF	212,740,442	11/27/23 10:44 AM	OFF	212,740,442	0.00
MH-F	11/20/23 10:30 AM	0	208,803,498	11/27/23 10:44 AM	0	209,032,384	22.68
MH-G	11/20/23 10:39 AM	36	205,845,014	11/27/23 10:48 AM	0	206,107,753	26.04
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**794,329,912**		**Total Gallons:**	**795,289,535**	
				Time period total gallons		**959,623**	

Total Average Flow (gpm)	**11/20/23**	**to 11/27/23**
		95.06

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	11/27/23 10:33 AM	0	34,486,155	12/4/23 10:18 AM	0	34,574,758	8.80
MH-B	11/27/23 10:33 AM	40	19,808,479	12/4/23 10:18 AM	33	19,935,203	12.59
MH-C	11/27/23 10:39 AM	0	38,435,987	12/4/23 10:22 AM	36	38,466,063	2.99
MH-D	11/27/23 10:42 AM	48	74,678,335	12/4/23 10:25 AM	47	74,927,400	24.75
MH-E	11/27/23 10:44 AM	OFF	212,740,442	12/4/23 10:28 AM	OFF	212,740,442	0.00
MH-F	11/27/23 10:44 AM	0	209,032,384	12/4/23 10:28 AM	53	209,267,262	23.34
MH-G	11/27/23 10:48 AM	0	206,107,753	12/4/23 10:38 AM	34	206,377,548	26.79
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**795,289,535**		**Total Gallons:**	**796,288,676**	
				Time period total gallons		**999,141**	

Total Average Flow (gpm)	**11/27/23**	**to 12/4/23**
		99.26

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
MH-A	12/4/23 10:18 AM	0	34,574,758	12/11/23 12:18 PM	0	34,710,642	13.32
MH-B	12/4/23 10:18 AM	33	19,935,203	12/11/23 12:18 PM	0	20,087,086	14.89
MH-C	12/4/23 10:22 AM	36	38,466,063	12/11/23 12:09 PM	37	38,517,440	5.04
MH-D	12/4/23 10:25 AM	47	74,927,400	12/11/23 12:04 PM	0	75,229,500	29.68
MH-E	12/4/23 10:28 AM	OFF	212,740,442	12/11/23 11:41 AM	OFF	212,740,442	0.00
MH-F	12/4/23 10:28 AM	53	209,267,262	12/11/23 11:41 AM	55	209,586,702	31.46
MH-G	12/4/23 10:38 AM	34	206,377,548	12/11/23 11:35 AM	35	206,711,425	32.94
MH-H	NA	OFF		NA	OFF		0.00
		Total Gallons:	**796,288,676**		**Total Gallons:**	**797,583,237**	
				Time period total gallons		**1,294,561**	

Total Average Flow (gpm)	**12/4/23**	**to 12/11/23**
		127.33

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	12/11/23 12:18 PM	0	34,710,642
MH-B	12/11/23 12:18 PM	0	20,087,086
MH-C	12/11/23 12:09 PM	37	38,517,440
MH-D	12/11/23 12:04 PM	0	75,229,500
MH-E	12/11/23 11:41 AM	OFF	212,740,442
MH-F	12/11/23 11:41 AM	55	209,586,702
MH-G	12/11/23 11:35 AM	35	206,711,425
MH-H	NA	OFF	
		Total Gallons:	**797,583,237**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
12/18/23 10:14 AM	0	34,868,608	15.87
12/18/23 10:14 AM	40	20,107,484	2.05
12/18/23 10:18 AM	0	38,566,550	4.93
12/18/23 10:22 AM	40	75,493,725	26.48
12/18/23 10:27 AM	OFF	212,740,442	0.00
12/18/23 10:27 AM	50	209,921,860	33.50
12/18/23 10:40 AM	37	206,753,967	4.24
NA	OFF		0.00
	Total Gallons:	**798,452,636**	
Time period total gallons		**869,399**	

Total Average Flow (gpm) 12/11/23 to 12/18/23
87.06

Manhole / Sump Flow Readings
Former Sinclair Refinery Site
Wellsville, New York

Location	Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)
MH-A	12/18/23 10:14 AM	0	34,868,608
MH-B	12/18/23 10:14 AM	40	20,107,484
MH-C	12/18/23 10:18 AM	0	38,566,550
MH-D	12/18/23 10:22 AM	40	75,493,725
MH-E	12/18/23 10:27 AM	OFF	212,740,442
MH-F	12/18/23 10:27 AM	50	209,921,860
MH-G	12/18/23 10:40 AM	37	206,753,967
MH-H	NA	OFF	
		Total Gallons:	**798,452,636**

Reading Date & Time	Instantaneous Flow (gpm)	Totalizer Reading (gallons)	Average Flow (gpm)
12/26/23 10:58 AM	0	35,048,813	15.58
12/26/23 10:58 AM	42	20,323,329	18.67
12/26/23 11:05 AM	0	38,621,677	4.77
12/26/23 11:07 AM	0	75,813,949	27.69
12/26/23 11:10 AM	OFF	212,740,442	0.00
12/26/23 11:10 AM	53	210,263,978	29.59
12/26/23 11:13 AM	36	207,128,022	32.38
NA	OFF		0.00
	Total Gallons:	**799,940,210**	
	Time period total gallons	**1,487,574**	

Total Average Flow (gpm)	**12/18/23**	**to 12/26/23**
		128.67

APPENDIX F

CORRESPONDENCE

Remediation Management Services Company

150 West Warrenville Road
Naperville, IL 60563

Office: (331) 702-3252
Mobile: (630) 386-0885
Mary.Wojciechowski@bp.com

September 7, 2018

Mr. Michael Negrelli
US Environmental Protection Agency – Region 2
ATTN: Wellsville Sinclair Refinery Site Manager
Western New York Remediation Section
290 Broadway, 20th Floor
New York, NY 10007

Mr. Maurice Moore
NYSDEC – Region 9
270 Michigan Avenue
Buffalo, NY 14203

RE: Request for Reduction of Operation, Maintenance, and Monitoring Scope
Former Sinclair Refinery
Wellsville, New York
USEPA ID NY-D9805215

Dear Sirs:

Atlantic Richfield Company (ARC) is currently completing operation, maintenance, and monitoring of two operable units (OU-1 and OU-2) for the above referenced site as detailed in the Operation, Maintenance, and Monitoring Plan (OM&M Plan) dated November 2012.

Based on six years of OM&M activities completed, ARC would like to request reductions of the current monitoring requirements. The proposed reductions include:

- CELA - Reduce the frequency of quarterly gas vent inspection and monitoring to semi-annually;
- Surface Flow Wetlands - Eliminate annual topsoil thickness measurements of vegetated platforms;
- Surface Flow Wetlands - Eliminate biennial dike land surveys; and
- Vertical Flow Wetlands - Eliminate biennial dike land surveys.

If some or all or the proposed monitoring reductions are approved by the USEPA and NYSDEC, these changes will be documented in the Annual Report for the Site and a revised OM&M Plan will not be issued.

CELA Gas Vent Inspection and Monitoring
The OM&M Plan for the Site requires quarterly gas vent monitoring for three years, with an evaluation following the completion of three years of monitoring. Four years of quarterly gas vent monitoring (between 2013 and 2016) were presented and discussed in the 2016 Annual Report of OM&M Activities, dated December 21, 2017. Based on the data, ARC respectfully requests to reduce gas vent monitoring from quarterly to a semi-annual frequency.

As detailed in the O&M Plan, photoionization (PID) readings will continue to be measured on a semi-annual basis: 1) directly at each vent; 2) approximately three feet upwind of each vent, and 3) approximately three feet downwind of each vent. This monitoring should be conducted between April and October on days with ambient temperatures at 70 degrees Fahrenheit or above. If a PID reading above background is detected three feet downwind of a vent, then a benzene colorimetric tube will be utilized to quantify benzene concentrations at that location. Vinyl chloride has not been detected using the colorimetric tubes and therefore vinyl chloride detector tube monitoring will be discontinued.

Surface Flow Wetland Topsoil Monitoring

The thickness of the topsoil in the surface flow wetlands has been measured annually as specified in the OM&M Plan. The thickness of the topsoil has been greater than the required three inches and is increasing. The purpose of the topsoil measurements are to ensure that there is adequate topsoil for the growth of cattails. Cattails have become well established over the last six years and are flourishing and the associated topsoil thickness has increased since first measured. As the topsoil thickness has increased and cattails continue to flourish, distinguishing topsoil from root mat has become increasingly difficult. ARC respectfully requests that this monitoring requirement be eliminated at this time.

Biennial Surface Flow and Vertical Flow Wetland Dike Land Survey

The surface flow and vertical flow wetland dikes have been surveyed every other year since their construction in compliance with the site OM&M Plan. The collected elevation data are compared to the design elevations. While some differences were noted in the 2016 Annual Report, no settling or other issues have arisen with the dikes and they continue to function as designed. ARC respectfully requests that the biennial survey of the surface flow and vertical flow wetland dikes be eliminated. In the event that there is an indication that the dikes may need to be surveyed again in the future, a survey will be completed.

Should you have any questions regarding this submittal, please feel free to contact me at (331) 702-3252 or Mary.Wojciechowski@bp.com.

Sincerely,

Mary Wojciechowski
Operations Project Manager
Remediation Management Services Company
An affiliate of BP Products NA Inc.

cc: Jerry Palmer, On-Site Technical Services, Inc.
Andrew Shrock, Parsons

Remediation Management Services Company

150 West Warrenville Road
Naperville, IL 60563

Office: (331) 702-3252
Mobile: (630) 386-0885
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September 7, 2018

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Western New York Remediation Section
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Mary Wojciechowski
Operations Project Manager
Remediation Management Services Company
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cc: Jerry Palmer, On-Site Technical Services, Inc.
Andrew Shrock, Parsons

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II
Emergency and Remedial Response Division
New York Remediation Branch
290 Broadway, 20th Floor
New York, New York 10007-1866

SEP 19 2018

Mary Wojciechowski
Operations Project Manager
Remediation Management Services Company
150 west Warrenville road
Naperville, IL 60563

Re: Request for Reduction of Operation, Maintenance, and Monitoring Scope; Sinclair Refinery Site, Wellsville, New York.

Dear Ms. Wojciechowski:

By this letter, I am providing you with approval by the U.S. Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation (NYSDEC) of the changes to the Operation, Maintenance, and Monitoring Plan, dated November 2012, for the Sinclair Refinery Superfund site, requested by you in your letter to EPA dated September 7, 2018. Specifically, you have requested changes to the following monitoring requirements:

- CELA - Reduce the frequency of quarterly gas vent inspection and monitoring to semiannually;
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- Vertical Flow Wetlands - Eliminate biennial dike land surveys.

EPA and NYSDEC agree with the reasoning for these changes as detailed in your letter.

Please let me know if you have any further questions on this matter.

Sincerely yours,

Michael Negrelli
Remedial Project Manager
New York Remediation Branch

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II
Emergency and Remedial Response Division
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290 Broadway, 20th Floor
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SEP 19 2018

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