15-MONTH REMEDIAL SYSTEM OPTIMIZATION PILOT TEST REPORT NOVEMBER 2022 – FEBRUARY 2024 MOHONK ROAD INDUSTRIAL PLANT SITE NYSDEC SITE NO. 356023

WORK ASSIGNMENT NO. D009809-25.2

Prepared for:

New York State Department of Environmental Conservation

Albany, New York

Prepared by:

Earth Environment Engineering and Geology, P.C.
Portland, Maine

EEEG: US-EI-7772210116

MAY 2025

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Submitted by:



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CERTIFICATION

I Nicole Murry Bonsteel, P.E. certify that I am currently a NYS registered professional engineer or Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this 15-Month Remedial System Optimization Pilot Test Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



Nicole Murry Bonsteel, P.E.

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GLOSSARY OF ACRONYMS AND ABBREVIATIONS

1,1,1-TCA	1,1,1-Trichloroethane
1,1,2-TCA	1,1,2-Trichloroethane
1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
BTOC	Below Top of Casing
COCs	Constituents of Concern
EEEG	Earth Environment Engineering and Geology, P.C.
GAC	Granular Activated Carbon
gpm	Gallons per Minute
GWETS	Groundwater Extraction and Treatment System
HFWD	High Falls Water District
MRIP	Mohonk Road Industrial Plant
µg/L	Micrograms per Liter
ND	Non-Detect
NTCRA	Non-Time-Critical Removal Action
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
PCE	Tetrachloroethene
PLC	Programmable Logic Controller
POET	point-of-entry treatment
ROD	Record of Decision
RSO	Remedial System Optimization
SIM	Selected Ion Monitoring
SVE	Soil Vapor Extraction
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
VFD	Variable Frequency Drive
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This 15-Month Remedial System Optimization Pilot Test (RSO Pilot Test) report evaluates the pilot test reporting performance period November 29, 2022 through February 29, 2024 at the Mohonk Road Industrial Plant (MRIP) Site (NYSDEC Site #356023). The RSO Pilot Test was conducted at the Site to evaluate the effectiveness of implemented well optimization at site extraction wells ERT-1, MW-5R and MW-7R on mass removal from the high VOC concentration water bearing fracture(s) while maintaining hydraulic control at the Site, and evaluation of potential mass removal within existing soil vapor extraction (SVE) points SVE-19, SVE-21 and SVE-22 located in the vicinity of the former source area.

The RSO Pilot Test performance indicated that extraction of increased VOC concentrations from water bearing fractures was affected by above average Site precipitation during the duration of RSO Pilot Test reporting period, resulting in dilution and decreased extraction VOC concentrations. Continued hydraulic control at the Site was achieved under the optimized extraction well configuration implemented for the RSO Pilot Test. Mass removal from SVE wells within the former source area was achieved but was determined not to be scalable to remedy through large scale extraction due to encountered low recharge values and poor hydraulic connectivity in the shallow bedrock.

The extraction well configuration is recommended to remain in place as implemented for the RSO Pilot Test to allow continued evaluation of extracted VOC concentrations under Site precipitation below the historic mean averages. GWETS operation and monthly GWETS performance sampling will continue, and groundwater quality sampling will resume at the required 15-month long-term monitoring frequency for the demonstration of hydraulic control at the Site. Further evaluation of potential remedial activities within the former source area is recommended.

1.0 INTRODUCTION

Earth Environment Engineering and Geology, P.C. (EEEG)[1] is pleased to submit the 15-Month Remedial System Optimization Pilot Test (RSO Pilot Test) report. This report evaluates the pilot test reporting period November 29, 2022 (commencement of the RSO Pilot Test) through February 29, 2024 at the Mohonk Road Industrial Plant (MRIP) Site (NYSDEC Site #356023). The intent of the RSO Pilot Test at the MRIP Site (hereafter "Site"), located at 186 Mohonk Road, Town of Marbletown, Ulster County, New York (see Figure 1), is to evaluate the extraction optimization of volatile organic compounds (VOCs) impacted groundwater from the high VOC concentration water bearing fracture(s) through the use of dedicated packer installations at each of the three Site extraction wells, ERT-1, MW-5R and MW-7R.

1.1 SITE OVERVIEW

The Site is a 14.5-acre parcel consisting of the MRIP building, a 43,000 square foot on-site commercial building, and the High Falls Water District (HFWD) drinking water treatment plant. The on-site commercial building is currently occupied by several commercial or light industrial businesses and is utilized as artisan studios, workshops and storage areas including woodworking, painters, sculptors, candle makers, and a bread distributor. The drinking water for the Site and surrounding properties is supplied by the HFWD; a source not affected by the contamination at the site.

In 1994, groundwater at a nearby residential property was determined to be contain VOCs above the New York State (NYS) drinking water standards. Subsequent sampling identified at least seventy (70) residential and business properties having VOC groundwater impacts. As a result of the findings, the New York State Department of Environmental Conservation (NYSDEC) provided the residents with point-of-entry treatment (POET) systems using granular activated carbon (GAC) filters at preexisting residence or businesses whose potable water supply exceeded NYS drinking water standards.

[1] Prior to June 2024, Earth Environment Engineering and Geology, P.C. (EEEG) was formerly known as MACTEC.

The NYSDEC performed several investigations to determine the source and extent of groundwater contamination at the Site from 1996 to 1998. Based on the findings of the initial investigations, 1,1,1-Trichloroethane (1,1,1-TCA), 1,1-dichloroethene (DCE), 1,1-dichloroethane (DCA), trichloroethene (TCE), tetrachloroethene (PCE), ethylbenzene and xylenes were identified as contaminants of concern in site soils and groundwater.

The potential point source was identified as a 1,000-gallon septic tank, originally associated with the septic system but subsequently used for solvent disposal at the site at the Site property, removed by the NYSDEC in 1997. The Site then was added to the Superfund National Priorities List, and control over Site activities was relinquished to the United States Environmental Protection Agency (USEPA). The USEPA conducted a non-time-critical removal action (NTCRA) designed to minimize the further migration of the most highly contaminated portion of the groundwater plume. The NTCRA included the construction of a Groundwater Extraction and Treatment System (GWETS) which became operational in May 2000. In 2011 the operation of the GWETS was transferred to the NYSDEC who continues to operation of the GWETS.

The 2000 Record of Decision (ROD) selected remedy was:

- Contaminant reduction through the extraction of groundwater in the near field and far field plume to restore the aquifer to its most beneficial use (as a potable water supply), treatment with an air stripper, and discharge of the treated water to the nearby Rondout Creek and Coxing Kill Creek. The “near field” plume is defined as the groundwater plume area where total groundwater VOC concentrations are greater than 1,000 parts per billion (micrograms per liter [µg/L]); the “far field” plume is defined at the groundwater plume area where total groundwater VOC concentrations are between 10 µg/L and 1,000 µg/L.
- The High Falls Water Treatment Facility was constructed as a public water supply system to provide potable water to the residences and businesses in the Towns of Marbletown and Rosendale with impacted or threatened private supply wells. The primary water supply for the system will be the Catskill Aqueduct and individual granular activated carbon filtration systems will be operated until the new public water supply system is operational.
- Implementation of a groundwater monitoring program to evaluate the effectiveness of the remedy.

1.2 RSO PILOT TEST OVERVIEW

In an effort to reduce the amount of treated groundwater and maintain hydraulic control, while increasing the VOC mass removal from the groundwater, the RSO Pilot Test was designed for optimization of the GWETS to target select bedrock fracture zones for recovery of increased VOC mass removal from groundwater while restricting the deeper, less impacted, groundwater aquifer.

Based on information gathered during the 2016 RSO investigation (MACTEC 2016), the RSO Pilot Test was designed to include the following components illustrated on Figure 2:

- GWETS extraction well optimization through the installation of dedicated packers at extraction wells ERT-1, MW-5R, and MW-7R.
- GWETS performance and monitoring.
- Soil Vapor Extraction (SVE) point mass removal at SVE points SVE-19, SVE-21, and SVE-22.
- Groundwater analytical sampling of RSO Pilot Test monitoring wells and extraction wells.
- Groundwater Elevation data collection via dedicated data loggers at Pilot Test monitoring wells ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B[2].

1.3 PRE-RSO PILOT TEST ACTIVITIES

RSO pre-Pilot Test activities were conducted between March 16 and November 29, 2022, in preparation of the commencement of the RSO Pilot Test and included the activities discussed within the First Reporting Period RSO Pilot Test Report (MACTEC 2024) and generally summarized below. Refer to Appendix A – RSO Pilot Test Setup.

[2] Manual water levels were collected monthly to true the data logger elevations. Data logger data was used for creation of tables and figures.

1.3.1 Data Logger Installation

On July 6, 2022, EEEG installed six (6) In-Situ Level Troll 700 data loggers[3] into monitoring wells ERT-4, MW-4, MW-5, MW-11B, MW-12B and MW-15B[4]. The data loggers were set to collect groundwater elevation data every ten minutes throughout the pilot test. Between July 2022 and August 2022, the data loggers recorded pre-pilot groundwater elevation data under normal GWETS pumping conditions. Between September 2022 and November 2022, operation of the GWETS was ceased in preparation of the RSO extraction well activities, and the data loggers recorded pre-pilot groundwater elevation data under static non-pumping conditions. On November 29, 2022, the GWETS was returned to operational status and the data loggers began recording groundwater elevation data under RSO Pilot Test pumping conditions.

Before the start of the pilot test, the groundwater elevation data logger at pilot test monitoring well MW-11B suffered a failure due to a manufacturing defect. The data logger was replaced and reinstalled on October 11, 2022. All groundwater elevation data recorded at MW-11B before October 11, 2022 was lost but the logger has functioned properly since the reinstallation date. The loss of this pre-pilot test data has no impact on the pilot test.

1.3.2 Extraction Well Trenching and Conduit Installation

Between July 14, 2022, the last performance sampling under normal GWETS pumping conditions, and August 17, 2022, the NYSDEC Remedial Contractor, Aztech, performed brush clearing and excavation of conduit trenching for the subsurface placement of new electrical, nitrogen, and communication lines between the GWETS plant and extraction monitoring well pump head locations. The conduit trench installation, completed on August 18, 2022, included upgraded electrical power lines for the extraction wells, nitrogen lines for pressurization of the dedicated extraction well packers, and communication lines connecting the extraction well equipment to the programmable logic controller (PLC) in the GWETS building. A centralized nitrogen cylinder containing a pressure gauge was installed in the GWETS building to supply the neutral gas that would keep the packers inflated during the pilot test. No existing extraction well groundwater conveyance lines were encountered or modified during the installation of the newly installed conduit lines.

[3] In-Situ Level Troll 700 data loggers were purchased in June of 2022 by EEEG on behalf on the NYSDEC for installation into the selected Pilot Test monitoring wells.
[4] On March 5, 2023, the USGS installed an additional data logger in MW-15B. The USGS data logger does not interfere with the pilot study data logger operation.

1.3.3 Groundwater Extraction Well Optimization Activities

Between August 17, 2022 and August 25, 2022, the groundwater extraction well optimization was completed via the installation of dedicated packers, new pumps, and electrical components and controls at each extraction wellheads ERT-1, MW-5R, and MW-7R. EEEG provided oversight of the RSO installations and initial pumping operations of the extraction wells (ERT-1, MW-5R, and MW-7R). The NYSDEC Remedial Contractor, Aztech, performed the system optimization modifications and pumping operations of the three extraction wells.

The packers were installed within the extraction wells to prevent the deeper, less impacted groundwater, from being extracted from the borehole below the depth of the packer installation. The pump and packer installations were completed under the direction of the project hydrologist between August 19 through August 24, 2022 as follows:

- The ERT-1 pump and packer installation: the bottom of the pump was set at 122’7” Below Top of Casing (BTOC), top of the packer was set at 125’ BTOC.
- The MW-5R pump and packer installation: the bottom of the pump was set at 99’2” BTOC, the top of the packer was set at 102’ BTOC.
- The MW-7R pump and packer installation: the bottom of the pump was set at 105’7” BTOC, the top of the packer was set at 109’ BTOC.

On August 25, 2022 Aztech installed new panel boxes and electrical components, including Variable Frequency Drives (VFDs), at the three wellheads. The initial testing of the system was completed during the first week of September, 2022. During the initial testing, it was confirmed that the packers remained inflated, the new pumps were operational, and the new components were communicating with the existing system effectively. The GWETS then remained non-operational until the pilot test commencement on November 29, 2022 to allow the Site hydrology to return to static conditions.

1.3.4 RSO Pilot Test Commencement

On November 29, 2022, after the Site groundwater was allowed to return to static conditions while the GWETS was not operating, representatives from NYSDEC, Aztech and EEEG met at the Site

for the RSO Pilot Test system startup and to complete first round of monthly site visit activities. See Appendix A – RSO Pilot Test Setup.

- On November 29, 2022 the system was started at 1330.
- the SVE points were purged and their recharge was monitored, and groundwater elevation data was collected.
- ERT-1 was set to run at 9.5 gallons per minute (gpm), MW-5R was set to run at 9.0 gpm, and MW-7R was set to run at 7.5 gpm.
- On December 1, 2022 the flows were increased to meet the initial combined operational target flow rate of 25 gpm with ERT-1, MW-5R and MW-7R producing approximately 9.5 gpm, 7.2 gpm and 8.3 gpm, respectively.

Between the system startup on November 29, 2022 and December 2, 2022, representatives from EEEG and Aztech monitored and adjusted the GWETS extraction well flows, monitored general system performance, and monitored groundwater elevations to ensure proper operation of the system.

2.0 REMEDIAL SYSTEM OPTIMIZATION PILOT TEST

The RSO Pilot Test, commenced at the Site on November 29, 2022, was implemented for fifteen months[5] with the objective of optimization of the extraction of groundwater from the shallow, elevated VOC concentration water bearing fracture(s), increasing VOC mass removal from groundwater while maintaining hydraulic control at the Site, and evaluation of potential mass removal within the former source area through existing SVE points. The RSO Pilot Test[6] included the modification of GWETS extraction wells, monthly GWETS performance sampling, monthly groundwater purging of source area soil vapor extraction (SVE) points, quarterly groundwater quality sampling at GWETS extraction monitoring wells and Pilot Test Monitoring Wells, and continuous water level readings at Pilot Test Monitoring Wells. Refer to Table 1 and Figure 3 for the Site Monitoring Well Network and Figure 2 for illustration of the RSO Pilot Test components.

The 15-Month RSO Pilot Test report documents the following site information collected to monitor, evaluate, and optimize the RSO Pilot Test GWETS performance:

- Daily compilation and evaluation of the GWETS site data generated through the remote operation.
- Continuous depth to groundwater in monitoring wells (6) and extraction wells (3) and monthly data download of dedicated groundwater elevation data loggers
- Monthly GWETS performance sampling.
- Monthly SVE point source area mass removal and recovery documentation.
- VOC Groundwater sampling of the Extraction Wells (3) and Pilot Test Monitoring Wells (6) (November 2022, May 2023[7], August 2023, November 2023, and February 2024).

[5] The duration of the RSO Pilot Test, originally planned for 12 months, was extended to 15 months to address the increased aquifer storage resulting from above average precipitation encountered during the pre-pilot test GWETS downtime, and to allow more time to lower groundwater elevations to the targeted water bearing fracture(s) intervals.
[6] During the Pilot Test, the NYSDEC Remedial Contractor, Aztech, completed the following RSO Pilot Test field activities: monthly daily GWETS data log compilation, GWETS adjustments, monthly GWETS performance sampling, and monthly SVE point area mass removal and recharge documentation through December 2023. EEEG performed the RSO Pilot Test field activities from January 2024 through February 2024.
[7] Long Term Monitoring (LTM) takes place at the Site every 15-months with up to 25 locations sampled. The May 2023 RSO Pilot Test groundwater sampling event coincided with the 2023 LTM. See Table 1 for details of the LTM monitoring well network.

- VOC Grab groundwater sampling of SVE point sampling of SVE-19, SVE-21, and SVE-22 (December 2022, May 2023, August 2023, November 2023, and February 2024).

2.1 GWETS EXTRACTION WELL OPTIMIZATION

The GWETS extraction wells ERT-1, MW-5R and MW-7R were modified in an attempt to optimize their effectiveness. ERT-1, MW-5R and MW-7R have total depths of 195' bgs, 125' bgs and 180' bgs respectively. These wells were modified for the RSO Pilot Test to target water bearing fracture(s) exhibiting elevated VOC concentrations. These fractures were identified during 2016 RSO Pilot Test (MACTEC, 2016) at 114'-116' bgs (ERT-1), 92.5'-93.5' bgs (MW-5R), and 93.5'-99' bgs (MW-7R). The extraction well modification at ERT-1, MW-5R, and MW-7R included the installation of dedicated 5 ft. 6 in. diameter packers designed and supplied by Lansas to isolate the target water bearing fracture(s) for extraction, with the goal of increasing contaminant VOC concentrations in the GWETS influent. The packers are inflated using nitrogen sourced from the GWETS plant building via the conduit trenching to each well head. New Franklin pumps, 1.5 hp (ERT-1), 1 hp (MW-5R), and 1 hp (MW-7R) were also installed within the GWETS extraction wells concurrently with the installation of the dedicated packers.

The design elevation and placement of the packers and pumps is discussed further in Section 3.2. A photo log of the RSO Pilot Test setup, as-built diagrams of the wells with the pilot test packers and pumps installed, and schematic drawing of a Lansas packer can be found in Appendix A – RSO Pilot Test Setup.

2.2 GWETS OPERATION AND PERFORMANCE

The GWETS is remotely operated with an Eos ProControl PLC. The ProControl sends daily emails which report the status of each GWETS component. Critical Pilot Test data received via the daily emails includes extraction well water levels (feet below TOC) and pumping rate (gallons per minute) for each extraction well; indicating that the GWETS is pumping and maintaining hydraulic control and the system nitrogen pressure; indicating that the packers remain inflated and the GWETS is targeting the intended pilot test zones. The ProControl also sends emergency notifications to the operator(s) when an alarm is triggered by a GWETS component, allowing them to remotely assess

and respond to the alarm. If an alarm condition cannot be remedied remotely, an emergency visit is scheduled to further diagnose or remedy the alarm condition.

The Site GWETS is a groundwater recovery system with water treatment via air stripping. The performance monitoring of the GWETS, including the air stripper, is completed on a monthly basis and includes the collection of influent sampling from extraction wells ERT-1, MW-5R, and MW-7R, Pre-Air Stripper Combined Influent, and Air Stripper Effluent grab sampling for VOCs, TDS, TSS, Iron, pH, and 1-4-Dioxane analysis.

GWETS operation and performance were monitored through the collection of the following RSO Pilot Test information:

- Daily GWETS data log compilation and evaluation of the GWETS site data generated through the remote operation of the GWETS (refer to Table 2), including volume of water pumped, downtime for the system, and GWETS operation notifications, was reviewed to determine and implement required GWETS and VFD adjustments.
- Monthly GWETS performance sampling conducted by the NYSDEC Remedial Contractor and/or Environmental Consultant for collection of influent/effluent data to evaluate the RSO Pilot Test performance as summarized in Table 3[8].

2.2.1 Groundwater Extraction Wells Pumping Rates and Volume Treated

Pilot Test extraction wells MW-5R, and MW-7R, and ERT-1 were in operation during the 15-month RSO Pilot Test. Individual flow rates (gpm) were recorded throughout the RSO Pilot Test and the combined total for the extraction system. The total extraction well flow rate ranged from a minimum of 0 gpm to a maximum of 32 gpm with an average daily flow rate of 25 gpm during the RSO Pilot Test. The original operational target flow rate for MW-5R, MW-7R, and ERT-1 was 7.5 gpm, 7.5 gpm, and 10 gpm respectively, with a total 25 gpm target flow rate for the extraction system.

[8] GWETS Performance Sampling and data results summary table was completed and provided by the NYSDEC Remedial Contractor, Aztech through December 2023 and by EEEG for January 2024 through February 2024.

As the pilot test progressed, the decision was made to increase the operational target flow rate to 30 gpm. At the increased target flow rate MW-5R, MW-7R, and ERT-1 were operating at approximately 7.5 gpm, 12.5 gpm, and 9.8 gpm, respectively. The operational target flow rate was increased in an attempt to depress the higher-than-normal groundwater table levels encountered at the beginning of the RSO Pilot Test to pre-pilot test elevations under normal (unmodified) pumping conditions.

During the 15-month RSO Pilot Test, approximately; 5,509,471 gallons, 4,456,497 gallons, and 6,783,008 gallons groundwater were extracted and treated from extraction wells MW-5R, MW-7R, and ERT-1 respectively based on extraction well (EW) flow meter readings.

2.2.2 Operations and GWETS Downtime

The GWETS operated for 94% of the 15-month RSO Pilot Test (November 29, 2022 through February 29, 2024), with the extraction wells offline for limited amounts of time (i.e., no more than five (5) consecutive days) for maintenance and repair activities. As described below, the GWETS shutdowns (Table 2) resulted in a total downtime of approximately 26 days during the reporting period; these shutdowns did not impact monitoring activities or the overall effectiveness of the GWETS.

- On December 13, 2022 the on-call operator received a power failure call out due to heavy storms. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for the manual reset and restart of the GWETS. The system was offline for 20.5 hours.
- On December 16, 2022 the on-call operator received a power failure call out due to heavy storms. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for the manual reset and restart of the GWETS. The system was offline for 3 days, 11 hours due to power failure after hours on a Friday evening.
- On December 24, 2022 the on-call operator received a “DSCVDF” alarm. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for troubleshooting, error clearing, GWETS maintenance, and the manual reset and restart of the GWETS. The system was offline for 3 days, 18 hours due to power failure alarm after hours on a holiday/weekend.

- On December 30, 2022 the on-call operator received a "Wet Floor" alarm. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for troubleshooting, GWETS maintenance, error clearing, and the manual reset and restart of the GWETS. The system was offline for 4 days, 16 hours due to power failure alarm after hours on a Friday/holiday.
- On January 14, 2023 the on-call operator received an "XFRVFD" power failure alarm. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for troubleshooting, error clearing, GWETS maintenance, and the manual reset and restart of the GWETS. The system was offline for 3 days, 9 hours due to power failure alarm after hours on a weekend.
- On March 15, 2023 the on-call operator received a GWETS daily system data log indicating that the wells were operational, but the discharge pump was not operational. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for troubleshooting, GWETS maintenance, and the manual reset and restart of the GWETS. The system was offline for approximately 36 hours.
- On March 29, 2023 the on-call operator received a power failure alarm due to the Water temp sensor damaged (animal chewing) which created a short, combined with surge suppressor failure. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for troubleshooting, GWETS maintenance, and the manual reset and restart of the GWETS. The Pro controller required repair and was replaced with different unit and reactivated. The system was offline for approximately 13 hours.
- On May 25, 2023 the on-call operator received a power failure call out due to heavy storms. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for the manual reset and restart of the GWETS. The system was offline for 6 hours.
- On June 9, 2023 the on-call operator received an insufficient air stripper pressure alarm. Remote reset of GWETS was successful. The system was offline for 12 hours (June 8 into June 9).
- On June 27, 2023 the on-call operator received a low flow alarm. Remote reset of GWETS was successful. The system was offline for 6 hours.

- On July 24, 2023 the on-call operator received a transfer pump VFD MOM power failure call out. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for the manual reset and restart of the GWETS. The system was offline for 11 hours.
- On August 13, 2023 the on-call operator received a power failure call out due to heavy storms. Remote reset of GWETS was successful. The system was offline for 14 hours.
- On September 8, 2023 the on-call operator received a transfer pump VFD MOM power failure call out. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for the manual reset and restart of the GWETS. The system was offline for 3 days 2 hours.
- On October 3, 2023 the on-call operator received a wet floor alarm call out. Remote reset was not successful, and the remedial contractor was required to mobilize to the site to replace the fouled sensor and restart the GWETS. The system was offline for 16 hours.
- On October 5, 2023 the on-call operator received a power failure call out due to utility power failure. Remote reset of GWETS was successful. The system was offline for 24 hours.
- On December 18, 2023 the on-call operator received a power failure call out due to storms. Remote reset was not successful, and the remedial contractor was required to mobilize to the site for the manual reset and restart of the GWETS. The system was offline for 12 hours.
- On January 13, 2024 the on-call operator received a transfer tank VFD power failure call out. Remote reset of the GWETS was successful. The system was offline for 12 hours.

2.2.3 RSO PT GWETS Monthly Performance Sampling

GWETS performance sampling was completed monthly between December 2022 and February 2024. Influent samples from extraction wells MW-5R, MW-7R, and ERT-1, a Pre-Air Stripper Combined Influent and a Post Air Stripper Effluent sample were collected on a monthly basis in accordance with the SPDES Permit Equivalent Effluent Limitations and Monitoring Requirements. The monthly performance samples were analyzed for the parameters listed in the required monitoring table contained on page 2 of the SPDES Permit Equivalent: Mohonk Road Industrial Plant, DER Site# 356023. Refer to Appendix B – SPDES Permit Equivalent. The GWETS performance sampling

results are included in Table 3 and associated EDDs[9] have been uploaded to NYSDEC EQUIS database.

Over the course of the pilot test monthly GWETS performance influent sampling results generally declined. GWETS performance Pre Air Stripper Combined Influent sampling maximum and minimum results for VOCs and 1,4-Dioxane during the RSO Pilot Test are as follows:

- 1,1,1-TCA maximum concentration of 87.4 ug/L (November 2022); minimum concentration of 15.8 ug/L (July 2023)
- 1,1-DCA maximum concentration of 23.5 ug/L (November 2022); minimum concentration of 1.67 (July 2023)
- 1,1-DCE maximum concentration of 27.5 ug/L (February 2023[10]); minimum concentration of 4.16 ug/L (July 2023)
- TCE maximum concentration of 7.70 ug/L (February 2023); minimum non-detect (ND) concentration (October 2023)
- 1,4-Dioxane maximum concentration of 6.2 ug/L (November 2022); minimum concentration of 1.7 ug/L (September 2023)

Class GA standards and guidance values were used for comparison to the treated groundwater being discharged. These numerical limits are applicable at the point of treated groundwater effluent discharge at the end of the force main which leads to the Coxing Kill.

Effluent compliance samples, collected monthly during the 15-Month RSO Pilot Test (December 2022 and February 2024), were all within the SPDES permit equivalent limits, with exception of the sample collected on May 16, 2023 which exceeded both the 1,1,1-TCA SPDES permit equivalent daily maximum limit (10 µg/L) and NYS Class GA Standard (5 µg/L) at a concentration of 29 µg/L, and exceeded the 1,1-DCE NYS Class GA standard (5 µg/L) at a concentration of 7.35 µg/L. The laboratory reported near identical sample results for the May 16, 2023 Pre Air Stripper Combined

[9] GWETS performance sampling EDDs for data generated during the RSO Pilot Test field activities between January 2024 and February 2024 have been uploaded to the NYSDEC EQUIS database. Prior to January 2024, data generated during the GWETS performance sampling was collected and managed by the NYSDEC Remedial Contractor, Aztech, therefore, these EDDs have not been uploaded by EEEG.

[10] February 2023 Monthly Performance sampling Combined Influent included MW-5R and MW-7R extraction well influent; no influent sampled collected from ERT-1 in February 2023 as extraction well was offline.

Influent of 28.4 µg/L (1,1,1-TCA) and 7.24 µg/L(1,1-DCE) and Air Stripper Effluent of 29.0 µg/L (1,1,1-TCA) and 7.35 µg/L(1,1-DCE). The analytical data package and constituents of concern (COCs) were reviewed to confirm the reported results and determined that the possibility of potential human and/or laboratory error or incorrect sample submittals cannot be verified. The air stripper was functioning normally; therefore, the plausible explanation for the similarity in results is that incorrect samples were submitted for analysis. It is likely that sample results are not representative of treated groundwater effluent. The issue was not repeated after May 2023 and all subsequent effluent monthly sampling results were in compliance with the SPDES permit, therefore additional evaluation was not warranted.

2.3 SVE SOURCE AREA MASS REMOVAL

SVE source area mass removal activities completed monthly between November 2022 and February 2024 included gauging and purging[11] of all standing groundwater from the SVE points via pumping, and documentation of the SVE point recovery over time. VOC grab sample analysis for SVE points SVE-19, SVE-21, and SVE-22 were additionally collected in February 2023, May 2023, August 2023, December 2023 and February 2024. The objectives of the SVE source area mass removal activities were to evaluate the seasonal effects of groundwater levels and groundwater recharge on contaminant concentrations present in the bedrock SVE point groundwater, and to evaluate the effectiveness of contaminant mass removal via SVE point purging. Refer to Table 4a – 4c and Appendix C for collected monthly SVE Source Area Mass Removal summaries and field data.

2.3.1 SVE Source Area Gauging and Groundwater Purging

The initial SVE source area gauging and groundwater purging event, conducted in November 2022, was conducted over a four-day period to document the groundwater recovery of the SVE points over an extended period of time in order to evaluate the viability of using the SVE points as an effective contaminant recovery system. The groundwater purging and gauging was repeated monthly during the pilot test. During the December, January, February and March 2023 SVE point purging and gauging events, recovery was recorded over a time period ranging from 3 hours to 30 minutes. From April 2023 through February 2024, with the exception of September 2023[12], the process was

[11] SVE point purging was completed via pumping by dedicated submersible pumps.
[12] September 2023 event recovery was observed every 30 minutes over a 2 hour recovery period.

standardized to a 4-hour recovery period with groundwater elevation measurements collected every 30 minutes.

During the gauging and purging process, the volume of groundwater purged from the SVE points was recorded along with the rate of recovery. Groundwater removed during the monthly SVE source area purging events was containerized and treated through the Site GWETS.

The SVE point rate of recovery was calculated as percentage of feet of water over time for each monthly SVE source area mass removal event. The 15-month reporting period average calculated recovery rates for a recovery timeframe of 4 hours for SVE-19, SVE-21, and SVE-22 were 16%, 13%, and 40%, respectively (Tables 4a – 4c). In terms of volume per minute of recovery, the rates for SVE-19, SVE-21 and SVE-22 were 38.6 ml/min (0.010 gal/min), 24.4 ml/min (0.006 gal/min) and 83.6 ml/min(0.022gal/min), respectively.

2.3.2 SVE Source Area Mass Grab VOC Sampling

Grab VOC groundwater samples were collected from SVE points SVE-19, SVE-21, and SVE-22 for VOCs via USEPA Method 8260 during the 15-month reporting period of the RSO Pilot Test on February 22, 2023, May 16, 2023, August 29, 2023, December 7, 2023, and February 6, 2024. Aztech collected SVE groundwater samples for VOCs in December 2022; however, due to a laboratory error the CPOCs were not reported by the laboratory.

The SVE VOC grab samples contained elevated concentrations of Site constituents 1,1,1-TCA, 1,1-DCA, 1,1-DCE, and TCE. The SVE grab sample VOC results for SVE-19, SVE-21 and SVE-22 are included in Table 5, associated EDDs[13] have been uploaded to NYSDEC EQUIS database, and the sampling field forms can be found in Appendix C.

[13] SVE grab sampling EDDs for data generated during the RSO Pilot Test field activities between January 2024 and February 2024 have been uploaded to the NYSDEC EQUIS database. Prior to January 2024, data generated during the SVE grab sampling was collected and managed by the NYSDEC Remedial Contractor, Aztech, therefore, these EDDs have not been uploaded by EEEG.

2.4 GROUNDWATER QUALITY MONITORING

The RSO Pilot Test groundwater quality program was designed to monitor the effectiveness of the extraction well modifications on the removal of increased contaminant levels in groundwater, and to evaluate pilot test trends of contaminant concentrations in groundwater. This was accomplished through the collection of continuous water level measurements from six (6) Pilot Test monitoring wells and groundwater sampling and analysis of six (6) Pilot Test and three (3) extraction wells.

Groundwater quality sampling activities completed in November 2022, May 2023, August 2023, November 2023[14], and February 2024 included the collection of groundwater samples from the six (6) Pilot Test monitoring wells (ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B) containing dedicated groundwater elevation data logger transducers, and the three (3) extraction wells (MW-5R, MW-7R, and ERT-1) as depicted on Figures 2 and 3. Refer to Figures 4 and 5, and for VOCs and 1,4-dioxane groundwater sample results, respectively, and Appendix E for collected groundwater quality sampling field data. The groundwater quality sampling results are included in Tables 7a -7e and associated EDDs[15] have been uploaded to NYSDEC EQUIS database.

2.4.1 Groundwater Level Measurements

Groundwater-level measurements were collected from designated monitoring wells and extraction wells on January 17, 2022 (baseline under normal pumping conditions – Figure 6a), November 2022 (pre-pilot under non-pumping conditions – Figure 6b), as well as May 2023, August 2023, November 2023, and February 2024 (under RSO Pilot Test pumping conditions – Figures 6c – 6f). These measurements are presented in Tables 6a – 6f, respectively, and have been used to assess groundwater-flow directions and the extent of groundwater capture under various pumping conditions.

The contours presented on each of the groundwater elevation (Figures 6a through 6f) were developed using a combination of triangulation and interpolation based on an understanding of the site specific

[14] VOC samples for MW-4, MW-15B, and VOC duplicate, collected on November 8, 2023 were required to be resampled on November 30, 2023 due to laboratory error (VOAs breakage prior to analysis). EEEG returned to the site under NYSDEC approval to recollect VOC samples for MW-11B and MW-15B and VOC duplicate. The remaining VOC and 1,4-dioxane samples collected on November 8 and 9, 2023 were analyzed without issue.

[15] Groundwater quality sampling data EDDs for data generated during the RSO Pilot Test have been uploaded to the NYSDEC EQUIS database.

hydrogeologic characteristics of the subsurface. The groundwater flow direction under the GWETS operation (baseline pumping conditions) and pre-Pilot Test (non-pumping static conditions) is generally to the north, consistent with prior data. The groundwater flow direction under RSO Pilot Test pumping conditions is generally to the north/northeast, with groundwater flow within the zone of capture (depression area) towards the extraction wells. There is a pronounced groundwater depression (Figures 6c – 6f) after the modified pumping of the RSO Pilot Test compared to the baseline under normal pumping conditions (Figure 6a) demonstrating hydraulic control during the RSO Pilot Test.

2.4.2 Groundwater Quality Sampling

The baseline and RSO Pilot Test groundwater quality sampling events were conducted in January 2022 (baseline), May 2023, August 2023, November 2023, and February 2024. The January 2022 and May 2023 sampling rounds included wells normally part of long-term monitoring (LTM) events which are outside the hydraulic influence of the pilot testing. For the purposes of this RSO Pilot Test report, the groundwater quality sampling results review and discussion will only address the Site monitoring wells associated with the RSO Pilot Test: monitoring wells ERT-4, MW-4, MW-5, MW-11B, MW-12B and MW-15B, and extraction wells MW-5R, MW-7R, and ERT-1.

Field measurements for pH, temperature, specific conductivity, oxidation reduction potential, turbidity, and dissolved oxygen were collected through a flow through cell from each monitoring well during pre-sample purging. Field measurements and monitoring well sampling activities were documented using Low Flow Sampling Field Data Records. Groundwater samples were collected during the sampling events via low-flow or grab sampling[16] procedures.

Groundwater samples were submitted to Pace Analytical Laboratories/Alpha Analytical Laboratories[17] for laboratory analysis of VOCs by USEPA Method 8260D and for analysis of 1,4-dioxane by method 8270E Selected Ion Monitoring (SIM) with data results reported in a Category B

[16] Grab sampling was conducted for extraction wells MW-5R, MW-7R, and ERT-1 via the GWETS dedicated performance sampling ports.
[17] Groundwater analytical samples were submitted to Pace Analytical Laboratories, East Longmeadow, Massachusetts under the NYSDEC Laboratory Standby Laboratory contract through December 2023 and to Alpha Analytical Laboratories (now known as Pace Analytical Laboratories), Westborough, Massachusetts under the EEEG Standby Laboratory contract January 2024 – February 2024.

deliverable and evaluated in accordance with the NYS Class A Guidance Standards and Guidance Values.

The baseline and RSO Pilot Test groundwater quality sampling results for 1,4-dioxane and VOCs (primary compounds and parameters detected at concentrations exceeding NYS Class GA water quality standards) are summarized in Tables 7a through 7e. The RSO pilot test groundwater sampling field sheets and data validation reports can be found in Appendices E and F, respectively. The baseline January 2022 groundwater sampling field sheets and data validation report can be found as reported in previous Site documents.

2.4.2.1 VOC Groundwater Results

The baseline and subsequent RSO Pilot Test groundwater quality sampling revealed elevated concentrations of VOCs at concentrations exceeding New York State Class GA (NYS Class GA) Groundwater Standards at each of the pilot test and extraction monitoring wells. The principal compounds detected at concentrations exceeding NYS Class GA criteria included 1,1,1-Trichloroethane (1,1,1-TCA), 1,1,2-Trichloroethane (1,1,2-TCA), 1,1-Dichloroethane (1,1-DCA), 1,1-Dichloroethene (1,1-DCE), 1,2-Dichloroethane (1,2-DCA), cis-1,2-Dichloroethene (cis-1,2-DCE), and Trichloroethene (TCE). These seven VOCs were used to calculate the total VOC concentrations for the RSO Pilot Test evaluation.

With the exception of select monitoring wells, the total VOC concentrations in pilot test and extraction wells have generally decreased between the baseline sampling event (January 2022) and the end of the pilot test study (February 2024), as illustrated on Figure 4 and discussed below:

Pilot Test Monitoring Wells:

- The wells that historically contain the highest total VOC concentrations, MW-4, MW-5B and ERT-4, either slightly decreased from 1089 µg/L to 932 µg/L (MW-4) or increased from 777 µg/L to 1089 µg/L (MW-5B), and from 1879 µg/L to 2456 µg/L (ERT-4).
- Wells located further downgradient of the extraction wells historically containing much lower total VOC concentrations, MW-11B, MW-12B, and MW-15B, either slightly

increased from 8.1 µg/L to 9.7 µg/L (MW-11B) or decreased from 32 µg/L to 5.8 µg/L (MW-12B) and from 40 µg/L to 34 µg/L (MW-15B).

Extraction Wells:

- Extraction wells MW-5R and ERT-1 total VOC concentrations decreased between the baseline and end of the pilot test for MW-5R (96 µg/L to 39 µg/L) and ERT-1 (93 µg/L to 74 µg/L) while total concentrations increased slightly for MW-7R (127 µg/L to 132 µg/L).

RSO Pilot Test groundwater maximum VOC concentrations detected in the baseline January 2022 and RSO Pilot Test samplings events are summarized in the table below.

Constituent	Baseline Sampling / Pre RSO January 2022	May 2023**	August 2023	November 2023	February 2024
1,1,1-TCA	1,530 µg/L (ERT-4)	1,000 µg/L (ERT-4)	2,300 µg/L (ERT-4)	1,400 µg/L (ERT-4)	2,100 µg/L (ERT-4)
1,1,2-TCA	2.2 µg/L (ERT-4)	ND*	ND*	1.45J µg/L (MW-5B)	ND*
1,1-DCA	46.8 µg/L (ERT-4)	29 µg/L (ERT-4)	51 µg/L (ERT-4)	50 µg/L (ERT-4)	46 µg/L (ERT-4)
1,1-DCE	173 µg/L (ERT-4)	82 µg/L (ERT-4)	210 µg/L (ERT-4)	160 µg/L (ERT-4)	210 µg/L (ERT-4)
1,2-DCA	3.2J µg/L (ERT-4)	ND*	ND*	ND*	1.2J µg/L (MW-4)
cis-1,2-DCE	8.3 µg/L (MW-4)	6.8 µg/L (ERT-4)	12 µg/L (MW-4)	11 µg/L (MW-4)	11 µg/L (MW-4)
TCE	253 µg/L (MW-4)	240 µg/L (MW-4)	260 µg/L (MW-4)	230 µg/L (MW-4)	290 µg/L (MW-4)

* ND = Constituent Not Detected but due to sample dilution, the constituent MDL (May 2023: 20 µg/L, August 2023: 40 µg/L, November 2023: 10 µg/L, February 2024: 12 µg/L) exceeded the applicable NYS Class GA Standard.
**RSO PT in effect for 5 months before May 2023 first reporting period sampling.

1,1,1-TCA is the primary VOC contaminant detected at the Site with concentrations exceeding 500 µg/L (MW-4) and 1,000 µg/L (ERT-4) in the vicinity of the former source area. The hydraulic connection of ERT-4 and MW-4 wells to the extraction wells is poor and they are likely located within a perched area and somewhat isolated from the other wells in the monitoring network.

2.4.2.2 1,4-Dioxane Groundwater Results

The baseline and subsequent RSO Pilot Test groundwater quality sampling revealed detectable concentrations of 1,4-dioxane in all Pilot Test Monitoring Wells and Extraction Wells ranging from 0.548 µg/L (MW-12B, February 2024) to 9.62 µg/L (MW-5B, February 2024) as illustrated on Figure 5.

2.5 PURGE WATER

Purge water generated during the RSO Pilot Test activities including SVE gauging and groundwater sampling and monitoring well purging and groundwater quality sampling events was containerized and transported to the GWETS for treatment.

2.6 DATA USABILITY

Category A Review Reports were completed on analytical data from each of the 15-month RSO Pilot Test groundwater sampling events (May 2023, August 2023, November 2023 and February 2024). The data validation review reports are provided in Appendix F.

Based on the Category A Review, sample data collected during the 15-month RSO Pilot test are interpreted to meet the data quality and results are interpreted to be usable as reported by the laboratory or as further qualified within the Category A.

2.7 CONTINUOUS GROUNDWATER LEVEL MEASUREMENTS

Continuous groundwater level measurements were collected from six (6) monitoring wells containing dedicated groundwater elevation data loggers installed in ERT-4, MW-4, MW-5B, MW-11B[18], MW-12B, and MW-15B. The continuous groundwater elevations, recorded from the designated data loggers, have been plotted on Figures 7a through 7f – groundwater elevation hydrographs. A general increase in groundwater elevation, likely due to excessive precipitation during the RSO Pilot Test period, is apparent in most of the wells.

[18] The data logger at pilot test monitoring well MW-11B suffered a failure due to a manufacturing defect. As a result, all groundwater elevation data recorded at MW-11B prior to October 11, 2022 was lost. The loss of the pre-pilot data has no impact on the pilot test.

The collection of the continuous groundwater level measurements during the RSO Pilot Test were used to document groundwater table fluctuations and recharge capabilities in the proximity to extraction monitoring wells ERT-1, MW-5R, and MW-7R for the evaluation of the RSO Pilot Test pumping zone of influence (ZOI) and hydraulic capture. Manual groundwater measurements were additionally collected monthly from the six wells containing dedicated groundwater elevation data loggers to true the collected data. All figures and tables were created using the dedicated data logger groundwater elevation data.

3.0 REMEDIAL SYSTEM OPTIMIZATION PILOT TEST EVALUATION

The 15-Month RSO Pilot Test evaluation included the operation and performance evaluation of the Extraction Well modifications and GWETS, and the evaluation of collected 15-Month RSO Pilot Test data in regard to groundwater VOC extraction optimization, VOC mass removal, groundwater flow evaluation and GWETS zone of influence, and hydraulic capture.

3.1 EXTRACTION WELL MODIFICATIONS AND GWETS PERFORMANCE

During the operation of the RSO Pilot Test (November 2022 - February 2024), there were limited issues identified with the extraction well modifications. Issues identified with the operation of the GWETS were evaluated and addressed in the field and did not have an overall impact on the RSO Pilot Test. The operation and performance of the GWETS, remotely operated and inspected monthly, experienced no major issues. However, the GWETS holding tank transfer pump capacity was determined to be a limiting factor due to the maximum allowable combined extraction well pumping rate of approximately 30 gallons per minute (gpm), which potentially impacted the rate of groundwater elevation depression.

3.2 GROUNDWATER VOC EXTRACTION OPTIMIZATION

The groundwater VOC extraction optimization performance was evaluated through the monthly GWETS performance sampling and the RSO Pilot Test groundwater quality sampling performed during the 15-month RSO Pilot Test reporting period. At the onset of the RSO Pilot Test, the expectation was that installing packers in the shallow portion of the extraction wells would 1) extract higher concentrations in the shallow bedrock thus improve mass-removal on a per-volume basis, and 2) reduce and/or eliminate the natural downward vertical gradient, enhanced by open-hole pumping, in the source area to reduce the downward vertical spreading of contaminants.

Through evaluation of the monthly GWETS performance monitoring and RSO Pilot Test groundwater quality data collected, the VOC concentrations reported during the 15-month RSO Pilot Test, collected under modified extraction well pumping conditions, were found to be consistent and/or below the concentrations collected prior to the RSO Pilot Test (January 2022 Baseline

Sampling/ Pre RSO) collected under normal GWETS pumping conditions. The insignificant increase of VOC concentrations extracted from the groundwater during the RSO Pilot Test is attributed to excessive precipitation levels above the historical average prior to and during the 15-month RSO Pilot Test which resulted in higher-than-normal groundwater table levels as discussed in the following sections.

3.2.1 Packer versus Whole Well Concentration Comparison

The presence of elevated VOC concentrations was demonstrated prior to the 15-month RSO Pilot Test during two previous packer sampling events: initial packer sampling (September 2015) and short-term packer sampling pilot test (August 2019). The VOC (1,1,1,-TCA[19]) results of the initial packer sampling, and short-term packer sampling pilot test (Mactec 2016 and Mactec 2020, respectively) demonstrated maximum detected 1,1,1-TCA concentrations of 170 µg/L (ERT-1), 243 µg/L (MW-5R), and 309 µg/L (MW-7R) as summarized below:

Well	Date	Static Depth to Water ft bTOC	Sample Interval ft bTOC	1,1,1-TCA (µg/L)
ERT-1	9/22/2015	51.64	***73-83***	***170***
			110-120	***81***
			172-182	64
	8/29/2019	35.31	***WT-124***	***99***
MW-5R	9/23/2015	62.39	***89-99***	***94***
			110-120	37
	9/6/2019	48.5	***WT-103***	***243***
MW-7R	9/24/2015	61.21	73-83	35
			92.5-102.5	***130***
			137-147	45
			164-174	16
	9/12/2019	52.18	***WT-108.5***	***309***

WT = Water Table
Ft bTOC = feet below top of casing

Prior to the 15-month RSO Pilot Test, "whole-well" baseline samples for VOCs were collected in January 2022 from the extraction wells prior to their modification (i.e., wells were open-hole without

[19] 1,1,1-Trichloroethane (1,1,1-TCA) is the primary VOC constituent detected at the Site and was used for evaluation during the initial packer sampling (September 2015) and short-term packer sampling pilot test (August 2019).

packers installed). January 2022 baseline quality groundwater sampling showed 1,1,1-TCA concentrations as 47.7 µg/L (ERT-1), 55.6 µg/L (MW-5R), and 57.7 µg/L (MW-7R). The lower concentrations from whole-well samples are due to cumulative dilution caused by extracting groundwater from less contaminated deeper fractures, along with groundwater from more contaminated shallow fractures.

Monthly GWETS performance monitoring and RSO Pilot Test groundwater quality data collected after the extraction well modifications[20] have demonstrated an overall downward concentration trend for the COCs since the beginning of the pilot test in all extraction well and a majority of RSO Pilot Test monitoring well locations. Refer to Figures 8a through 8i which illustrate chemical trend plots for Total VOC constituents[21] throughout the duration of the pilot test using the ERT-1, MW-5R and MW-7R monthly GWETS performance monitoring and RSO Pilot Test groundwater quality sampling data (January 2022 through February 2024[22]) for all RSO Pilot Test monitoring well locations. The general downward concentration trend is opposite of what was expected at the onset of testing.

3.2.2 Effect of Precipitation on Extraction Well VOC Concentrations

One component leading to the unexpected decline in concentrations is dilution. Climate change has resulted in higher total rainfall values and greater infiltration year-round due to warmer winters and continued infiltration during periods normally devoid of infiltration due to frozen ground.

To evaluate the effects of precipitation, the monthly Site precipitation totals[23] from August 2019 (period of short-term pilot test) through the end of the 15-month RSO Pilot Test (February 2024), and the historical mean precipitation averages[24] were plotted to demonstrate the elevated precipitation during the RSO Pilot Test period. A linear trend line was calculated for both the historical mean and monthly Site precipitation data from August 2019 through the end of the RSO

[20] RSO Pilot Test packer design elevations of 125 ft bTOC (ERT-1), 102 ft bTOC (MW-5R), and 109 ft bTOC (MW-7R).
[21] Constituent Trend plots were generated for the primary Total VOC constituents, including 1,1,1-Trichloroethane (1,1,1-TCA), 1,1,-Dichlorethane (1,1-DCA), 1,1-Dichlorethene (1,1-DCE), and Trichloroethene (TCE) which comprise the majority of VOC concentrations.
[22] The RSO Pilot Test includes the evaluation of data collected under Baseline Pre-Pilot Test pumping conditions (January 2022) and RSO Pilot Test modified extraction well pumping conditions (May 2023 through February 2024).
[23] Site Precipitation data used was compiled by the Daniel Smiley Research Center at the Mohonk Preserve, approximately 3.5 miles south of the site (Smiley, 2024).
[24] The Historical Mean Precipitation averages were calculated from historical monthly average (Record Mean Precipitation) totals compiled 1896 - 2023.

Pilot Test (Figure 9). The trend line for the monthly Site precipitation totals indicates a significant increase in precipitation totals throughout the testing periods as compared to the historical mean monthly precipitation totals which indicate a slight decline. The ever-increasing precipitation totals suggests that aquifer storage continued to increase during these periods resulting in greater dilution in February 2024 as compared to January 2022.

This point is further illustrated when comparing extraction well VOC (1,1,1-TCA) concentration trends to the Site monthly precipitation totals. Plots of the monthly GWETS influent concentration of 1,1,1-TCA for extraction wells ERT-1, MW-5R, and MW-7R versus the monthly precipitation totals (Figures 10a – 10c) illustrates that the trend lines of the concentration and precipitation totals are diverging, suggesting a relationship between increasing precipitation and decreasing concentrations.

3.2.3 Effect of Water Level on Extraction Well VOC Concentrations

Depth to water in each of the extraction wells[25] was plotted along with 1,1,1-TCA concentrations throughout the RSO Pilot Test (Figures 11a, 11b and 11c). The graphs show a relationship between increasing depth to water (ft bgs) and decreasing concentration values in each of the extraction wells. This relationship supports the Conceptual Site Model (CSM) (Mactec, 2015) which suggests that residual contamination remains in the upper portion of the bedrock and/or at the overburden-bedrock interface. As water levels decline, the upper portion of the bedrock is dewatered resulting in less-contaminated water from deeper in the aquifer flowing towards and being extracted from the extraction wells As pumping rates are reduced, water levels rise contacting wetting the contaminated fractures resulting in higher concentrations. Allowing groundwater levels to remain high enough to contact the residual contamination in the upper portion of the bedrock and/or at the overburden-bedrock interface could potentially interfere with the ability of the GWETS to maintain effective hydraulic control.

[25] Depth to water levels from extraction wells ERT-1, MW-5R, and MW-7R are continuously reported through the GWETS system data logs.

3.2.4 Effect of GWETS Downtime on Extraction Well Concentrations

Many of the concentration spikes displayed on Figures 12a, 12b and 12c can be attributed to periods of GWETS downtime (as noted on figures) prior to sampling. The concentrations are subsequently seen to decline with continued operation following a period of downtime. This is either the result of matrix diffusion or an expanding capture zone. In areas proximate to the source area, high concentrations of (COCs) in fractures may have diffused into the adjoining matrix of the bedrock. When there is no hydraulic stress applied to the fractures the high concentration COCs back-diffuse into the fractures creating a "slug" of high concentration of COCs in the adjoining fracture. As pumping resumes, the slug is replaced by less-contaminated water as the flow rate of water through the fracture exceeds the diffusion rate thereby resulting in lower concentrations. Alternatively, if the extraction wells are located proximate to the source area, the initial draw of water from them will reflect the nearby concentrations of residual contamination. As the pumping continues and the capture zone expands, less-contaminated water is drawn in resulting in dilution. It is also possible that both conditions are happening, resulting in a compounding effect.

3.3 MASS REMOVAL SVE AND GWETS

The reduction on contaminants through manual mass removal at the SVE points and operation of the GWETS was evaluated through monthly SVE mass removal activities and monthly GWETS performance influent sampling performed during the 15-month RSO Pilot Test reporting period.

Even though well modifications targeted the extraction of groundwater from higher concentration zones associated with nearby residual source areas, the increased precipitation during the RSO Pilot Test period appears to have had an opposite effect on the contaminant mass removal rates. A more significant factor affecting the mass removal rates of contaminants is most likely attributable to the poor hydraulic connection of the residual source area and the portion of the bedrock aquifer influenced by groundwater extraction. The poor hydraulic connection may also be exacerbated by matrix diffusion. These factors appear to be affecting mass removal rates.

3.3.1 SVE Mass Removal vs. GWETS Mass Removal

The manual mass removal at the Site was completed at the SVE points SVE-19, SVE-21, and SVE-22, shallow bedrock wells with casings installed into the bedrock, completed as part of the SVE system[26] operated on Site between 2008 and 2011. Groundwater contamination within the bedrock SVE points is the highest recorded in groundwater at the site and indicates that these SVE points are located proximate to or within the residual source area.

The soil vapor extraction system, reportedly effective at removing contaminant mass under low groundwater conditions, operated by pulling vapors through dry bedrock fractures that were in hydraulic connection with the overlying glacial till. The vapor extraction system was eventually terminated because of its inability to operate during seasonal high-water conditions (MACTEC, 2016). Additionally, a pilot test conducted in 2019 on the five bedrock SVE points (SVE-19 through SVE-23) concluded that SVE is not effective for bedrock impacts, as sufficient airflow could not be established in the bedrock due to the low transmissivity fractures (MACTEC, 2020).

The RSO Pilot Test SVE Source Area mass removal completed at SVE-19, SVE-21 and SVE-22 throughout the pilot test included monthly purging events between November 2022 and February 2024 and resulted in a maximum mass removal rate of 0.000162 pounds of total VOCs per gallon of extracted groundwater at SVE-21(Table 4). The SVE source area mass removal activities demonstrated that the SVE points collect groundwater containing elevated VOC concentrations (Table 5) including maximum site concentrations of 1,1,1-TCA at 28,000 µg/L (SVE-21), 1,1-DCA at 200 J µg/L (SVE-19), 1,1-DCE 3,300 µg/L (SVE-19), and TCE at 1,100 µg/L (SVE-21), indicating that residual contamination remains in the source area. The calculated recharge rates (see Section 2.3.1) indicate poor connectivity to the surrounding aquifer. The low transmissivity of the fractures in these wells also does not support groundwater extraction as a viable means of remediation in these wells.

In contrast, operation of the GWETS during the period of the long-term pilot test (November 2022 – February 2024) resulted in a total VOC mass removal rate, as previously reported in the PRR (Mactec

[26] The system originally included 18 SVE wells installed in the overburden and five bedrock wells (SVE-19, SVE-20, SVE-21, SVE-22 and SVE-23) installed later in 2009.

2024) from the three modified extraction wells (ERT-1, MW-5R and MW-7R) of 0.0000004303 pounds/gallon.

The RSO Pilot Test SVE mass-removal findings for Total VOCs results were nearly double that of the GWETS. However, due to the poor SVE point recharge rate, the mass removal volume is de minimus and a sustainable pumping rate could not be maintained. At such a low extraction rate, hydraulic control of the contaminated groundwater cannot be maintained. In contrast, the GWETS can maintain hydraulic control however the mass removed at that rate is minimal.

3.4 CAPTURE EFFECTIVENESS

Prior to commencing the long-term pilot test, Pre-Pilot Test water levels were gauged in November 2022 and a potentiometric map was constructed (Figure 6b). The equipotential lines suggests that groundwater flows from the area of the extraction wells to the northwest, north and northeast. By the May 2023 gauging round, completed under RSO Pilot Test pumping conditions 5 months after initiating the long-term pilot test, a definite depression had developed in the potentiometric surface resulting in inward flow of groundwater from the 250-foot elevation equipotential line to the extraction wells (Figure 6c). This depression continued throughout the duration of the pilot test (Figures 6d through 6f). The depression indicates that hydraulic control within the likely source area is accomplished with the extraction well optimization.

Given the location of the site along a ridgeline, downward vertical gradients are likely given that aquifer recharge is primarily through precipitation and local discharge areas are located on either side of the ridge. In this situation, the vertical spread of contaminants is more likely to occur and to be exacerbated when the boreholes are deep open holes and pumps are located deep in the aquifer. The added benefit of pumping from the upper portion of the bedrock is that existing downward vertical gradients are likely to be reversed to upward, thus limiting downward migration of COCs that are located within the area of depression. Unfortunately, there are currently no wells within the area of depression that are only screened in the deeper portion of the aquifer to verify this conclusion.

Data loggers were installed within several monitoring wells during the RSO Pilot Test. Wells anticipated to have the greatest response to pumping are located within the area of extraction well depression (Figure 6c). However, throughout the history of GWETS operation ERT-4, MW-4, and

MW-5B (Figures 7a – 7c), located within the area of extraction well depression, have consistently had higher water level elevations than surrounding wells. The lack of response to pumping at the commencement and throughout the RSO Pilot Test indicates that these wells are hydraulically disconnected, or very poorly connected, to the surrounding bedrock aquifer. The water level in these wells appear to be more affected by precipitation than by pumping. It should be noted that the monthly precipitation totals shown represent a summary of the month, whereas the water level response on Figures 7a, 7b, and 7c reflect real-time measurements. Due to slow infiltration rates, there is an offset from the monthly totals (e.g., a low precipitation month) and a low-water level response in the monitoring well. In contrast, wells MW-11B, MW-12B and MW-15B (Figures 7d – 7f) are hydraulically connected to the surrounding aquifer. The wells MW-11B, MW-12B, located inside the depression with MW-15B just outside the depression, have responded to the pumping, with MW-15B showing the least amount of change in water level during the test period.

ERT-4, MW-4 and MW-5B are likely installed in the same low-transmissivity zone as the nearby bedrock SVE points. Similar to the bedrock SVE wells, contamination concentrations in the three hydraulically disconnected wells are higher than surrounding wells within the area of depression, suggesting that contaminants are somewhat trapped in the shallow bedrock fractures in that area and only leach into the bedrock aquifer at a slow rate which results in lower concentrations in surrounding wells due to the higher transmissivity and mixing of less-contaminated water.

The change in VOC extent in groundwater from RSO pre-testing to RSO Pilot Test completion is shown on Figures 4 and 13. Figure 4 shows the total concentrations of seven VOCs from January 2022, prior to initiating the well modifications, and the ending concentrations at the completion of RSO Pilot Test in February 2022. Figure 13 illustrates the effect of pumping on the near-source plume area between the Baseline RSO Pilot Test (January 2022) and RSO Pilot Test completion (February 2024) on the groundwater quality sampling results of the long-term pilot test. The isoconcentration map was generated using Surfer, by Golden Software, which creates the contours based on statistical algorithms using available data that represent the change in VOC concentrations and not the physical boundary of the plume. The data used[27] was limited to January 2022 and February 2024 groundwater quality results for the RSO Pilot Test wells (MW-11B, MW-12B, MW-15B, MW-5B, ERT-4, MW-4) and Extraction Wells (ERT-1, MW-5R, and MW-7R). The three wells

[27] As noted on Figure 13, select VOC concentrations at historically non-detect site monitoring wells were used in contour interpretation as a boundary condition.

(ERT-4, MW-4 and MW-5B) shown to be in poor hydraulic communication with the extraction wells were not used in the contouring. Figure 13 shows that over the duration of the long-term pilot test, the total VOCs extent was reduced within the area of hydraulic capture.

Of the six pilot test monitoring wells (MW-11B, MW-12B, MW-15B, MW-5B, ERT-4, MW-4) that are nearby the extraction wells and sampled throughout this test period, MW-12B saw the largest drop in concentrations with an 81% reduction in total VOCs. The total VOC concentrations in MW-11B went up slightly by 2.58 µg/L and MW-15B showed a drop of 6.2 µg/L of total VOCs. Out of these six wells, MW-12B and MW-15B are the furthest downgradient from the extraction wells. The reduction in total VOCs at MW-12B and MW-15B by the completion of the testing suggest that the plume is not expanding laterally under the modified pumping conditions.

Monitoring wells ERT-4, MW-4 and MW-5B had the highest VOC concentrations of the seven wells prior to the pilot test, but only MW-4 saw a slight decrease in concentrations at the end of the pilot test. Based on previous water level gauging data, these three wells appear generally disconnected from the bedrock aquifer. The slight decrease in concentration at MW-4 throughout the testing indicates that this well may be slightly better connected to the bedrock aquifer than ERT-4 and MW-5B. In contrast to MW-4, ERT-4 and MW-5B both saw an increase in concentrations, further illustrating the hydraulic disconnect between the perched water in this area and the bedrock aquifer in which the extraction wells are located.

Without vertical gradient control points (i.e., deep wells within the area of depression) the effect on the deeper portion of the aquifer is currently only speculative. However, assuming a change in vertical gradient from downward to upward, cleaner water may eventually begin to flush out the more contaminated water forced down by natural vertical gradients and exacerbated by the previous (prior to November 2022) deep pump location in the deep open bedrock exaction wells. Due to a nearly 3-month downtime of the system prior to startup on November 29, 2022, it is possible that a higher concentration “slug” may have escaped the influence of the extraction wells and will manifest as upward trending concentrations in downgradient monitoring wells. With continued operation of the extraction wells, this condition, should it occur, would only be expected to be temporary.

3.5 1,4-DIOXANE

At the request of the NYSDEC, 1,4-dioxane results at the Site have been evaluated during the RSO Pilot Test period through the completion of monthly GWETS performance sampling and RSO Pilot Test groundwater quality sampling collection and analysis.

3.5.1 1,4-Dioxane Monthly GWETS Performance Sampling

Monthly GWETS performance samples are analyzed for 1,4-dioxane by Method 8270 SIM. In accordance with the Site SPDES permit equivalent, the collected monthly 1,4-dioxane GWETS performance sampling results are "monitor only" and there is no criteria threshold.

Maximum GWETS 1,4-dioxane Pre Air Stripper Combined Influent Extraction Well (influent) results were 9.0 µg/L (ERT-1), 5.5 µg/L (MW-5R), and 4.4 µg/L (MW-7R); maximum GWETS 1,4-dioxane Air Stripper Effluent (effluent) concentration was 6.0 µg/L (Table 3).

Effluent samples were reported as non-detect (ND) for 1,4-dioxane from 2020 to 2022, however prior to 2022, 1,4-dioxane was analyzed via VOC Method 624 which contained an elevated Method Detection Limit (MDL) of 15 µg/L (typical). Since May 2022, 1,4-dioxane has been analyzed via Method 8270 SIM resulting in a much lower MDL of 0.2 µg/L and detected effluent concentrations reported up to 6.0 µg/L.

GWETS performance sampling throughout the RSO Pilot Test revealed cumulative influent and effluent results at similar concentration ranges demonstrating that the GWETS in its current configuration is not effective at treating 1,4-dioxane.

3.5.2 1,4-Dioxane RSO Pilot Test Groundwater Quality Sampling

Although there is no NYS Class GA Groundwater Standard for 1,4-dioxane, the 1,4-dioxane NYS MCL for drinking water of 1 µg/L was exceeded in all six Pilot Test monitoring wells and three Extraction Well locations during the pilot test period.

Between January 2022 and February 2024, 1,4-dioxane was detected in all RSO Pilot Test monitoring wells sampled, at concentrations ranging from 0.55 ug/L (MW-12B) to a maximum concentration of 9.62 ug/L (MW-5B) (figure 5).

Historic data trends reveal that the currently detected concentrations are consistent with the historically detected concentrations demonstrating detections below 10 µg/L in all site monitoring wells.

In its 2012 Edition of the Drinking Water Standards and Health Advisories, EPA listed a health advisory limit of 35 µg/L for 1,4-dioxane at a 10^{-4} cancer risk level. All Site concentration levels of 1,4-dioxane are well below 35 µg/L.

4.0 CONCLUSIONS AND RECOMENDATIONS

The 15-month RSO Pilot Test was conducted at the Site between November 29, 2022 (commencement of the RSO Pilot Test) through February 29, 2024 to evaluate the potential of mass removal from existing SVE points located in the vicinity of the former source area, optimization of the site extraction wells for increased VOC mass removal, and hydraulic control of the contaminant source in the vicinity of the Site.

4.1 CONCLUSIONS

- The GWETS performance monitoring data collected during the RSO Pilot Test reporting period indicate that influent VOC concentrations are consistent and/or below the influent concentrations collected prior to the RSO Pilot Test (January 2022 Baseline Sampling/ Pre RSO) collected under normal GWETS pumping conditions.
- Evaluation of the RSO Pilot Test findings revealed that the insignificant change of extracted VOC groundwater concentrations is anticipated to be the result of dilution and elevated groundwater table levels, caused by excessive precipitation above the historical average prior to and during the RSO Pilot Test.
- The modification of the three extraction wells (ERT-1, MW-5R and MW-7R) showed no improvement as far as contaminant mass removed during the long-term pilot testing period (November 2022 – February 20232024) compared to previously extraction well configurations.
- The SVE source area mass removal activities demonstrated that the SVE points collect groundwater containing elevated VOC concentrations including maximum concentrations of 1,1,1-TCA, 1,1-DCE, and TCE at 28,000 µg/L (SVE-21), 3,300 µg/L (SVE-19), and 1,000 µg/L (SVE-21), respectively, indicating that residual contamination remains in the source area.
- The extremely low recharge rates of the SVE wells indicate these wells are not viable for removing contaminant mass from the aquifer or controlling plume migration.
- The hydraulic capture of the modified extraction wells appears as-effective as previous well configurations.

- The modified well configuration will likely reduce downward vertical migration of contaminants by causing upward vertical gradients from deeper bedrock.
- Mass-removal from the extraction wells is likely to improve as aquifer storage returns to normal levels.
- Residual contamination resides in shallow bedrock in the area near the former source area (septic tank). Wells in that area (e.g., ERT-4, MW-4, MW-5B) exhibit perched groundwater (or delayed drainage), indicative of low-transmissivity (Figure 6c). Operation of the extraction wells has little to no hydraulic effect on these high-concentration wells.
- Effective contaminant reduction in the source area by hydraulic means would require fracture enhancement, or in-situ alteration of the contaminants.
- 1,4-dioxane GWETS performance monitoring concentrations at the Site, evaluated as "monitor only" in accordance with the SPDES permit equivalent, were detected at concentrations below 10 µg/L. The current treatment configuration of the GWETS does not effectively reduce influent concentrations of 1,4-dioxane.
- 1,4-dioxane groundwater quality sampling concentrations collected during the RSO Pilot Test were detected at all extraction wells and RSO Pilot Test monitoring well locations at concentrations below 10 µg/L.

4.2 RECOMMENDATIONS

The evaluation of the performance of the 15-month RSO Pilot Test has resulted in the following recommendations:

- Continue extraction with the wells in the modified configuration and monitor precipitation and influent concentrations to verify conclusions.
    - Pumps to be kept at current elevation and packers installed.
    - Evaluation of precipitation, groundwater elevations and VOC concentrations should continue until monthly precipitation totals are in-line with, or lower than, average historical monthly data.

  - Evaluation of the mass-removal during "normal" or "low water" conditions should be performed to verify conclusions presented here.

- Retrofit ERT-2 (or other suitable well) with shallow and deep nested screened wells to verify vertical gradients in proximity to the extraction wells.
- Evaluate feasibility of hydraulic fracturing of existing fractures in the source area to enhance transmissivity and create the possibility of effective groundwater extraction via existing extraction wells.
- Evaluate the feasibility of Electrical Resistance Heating (ERH) of the residual contamination in the shallow bedrock in the vicinity of the former source area.
- Continue to evaluate 1,4-dioxane concentrations through GWETS performance sampling and Site monitoring well network groundwater quality sampling.
- Evaluate the feasibility of 1,4-dioxane treatment in correlation with potential remedial options in the vicinity of the former source area.

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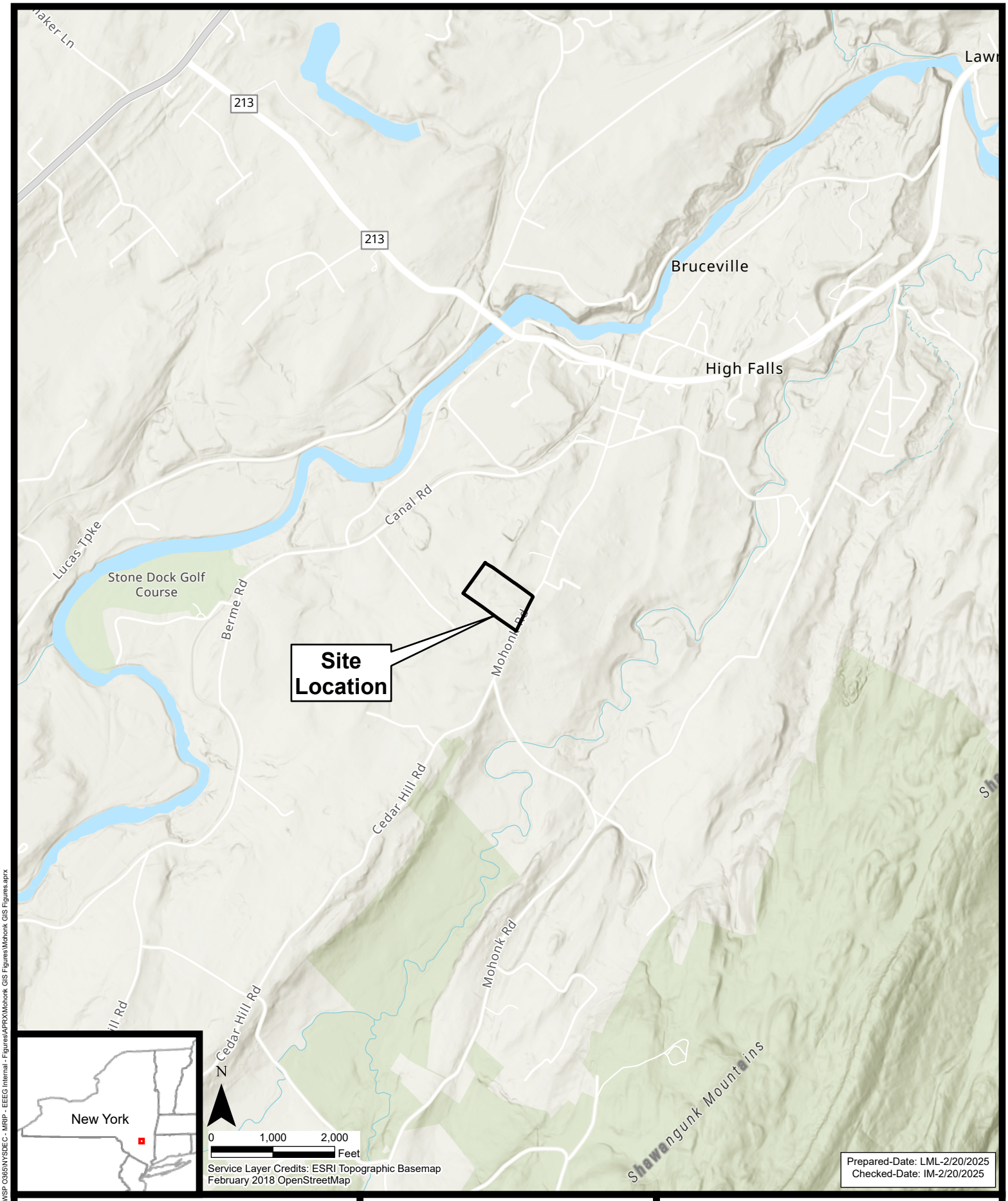
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FIGURES



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NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

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Site Location Map

Project US-EI7772210116 Figure 1

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Pilot Test Monitoring Well (⊕) - Groundwater Elevation Data Logger Location

Pilot Test Extraction Well (⊕) - Dedicated Packer Installation

Pilot Test SVE Point (⊕) - Monthly SVE Source Area Mass Removal

High Falls Water Treatment Facility

Water Treatment Plant

Lagoon #1

Lagoon #2

ERT-1

ERT-2

ERT-3

MW-5R

MW-5B

Finished Water Tank

MW-7R

MW-7B

Raw Water Valve House

Raw Water Tank

Former Source Area

SVE-19

ERT-4

SVE-22

MW-4

SVE-21

MW-6B

Groundwater Treatment Plant

MW-1B

Offsite Well Locations

MW-12B

MW-15B

MW-11B

Lot 37.200

Lot 37.100

0 200 400 Feet

N

Ulster County Orthoimagery from Spring 2021. Obtained from New York State GIS Clearinghouse at: https://data.gis.ny.gov

Legend

- Pilot Test Monitoring Well/ Elevation Data Logger
- Pilot Test Extraction Well
- Standard Monitoring Well
- Pilot Test SVE Point
- Approximate Property Lot Boundary
- Approximate Sanitary Line
- Approximate Drain Line
- Building
- Road/Driveway/Parking
- Treatment System Discharge

0 50 100 Feet

N

Prepared-Date: LML-2/21/2025
Checked-Date: IM-2/21/2025

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

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RSO Pilot Test Components

Project US-EI 7772210116 Figure 2

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MW-19
(Not Located)

MW-20

MW-8B

MW-14B

High Falls

MW-10B

MW-9B

MW-18 (Artesian)

MW-17

MW-16

MW-12B

MW-15B

MW-13B

MW-11B

MW-11C

ERT-1

ERT-2

ERT-3

MW-5R

MW-5B

MW-6B

MW-7R

MW-7B

MW-4

ERT-4

MW-1B

MW-21 (Artesian)

Topographic map: World Topographic Map: Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- High Falls Water District

0 350 700 Feet

N

Prepared-Date: LML-2/20/2025
Checked-Date: IM-2/20/2025

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

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Site Monitoring Well Network

Project US-EI-7772210116 Figure 3

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Location	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Sample Date	1/20/2022	5/18/2023	8/30/2023	11/30/2023	11/30/2023	2/7/2024
1,1,1-TCA	**653**	**400**	**390**	**380**	**390**	**520**
1,1,2-TCA	1 U	5 U	5 U	4 U	4 U	7.5 U
1,1-DCA	**28.8**	**19**	**22**	**19**	**19**	**22**
1,1-DCE	**144**	**58**	**57**	**47**	**49**	**79**
1,2-DCA	**1.6**	5 U	5 U	4 U	4 U	**1.2 J**
cis-1,2-DCE	**8.3**	**12**	**12**	**11**	**11**	**11 J**
TCE	**253**	**240**	**260**	**220**	**230**	**290**

Location	ERT-1	ERT-1	ERT-1	ERT-1	ERT-1
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/8/2023	2/8/2024
1,1,1-TCA	**47.7**	**35**	**32**	**33**	**47**
1,1,2-TCA	1 U	1 U	1 U	1 U	1.5 U
1,1-DCA	**12.4**	**5.2**	**6.2**	**6.7**	**7.1**
1,1-DCE	**26.3**	**10**	**13**	**14**	**15**
1,2-DCA	1 U	1 U	1 U	1 U	0.5 U
cis-1,2-DCE	1 U	1 U	**0.35** J	**0.31** J	2.5 U
TCE	**6.1**	**3.5**	**3.8**	**4.3**	**5.3**

Location	MW-15B	MW-15B	MW-15B	MW-15B	MW-15B
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/30/2023	2/7/2024
1,1,1-TCA	**10.2**	**9.8**	**11**	**11**	**12**
1,1,2-TCA	1 U	1 U	1 U	1 U	1.5 U
1,1-DCA	**9.1**	**5.8**	**6.9**	**6.2**	**6.2**
1,1-DCE	**19**	**9.8**	**13**	**11**	**14**
1,2-DCA	1 U	1 U	1 U	1 U	0.5 U
cis-1,2-DCE	1 U	1 U	1 U	**0.14 J**	2.5 U
TCE	**1.4**	**1.2**	**1.3**	**1.2**	**1.3**

Location	MW-7R	MW-7R	MW-7R	MW-7R	MW-7R
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/8/2023	2/8/2024
1,1,1-TCA	**57.7**	**55**	**57**	**53**	**74**
1,1,2-TCA	1 U	1 U	1 U	1 U	1.5 U
1,1-DCA	**50**	**32**	**32**	**32**	**42**
1,1-DCE	**13.2**	**7.1**	**9**	**9.4**	**11**
1,2-DCA	1 U	1 U	1 U	1 U	0.5 U
cis-1,2-DCE	**2**	1 U	**0.98 J**	**1**	**1.3**
TCE	**1.6**	1 U	**0.8 J**	**0.88 J**	**1.6**

Location	MW-11B	MW-11B	MW-11B	MW-11B	MW-11B	MW-11B	MW-11B
Sample Date	1/20/2022	5/18/2023	8/30/2023	8/30/2023	11/8/2023	2/7/2024	2/7/2024
1,1,1-TCA	1 U	1 U	**0.92 J**	**0.88 J**	**0.76 J**	**0.88 J**	**0.98 J**
1,1,2-TCA	1 U	1 U	1 U	1 U	1 U	1.5 U	1.5 U
1,1-DCA	3.5 U	**1.5**	**2.5**	**2.7**	**2.9**	**2.6**	**2.7**
1,1-DCE	**7**	**2.5**	**4.4**	**4.4**	**4.5**	**4.8**	**5**
1,2-DCA	1 U	1 U	1 U	1 U	1 U	0.5 U	0.5 U
cis-1,2-DCE	1 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U
TCE	**1.1**	1 U	**0.86 J**	**0.78 J**	**0.78 J**	**0.89**	**1**

Location	MW-12B	MW-12B	MW-12B	MW-12B	MW-12B
Sample Date	1/20/2022	5/18/2023	8/30/2023	11/8/2023	2/8/2024
1,1,1-TCA	**2.5**	**3.7**	**1.6**	**1.8**	**2.1 J**
1,1,2-TCA	**1**	1 U	1 U	1 U	1.5 U
1,1-DCA	**8.9**	**1.7**	**1.5**	**1.4**	**1.3 J**
1,1-DCE	**16.9**	**3.5**	**1.9**	**1.9**	**1.8**
1,2-DCA	1 U	1 U	1 U	1 U	0.5 U
cis-1,2-DCE	1 U	1 U	1 U	1 U	2.5 U
TCE	**2.9**	**1.2**	**0.55 J**	**0.65 J**	**0.64**

Location	MW-5R	MW-5R	MW-5R	MW-5R	MW-5R
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/8/2023	2/8/2024
1,1,1-TCA	**55.6**	**28**	**27**	**24**	**26**
1,1,2-TCA	1 U	1 U	1 U	1 U	1.5 U
1,1-DCA	**6.9**	**2.1**	**2.4**	**2.2**	**2.1 J**
1,1-DCE	**27.9**	**7.3**	**8.6**	**8.4**	**7.4**
1,2-DCA	1 U	1 U	1 U	1 U	0.5 U
cis-1,2-DCE	1 U	1 U	1 U	1 U	2.5 U
TCE	**6.4**	**2.5**	**3.2**	**3.6**	**3.3**

Location	MW-5B	MW-5B	MW-5B	MW-5B	MW-5B
Sample Date	1/20/2022	5/16/2023	8/30/2023	11/9/2023	2/7/2024
1,1,1-TCA	**608**	**490**	**720**	**660**	**850**
1,1,2-TCA	1 U	10 U	10 U	**1.4 J**	15 U
1,1-DCA	**15.8**	10 U	**14**	**13**	**19 J**
1,1-DCE	**111**	**61**	**81**	**120**	**160**
1,2-DCA	**1.5**	10 U	10 U	5 U	5 U
cis-1,2-DCE	**1.1**	10 U	10 U	5 U	25 U
TCE	**40.5**	**32**	**36**	**39**	**60**

Location	ERT-4	ERT-4	ERT-4	ERT-4	ERT-4
Sample Date	1/20/2022	5/18/2023	8/30/2023	11/8/2023	2/7/2024
1,1,1-TCA	**1530**	**1000**	**2300**	**1400**	**2100**
1,1,2-TCA	**2.2**	20 U	40 U	10 U	38 U
1,1-DCA	**46.8** J+	**29**	**51**	**50**	**46** J
1,1-DCE	**173**	**82**	**210**	**160**	**210**
1,2-DCA	**3.2** J+	20 U	40 U	10 U	12 U
cis-1,2-DCE	**4** J+	20 U	40 U	**5.3** J	62 U
TCE	**120**	**67**	**120**	**120**	**100**

MW-20
MW-8B
MW-19 (Not Located)
MW-14B
High Falls
MW-10B
MW-9B
MW-18 (Artesian)
MW-17
MW-16
MW-12B
MW-15B
MW-13B
MW-21 (Artesian)
MW-11B
MW-11C
ERT-1
ERT-2
ERT-3
MW-5R
MW-5B
MW-6B
ERT-4
MW-7R
MW-7B
MW-4
MW-1B

Lucas Tpke
Berme Rd
Depew Rd
Canal Rd
Fairview Ave
Orchard St
2nd St
Sleep Hill Rd
Mohonk Rd
4th St
Quick Rd
School Hill Rd
Middle Rd
Mountain View Acres
Stone Dock Rd
Reach Ln
342 ft

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- High Falls Water District

Bold	=	Exceeds standard or guidance value
NYS Class GA	=	New York State Class GA Groundwater Standards
ug/L	=	micrograms per liter
U	=	Not Detected
J	=	Estimated Value

Parameter	GA Standard
1,1,1-TCA	(5 ug/l)
1,1,2-TCA	(1 ug/l)
1,1-DCA	(5 ug/l)
1,1-DCE	(5 ug/l)
1,2-DCA	(0.6 ug/l)
cis-1,2-DCE	(5 ug/l)
TCE	(5 ug/l)

Prepared-Date: BF-2/21/2025
Checked-Date: IM-2/21/2025

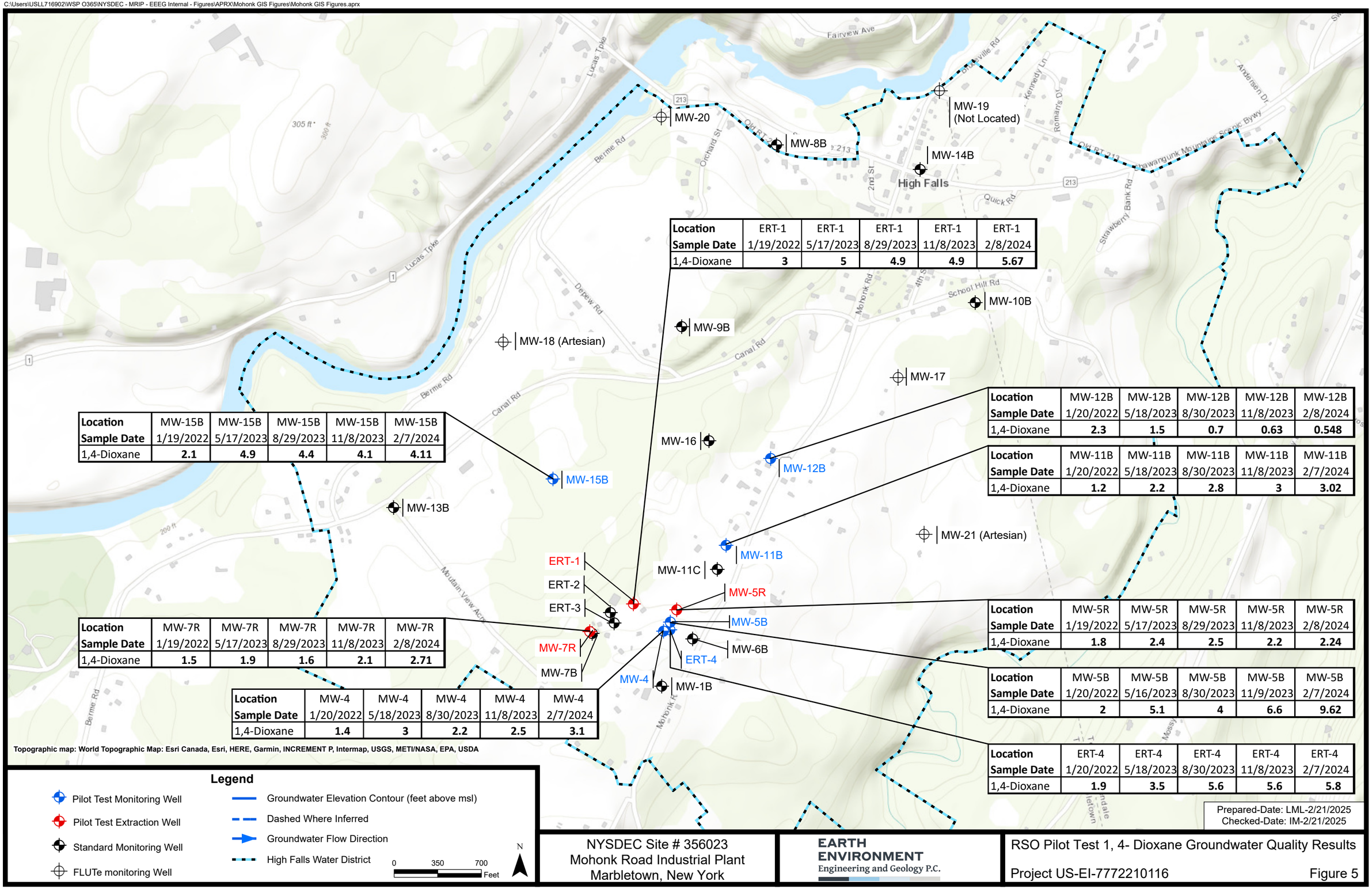
NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO Pilot Test VOC Groundwater Quality Results

Project US-EI-7772210116 Figure 4

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Location	ERT-1	ERT-1	ERT-1	ERT-1	ERT-1
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/8/2023	2/8/2024
1,4-Dioxane	**3**	**5**	**4.9**	**4.9**	**5.67**

Location	MW-12B	MW-12B	MW-12B	MW-12B	MW-12B
Sample Date	1/20/2022	5/18/2023	8/30/2023	11/8/2023	2/8/2024
1,4-Dioxane	**2.3**	**1.5**	**0.7**	**0.63**	**0.548**

Location	MW-11B	MW-11B	MW-11B	MW-11B	MW-11B
Sample Date	1/20/2022	5/18/2023	8/30/2023	11/8/2023	2/7/2024
1,4-Dioxane	**1.2**	**2.2**	**2.8**	**3**	**3.02**

Location	MW-15B	MW-15B	MW-15B	MW-15B	MW-15B
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/8/2023	2/7/2024
1,4-Dioxane	**2.1**	**4.9**	**4.4**	**4.1**	**4.11**

Location	MW-5R	MW-5R	MW-5R	MW-5R	MW-5R
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/8/2023	2/8/2024
1,4-Dioxane	**1.8**	**2.4**	**2.5**	**2.2**	**2.24**

Location	MW-5B	MW-5B	MW-5B	MW-5B	MW-5B
Sample Date	1/20/2022	5/16/2023	8/30/2023	11/9/2023	2/7/2024
1,4-Dioxane	**2**	**5.1**	**4**	**6.6**	**9.62**

Location	MW-7R	MW-7R	MW-7R	MW-7R	MW-7R
Sample Date	1/19/2022	5/17/2023	8/29/2023	11/8/2023	2/8/2024
1,4-Dioxane	**1.5**	**1.9**	**1.6**	**2.1**	**2.71**

Location	MW-4	MW-4	MW-4	MW-4	MW-4
Sample Date	1/20/2022	5/18/2023	8/30/2023	11/8/2023	2/7/2024
1,4-Dioxane	**1.4**	**3**	**2.2**	**2.5**	**3.1**

Location	ERT-4	ERT-4	ERT-4	ERT-4	ERT-4
Sample Date	1/20/2022	5/18/2023	8/30/2023	11/8/2023	2/7/2024
1,4-Dioxane	**1.9**	**3.5**	**5.6**	**5.6**	**5.8**

Topographic map: World Topographic Map: Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- Groundwater Elevation Contour (feet above msl)
- Dashed Where Inferred
- Groundwater Flow Direction
- High Falls Water District

0 350 700 Feet

N

Prepared-Date: LML-2/21/2025
Checked-Date: IM-2/21/2025

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
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RSO Pilot Test 1, 4- Dioxane Groundwater Quality Results

Project US-EI-7772210116 Figure 5

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MW-20
MW-8B
131.0
MW-19
(Not Located)
MW-14B
151.6
High Falls
MW-10B
200.6
MW-18
(Artesian)
MW-9B
231.0
MW-17
MW-16
252.1
MW-12B
250.2
MW-13B
MW-15B
234.3
MW-5R
254.6
MW-5B
297.6
MW-4
324.4
ERT-1
252.3
ERT-2
ERT-3
MW-7R
249.3
MW-7B
MW-11B
255.4
MW-11C
256.7
ERT-4
296.7
MW-6B
258.3
MW-1B
283.9
MW-21
(Artesian)
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
Lucas Tpke
Berme Rd
Depew Rd
Canal Rd
Old Rte 213
State Route 213
Orchard St
Quick Rd
Steep Hill Rd
Mohonk Rd
Strawberry Bank Rd
Shawangunk Mountains Scenic Bywy
Andersen Dr
Romans Dr
Kennedy Ln
Fairview Ave
School Hill Rd
Mossy Brook Rd
Turtle Cros
Mountain View Acres
Town of Rosendale
Town of Marbletown
305 ft
200 ft
342 ft

Topographic map: World Topographic Map: Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- Groundwater Elevation Contour (feet above msl)
- Dashed Where Inferred
- Groundwater Flow Direction
- High Falls Water District

0 350 700 Feet

N

Prepared-Date: LML-2/20/2025
Checked-Date: IM-2/20/2025

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
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RSO Pilot Test Groundwater Elevation Contour
Baseline - January 2022
Project US-EI-7772210116 Figure 6A

MW-19 (Not Located)
MW-20
MW-8B
130.9
MW-14B
High Falls
MW-10B
199.0
MW-18 (Artesian)
MW-9B
MW-17
MW-16
MW-15B
235.4
MW-12B
252.0
MW-13B
MW-5R
277.0
MW-5B
298.9
MW-11B
271.3
MW-21 (Artesian)
ERT-1
276.7
MW-4
324.9
MW-11C
273.0
ERT-2
ERT-3
ERT-4
299.0
MW-7R
276.6
MW-6B
278.4
MW-7B
MW-1B
289.4
200
210
220
230
240
250
260
270
280
290
Lucas Tpke
Berme Rd
Depew Rd
Canal Rd
Orchard St
Old RT 213
Fairview Ave
Gravel Rd
Quick Rd
2nd St
Steep Hill Rd
4th St
Mohonk Rd
School Hill Rd
Strawberry Bank Rd
Shawangunk Mountains Scenic Bywy
Andersen Dr
Mossy Brook Rd
Turtle Crossing
Mountain View Acres
Town of Rosendale
Town of Marbletown
213
6A
1
305 ft
300 ft
342 ft

Topographic map: World Topographic Map: Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- Groundwater Elevation Contour (feet above msl)
- Dashed Where Inferred
- Groundwater Flow Direction
- High Falls Water District

0 350 700 Feet

N

Prepared-Date: LML-2/20/2025
Checked-Date: IM-2/20/2025

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
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RSO Pilot Test Groundwater Elevation Contour
Pre-Pilot Test - November 2022
Project US-EI-7772210116 Figure 6B

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MW-19 (Not Located)

MW-20

MW-8B
129.4

MW-14B
151.7
High

MW-18 (Artesian)

MW-9B
230.7

MW-10B
202.4

MW-17
231.5

MW-15B
233.6

MW-16
250.3

MW-12B
247.8

MW-13B

MW-5B
297.3

MW-5R
241.1

MW-4
323.0

MW-11B
246.7

MW-11C
247.8

ERT-1
238.4

ERT-2

ERT-3

ERT-4
297.1

MW-6B
245.6

MW-7R
236.5

MW-7B

MW-1B
280.4

MW-21 (Artesian)
>233.6

130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280

Fairview Ave
Lucas Tpke
Berme Rd
Orchard St
Old Rt 213
Gravel Rd
J F Kennedy Ln
Roman's Dr
Andersen Dr
Shawangunk Mountains Scenic Bywy
Quick Rd
Strawberry Bank Rd
Steep Hill Rd
Mohonk Rd
Mill St
School Hill Rd
Canal Rd
Drew Rd
Mountain View Acres
Mossy Brook Rd
Turtle Crossing
Town of Rosendale
Town of Marbletown
305 ft
300 ft
200 ft
342 ft

Topographic map: World Topographic Map: Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- Groundwater Elevation Contour (feet above msl)
- Dashed Where Inferred
- Groundwater Contour - Depression
- Groundwater Flow Direction
- High Falls Water District

0 350 700 Feet

N

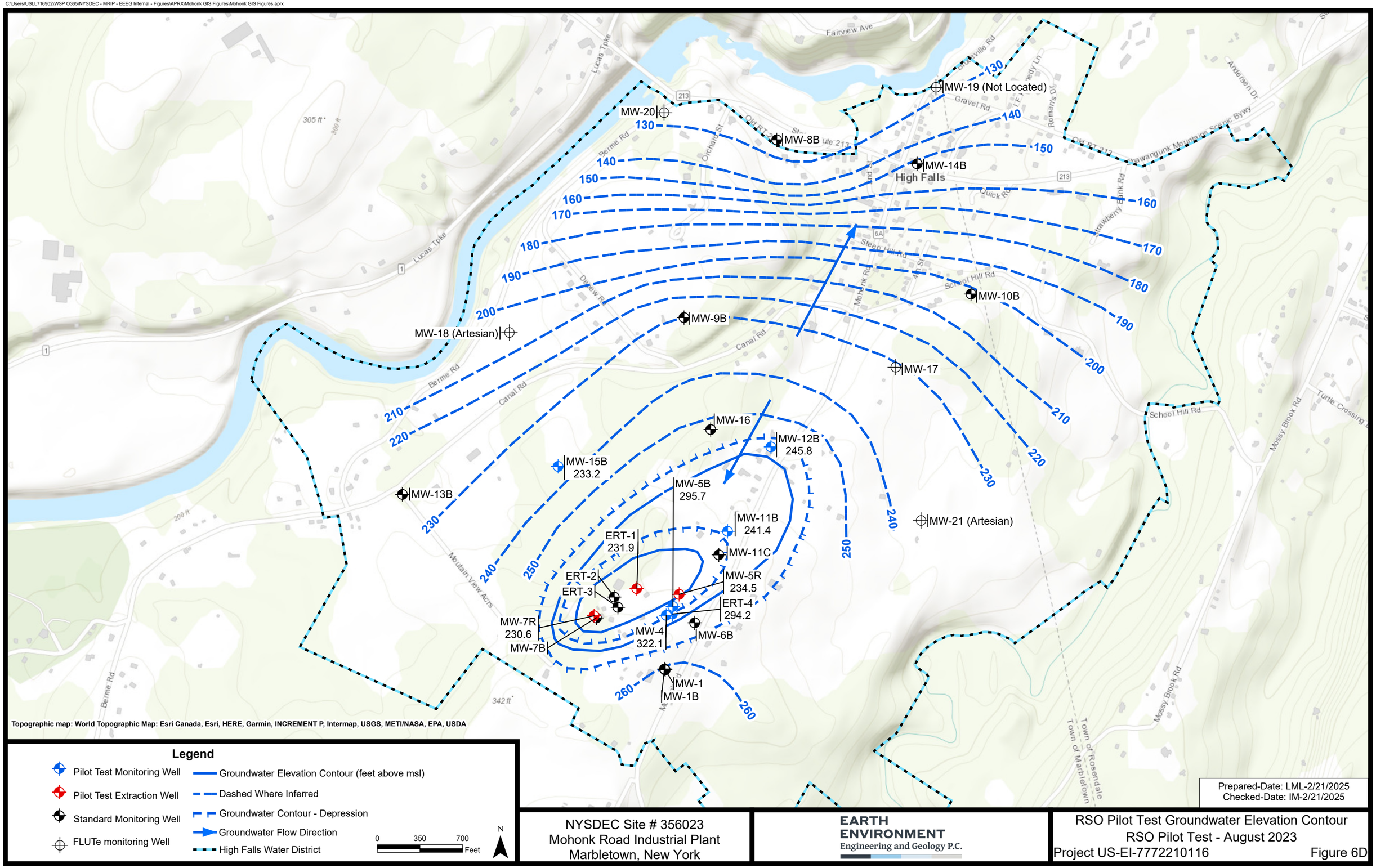
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NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO Pilot Test Groundwater Elevation Contour
RSO Pilot Test - May 2023
Project US-EI-7772210116 Figure 6C

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Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- Groundwater Elevation Contour (feet above msl)
- Dashed Where Inferred
- Groundwater Contour - Depression
- Groundwater Flow Direction
- High Falls Water District

0 350 700 Feet

N

Prepared-Date: LML-2/21/2025
Checked-Date: IM-2/21/2025

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
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RSO Pilot Test Groundwater Elevation Contour
RSO Pilot Test - August 2023
Project US-EI-7772210116 Figure 6D

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MW-19 (Not Located)
MW-20
MW-8B
MW-14B
High Falls
MW-10B
MW-9B
MW-18 (Artesian)
MW-17
MW-16
MW-12B
247.7
MW-15B
233.7
MW-4
325
MW-5B
298.8
MW-13B
ERT-1
233.6
MW-5R
237
MW-11B
243.7
MW-21 (Artesian)
MW-11C
ERT-2
ERT-3
MW-7R
231.1
MW-7B
MW-6B
ERT-4
299
MW-1
MW-1B

130 140 150 160 170 180 190 200 210 220 230 240 250 260

Fairview Ave
Lucas Tpke
Berme Rd
Orchard St
Old Rt 213
Route 213
Gravel Rd
Romans Ln
Andersen Dr
Shawangunk Mountains Scenic Bywy
Quick Rd
Strawberry Bank Rd
Steep Hill Rd
Mohonk Rd
Ann St
School Hill Rd
Canal Rd
Deisew Rd
Mountain View Acres
Mossy Brook Rd
Turtle Crossing
Town of Rosendale
Town of Marbletown
305 ft
300 ft
200 ft
342 ft

Topographic map: World Topographic Map: Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- Groundwater Elevation Contour (feet above msl)
- Dashed Where Inferred
- Groundwater Contour - Depression
- Groundwater Flow Direction
- High Falls Water District

0 350 700 Feet

N

Prepared-Date: LML-2/21/2025
Checked-Date: IM-2/21/2025

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO Pilot Test Groundwater Elevation Contour
RSO Pilot Test - November 2023
Project US-EI-7772210116 Figure 6E

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MW-19 (Not Located)
MW-20
MW-8B
MW-14B
High Falls
MW-10B
MW-9B
MW-18 (Artesian)
MW-17
MW-16
MW-12B
249.5
MW-15B
233.8
MW-13B
MW-5B
299.9
MW-5R
244.5
MW-11B
250
MW-11C
ERT-1
241.6
MW-4
325.3
ERT-2
ERT-3
ERT-4
297.3
MW-7R
241.5
MW-7B
MW-6B
MW-1B
MW-21 (Artesian)

130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280

Lucas Tpke
Berme Rd
Fairview Ave
Orchard St
Old RT 213
State Route 213
Gravel Rd
Romans Dr
Andersen Dr
Shawangunk Mountains Scenic Bywy
Quick Rd
Strawberry Bank Rd
Steep Hill Rd
Mohonk Rd
Ann St
School Hill Rd
Dedow Rd
Canal Rd
Mountain View Acres
Mossy Brook Rd
Turtle Crossing
Town of Rosendale
Town of Marbletown
305 ft
300 ft
200 ft
342 ft

Topographic map: World Topographic Map: Esri Canada, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Legend

- Pilot Test Monitoring Well
- Pilot Test Extraction Well
- Standard Monitoring Well
- FLUTe monitoring Well
- Groundwater Elevation Contour (feet above msl)
- Dashed Where Inferred
- Groundwater Contour - Depression
- Groundwater Flow Direction
- High Falls Water District

0 350 700 Feet

N

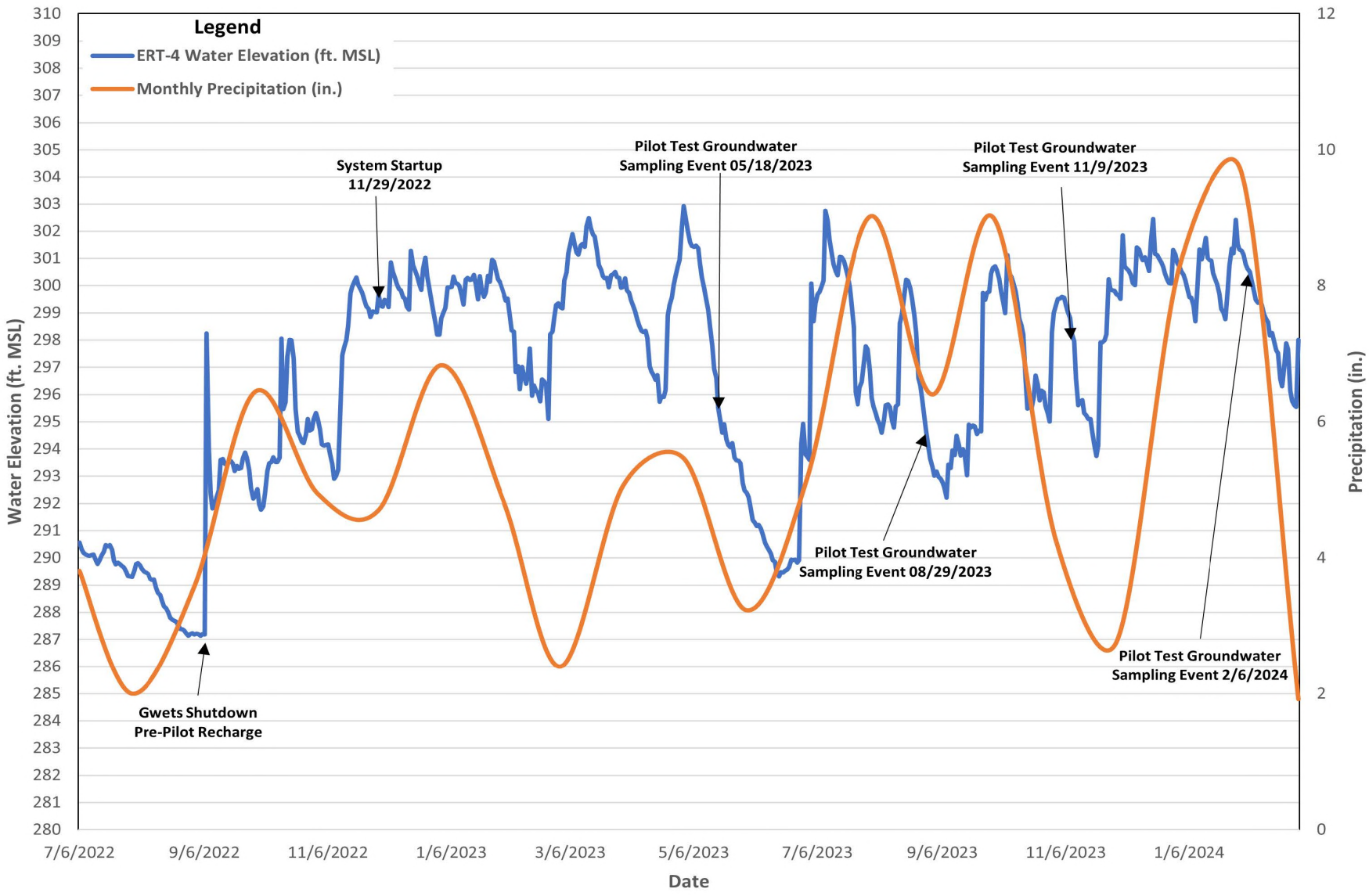
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NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

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Engineering and Geology P.C.

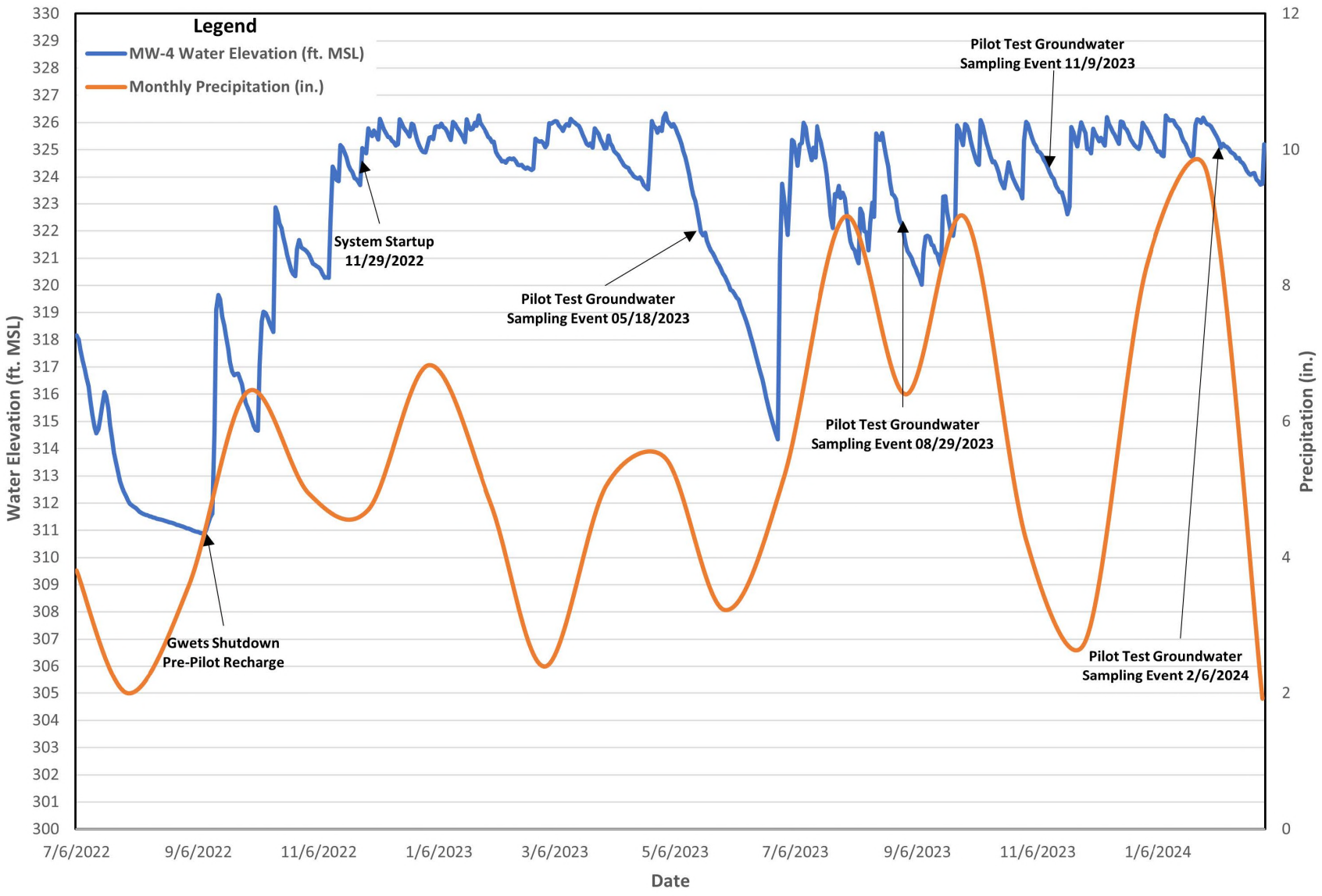
RSO Pilot Test Groundwater Elevation Contour
RSO Pilot Test - February 2024
Project US-EI-7772210116 Figure 6F

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NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO Pilot Test Groundwater Elevation Hydrograph **ERT-4** Project US-EI-7772210116 Figure 7A

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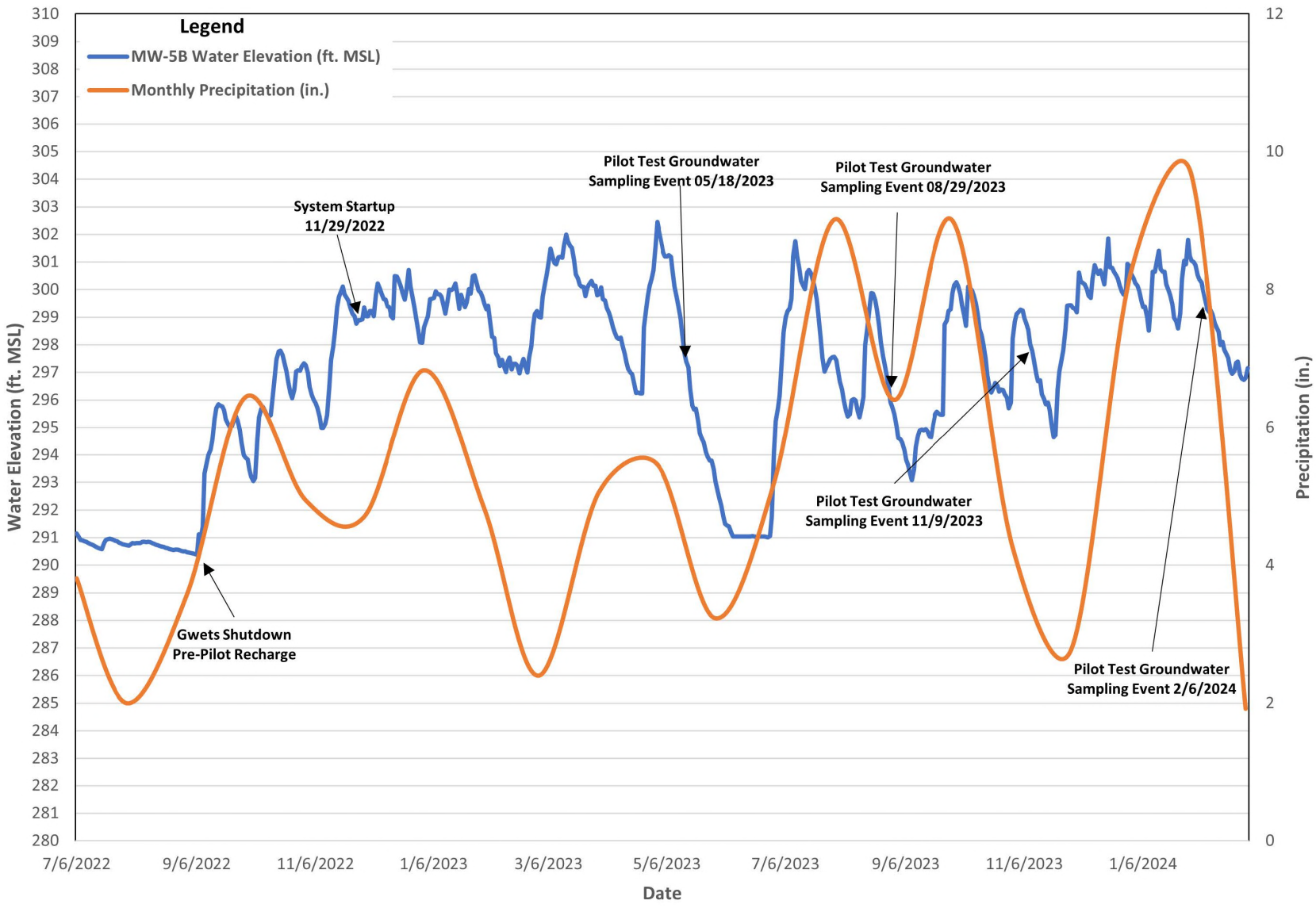


NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO Pilot Test Groundwater Elevation Hydrograph
MW-4
Project US-EI-7772210116 Figure 7B

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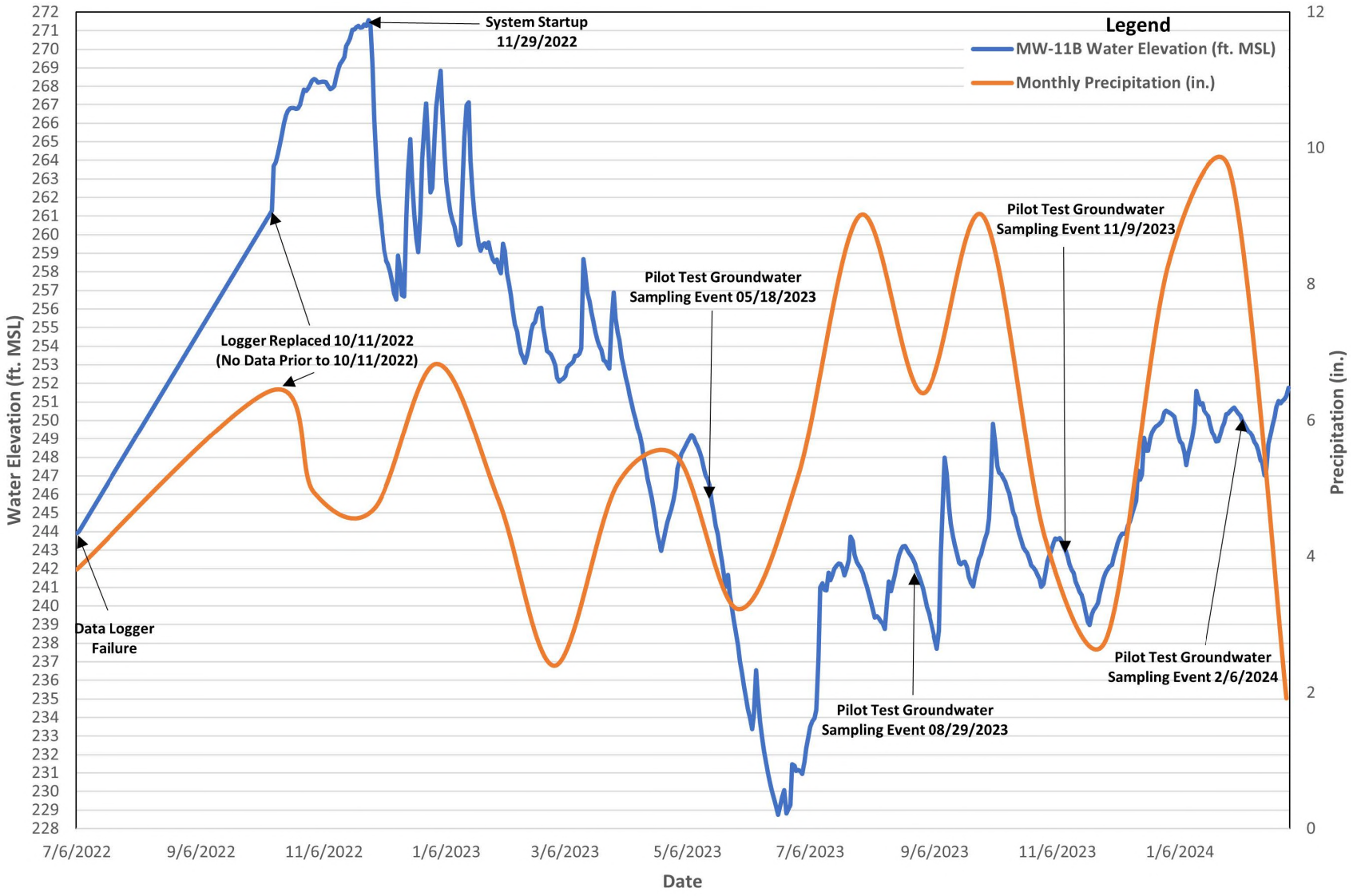
NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO Pilot Test Groundwater Elevation Hydrograph
MW-5B
Project US-EI-7772210116 Figure 7C

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MW-11B

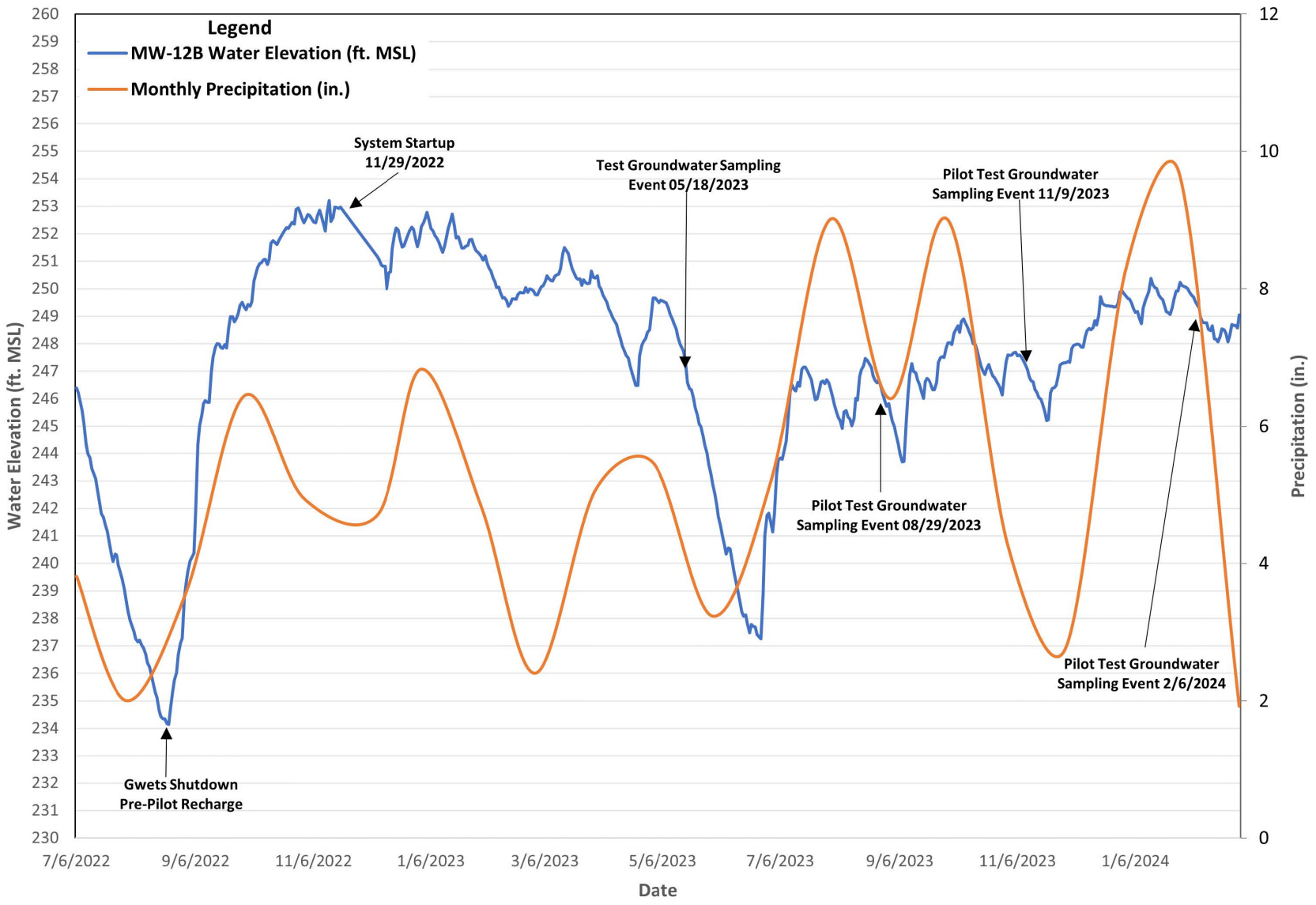


NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

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Engineering and Geology P.C.

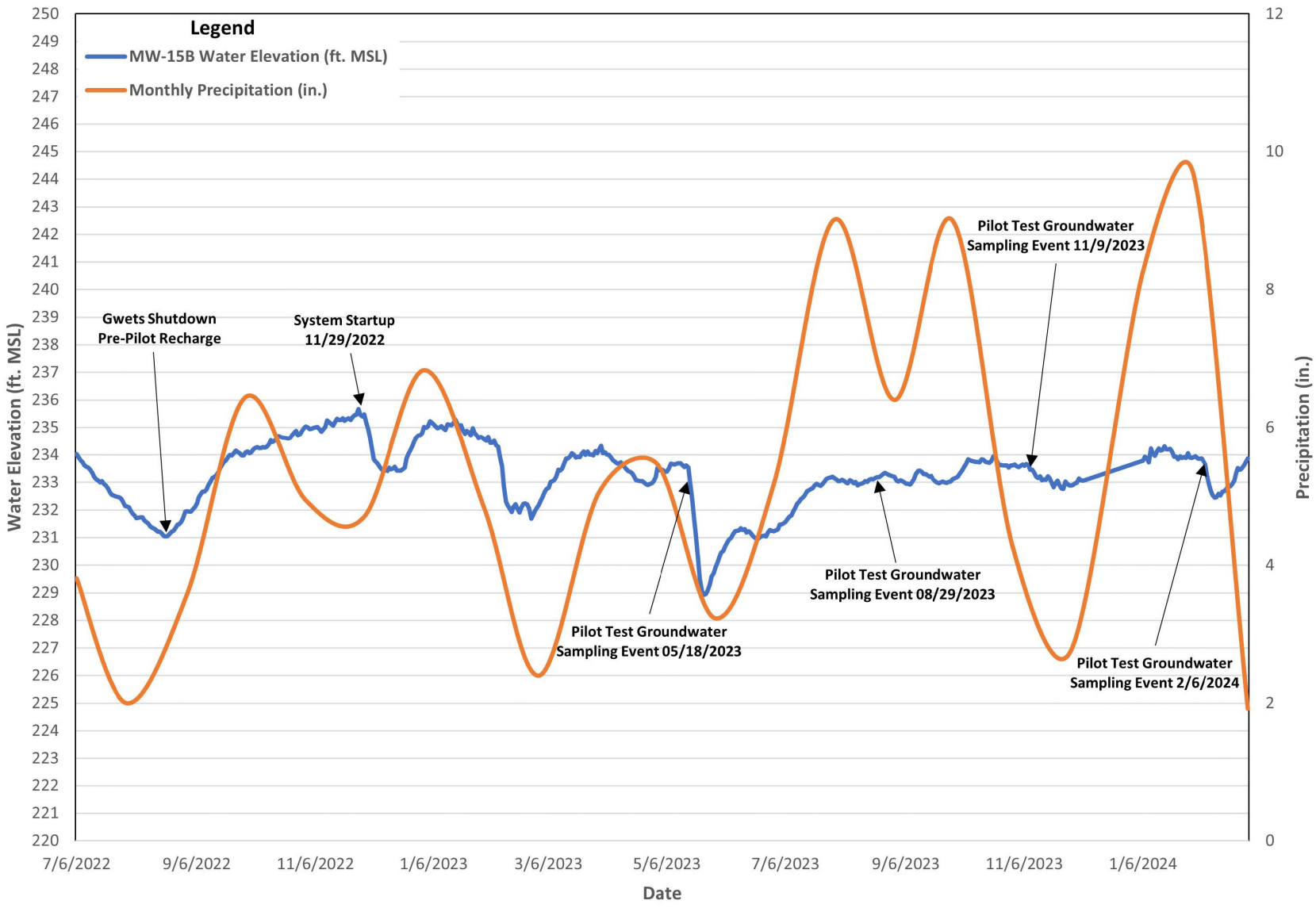
RSO Pilot Test Groundwater Elevation Hydrograph
MW-11B
Project US-EI-7772210116 Figure 7D

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NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO Pilot Test Groundwater Elevation Hydrograph **MW-12B** Project US-EI-7772210116 Figure 7E

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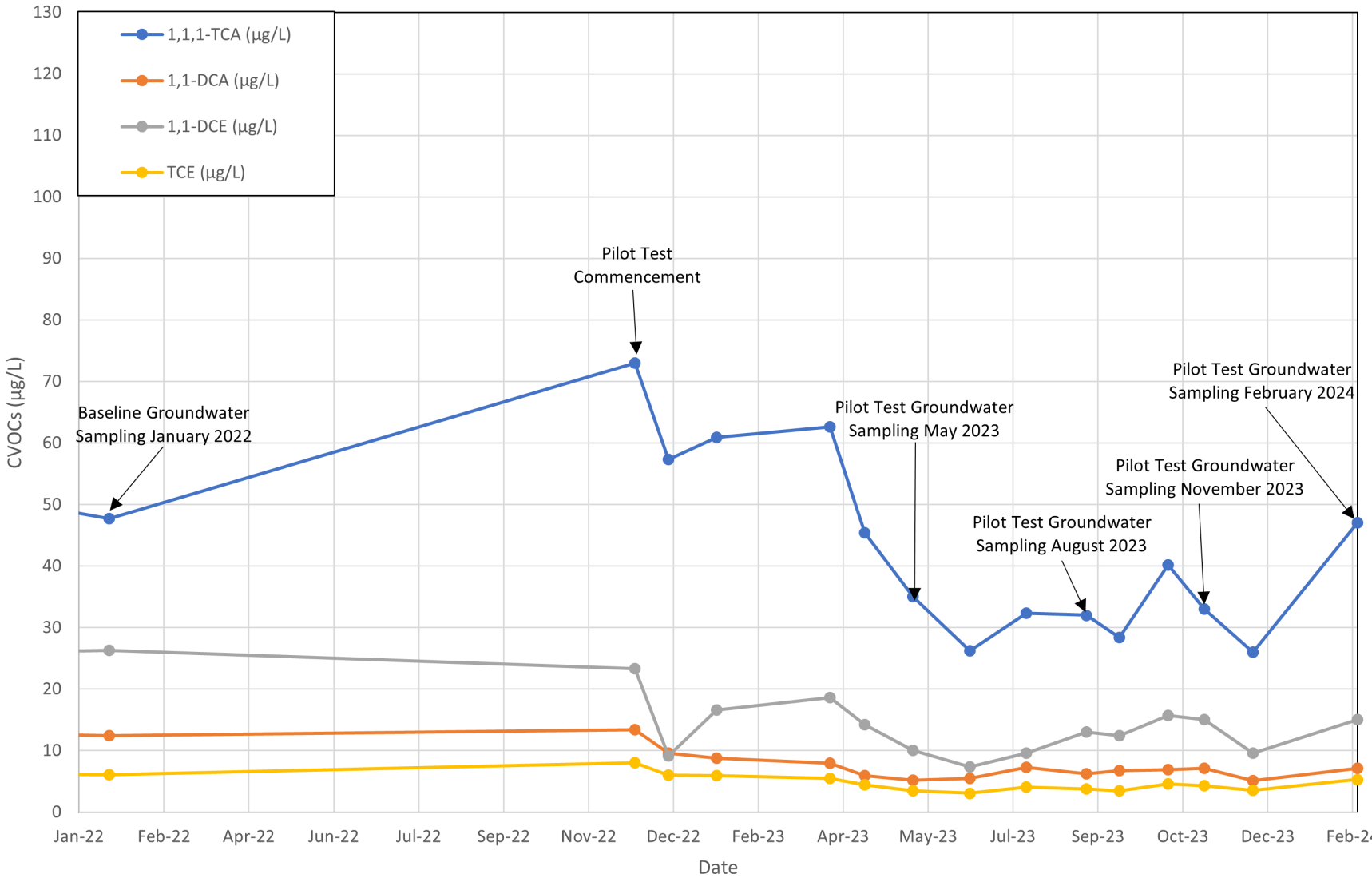


NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO Pilot Test Groundwater Elevation Hydrograph
MW-15B
Project US-EI-7772210116 Figure 7F

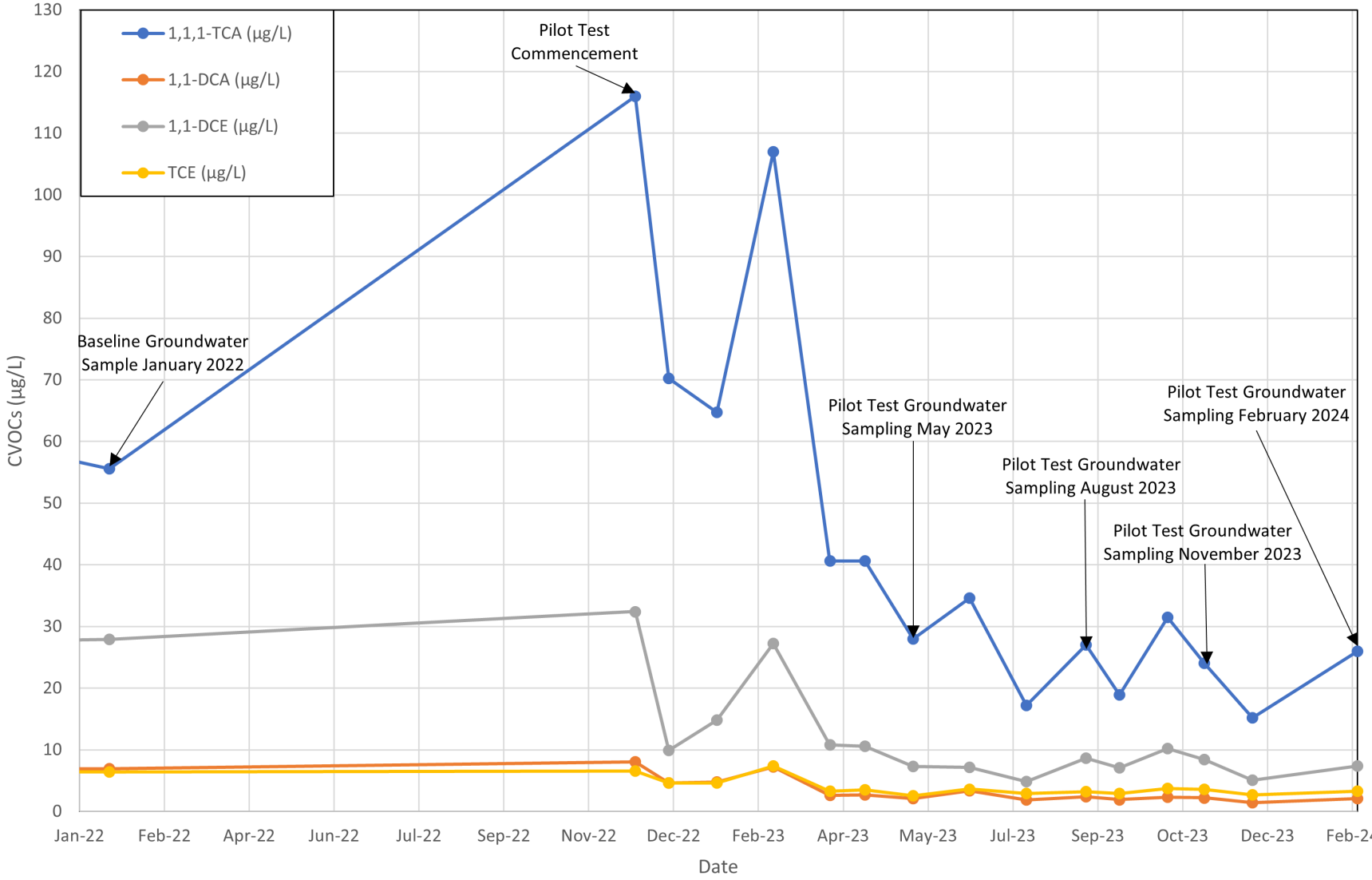
ERT-1



Groundwater Quality Data Used for Sampling Events. System Performance Data Used for All Other Data Points.

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO PT VOC Concentration Trends ERT-1 Project US-EI-7772210116 Figure 8a

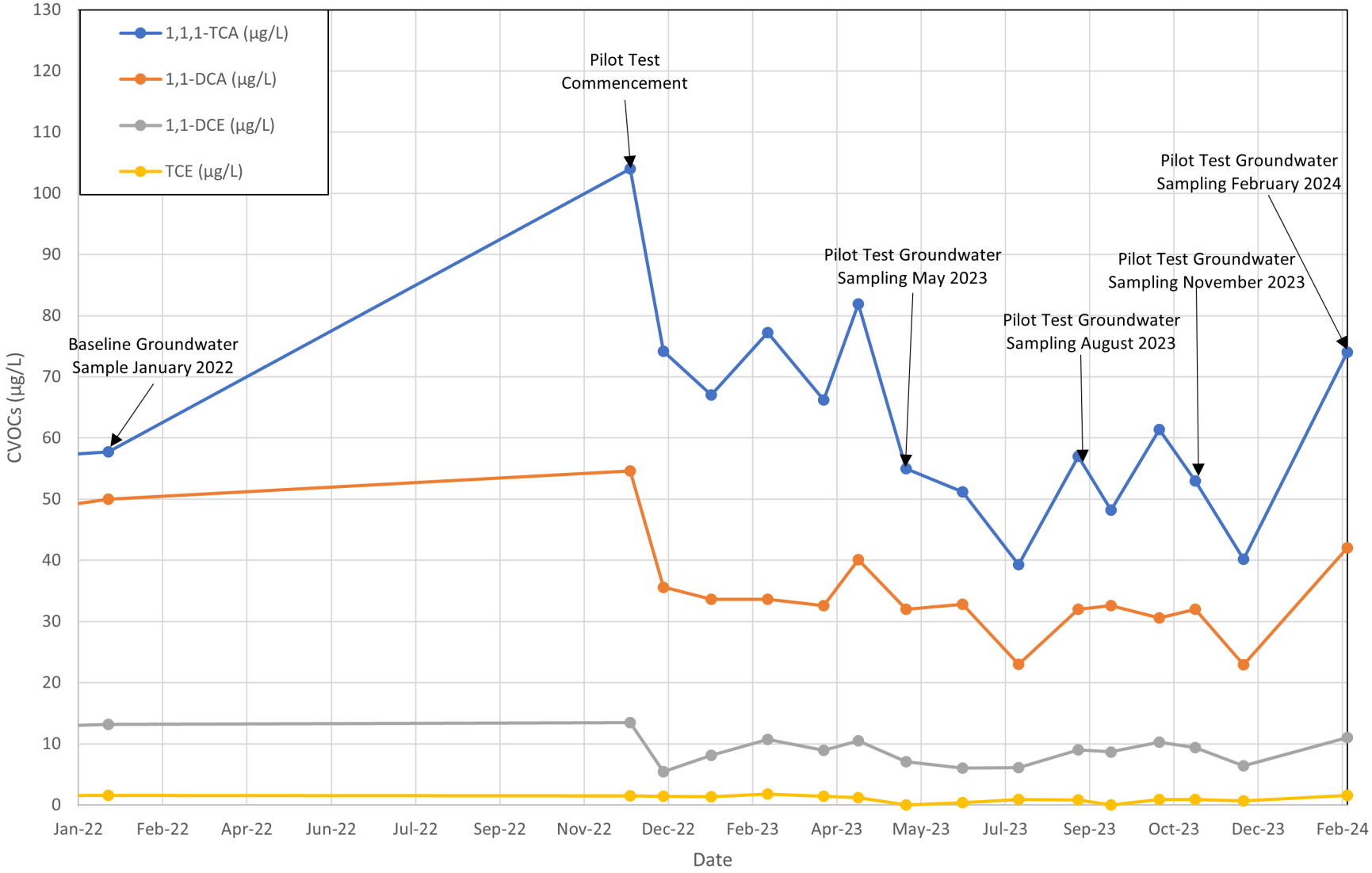
MW-5R



Groundwater Quality Data Used for Sampling Events. System Performance Data Used for All Other Data Points.

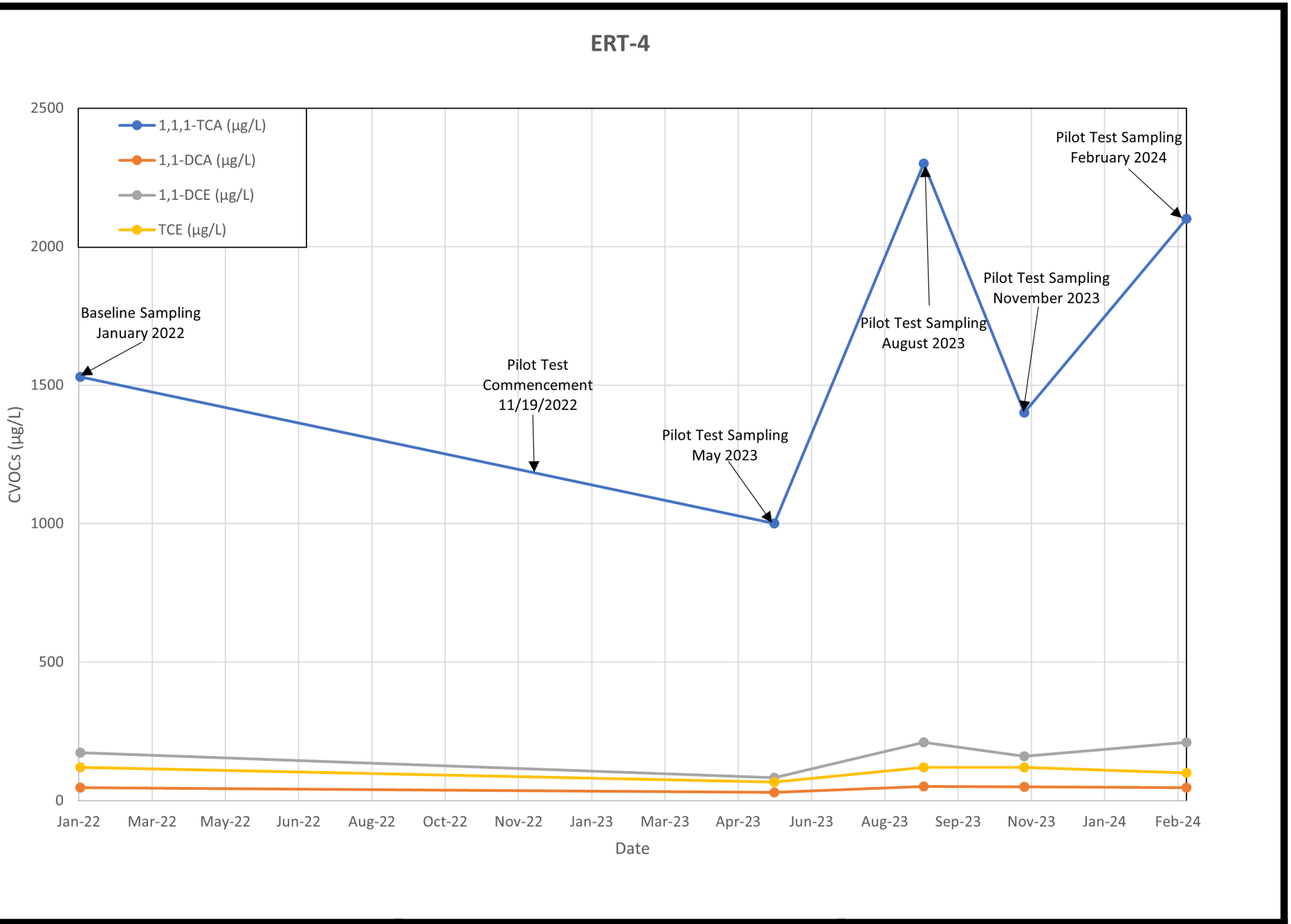
NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO PT VOC Concentration Trends MW-5R Project US-EI-7772210116 Figure 8b

MW-7R



Groundwater Quality Data Used for Sampling Events. System Performance Data Used for All Other Data Points.

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO PT VOC Concentration Trends MW-7R Project US-EI-7772210116 Figure 8c

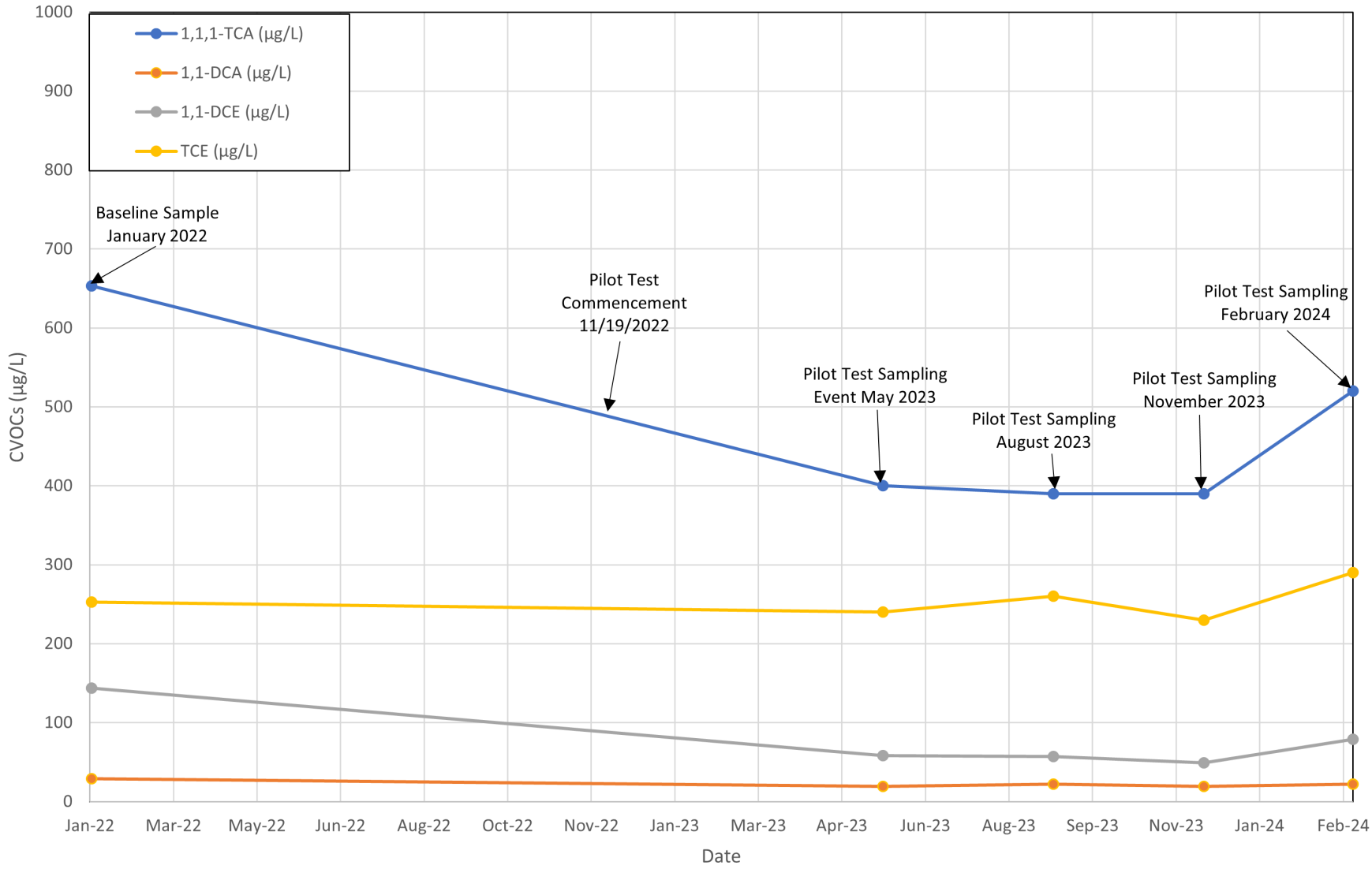


NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

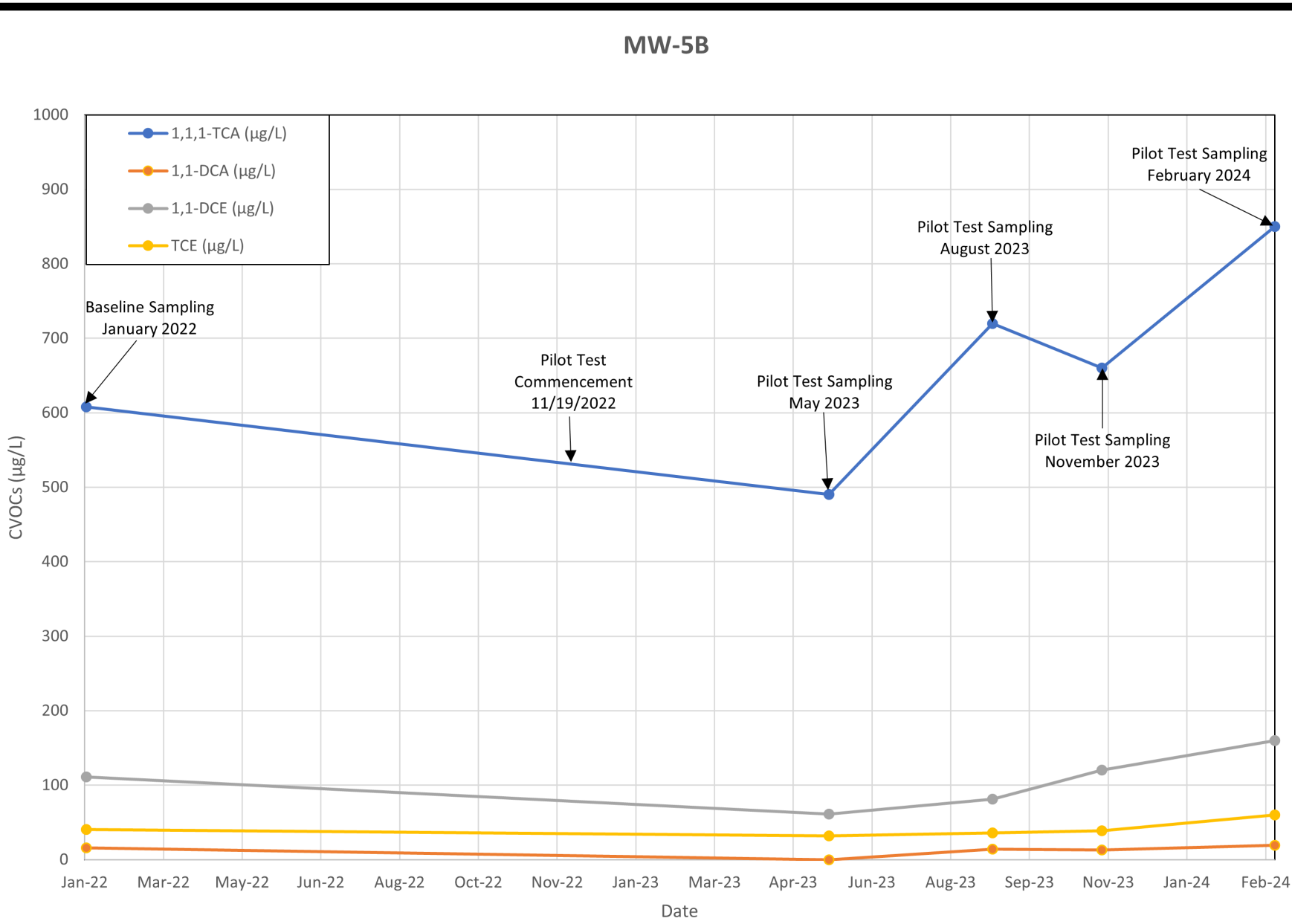
EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO PT VOC Concentration Trends
ERT-4
Project US-EI-7772210116
Figure 8d

MW-4



NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO PT VOC Concentration Trends MW-4 Project US-EI-7772210116 Figure 8e



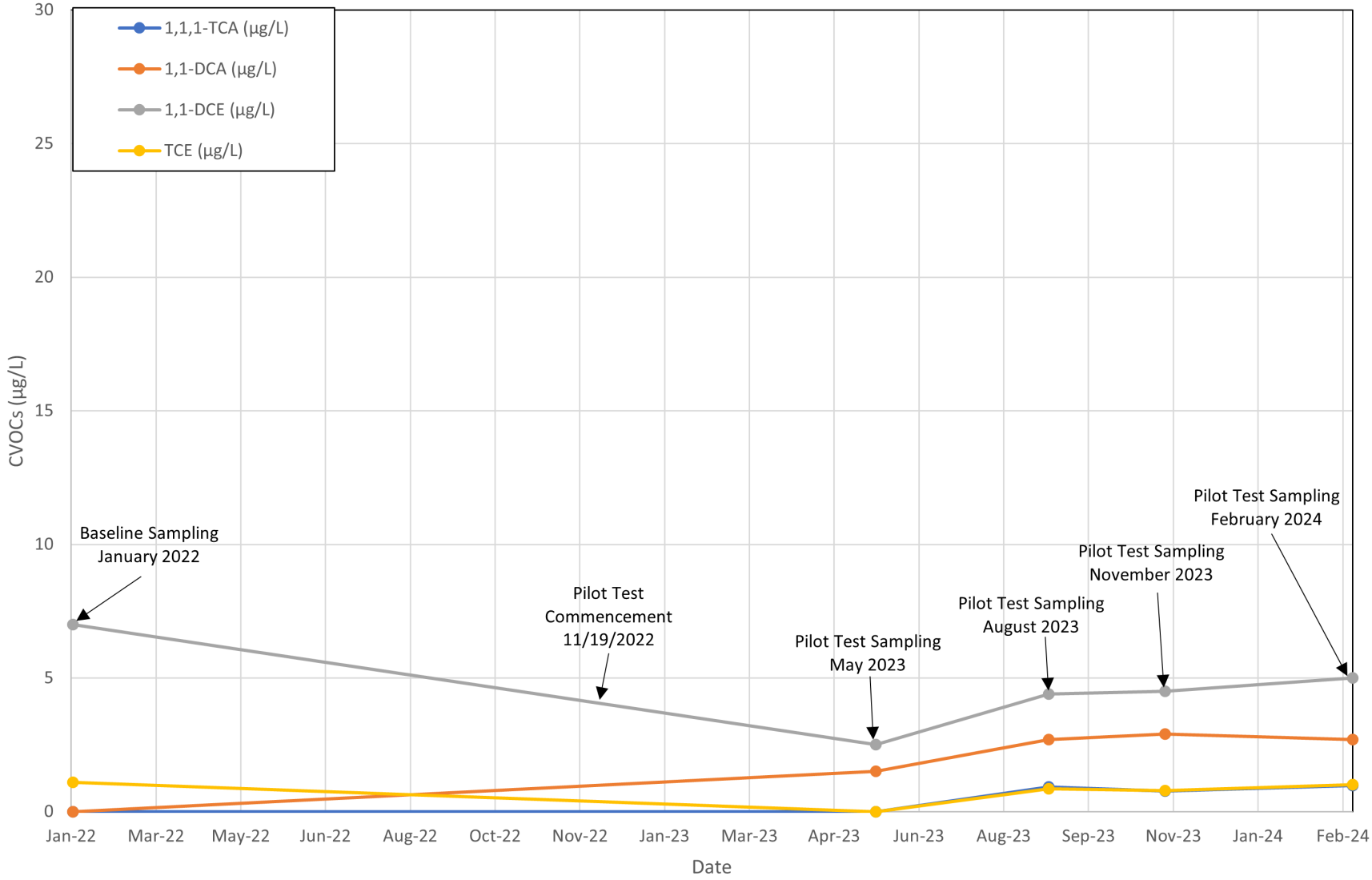
NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

RSO PT VOC Concentration Trends
MW-5B
Project US-EI-7772210116

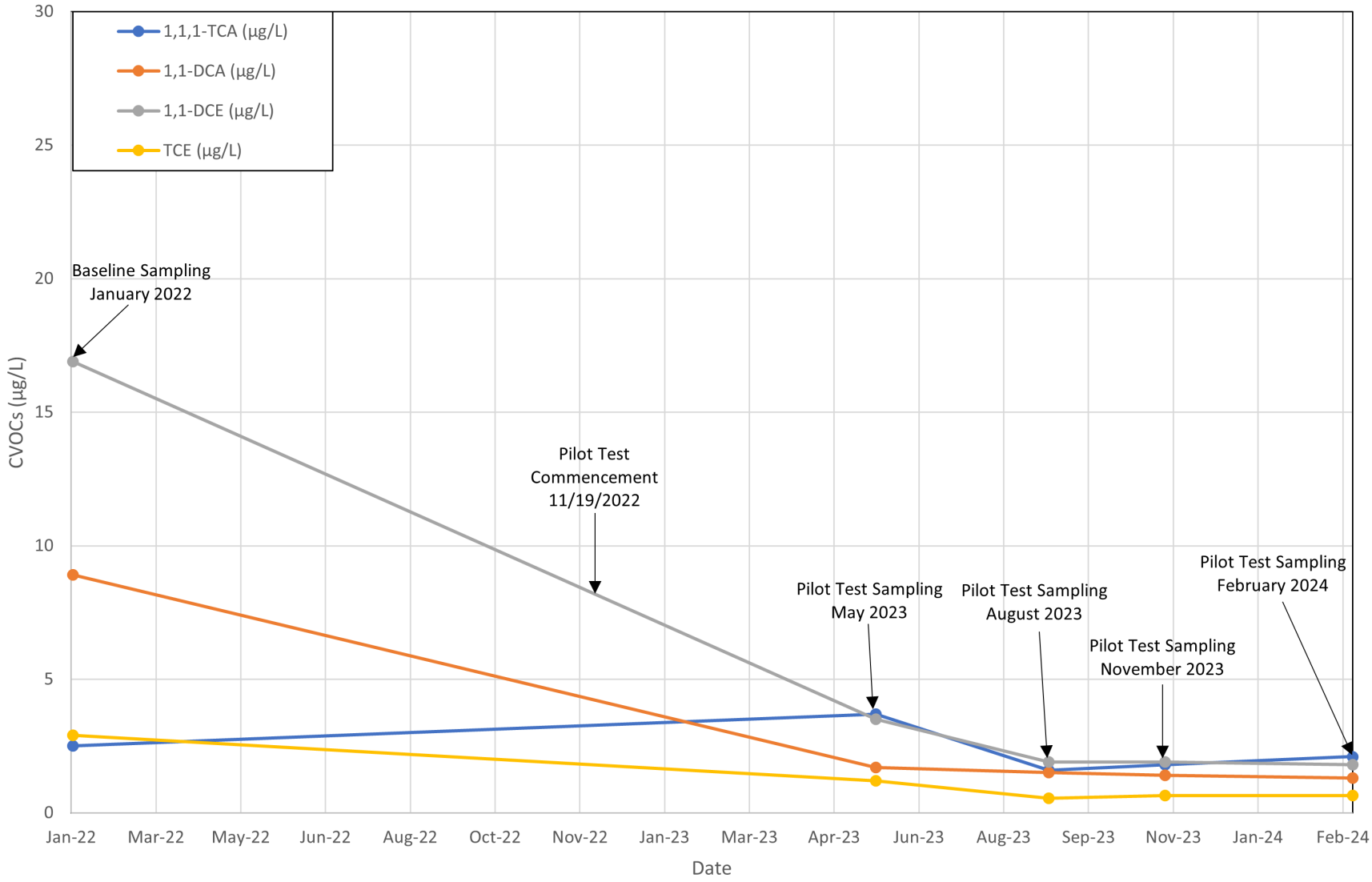
Figure 8f

MW-11B



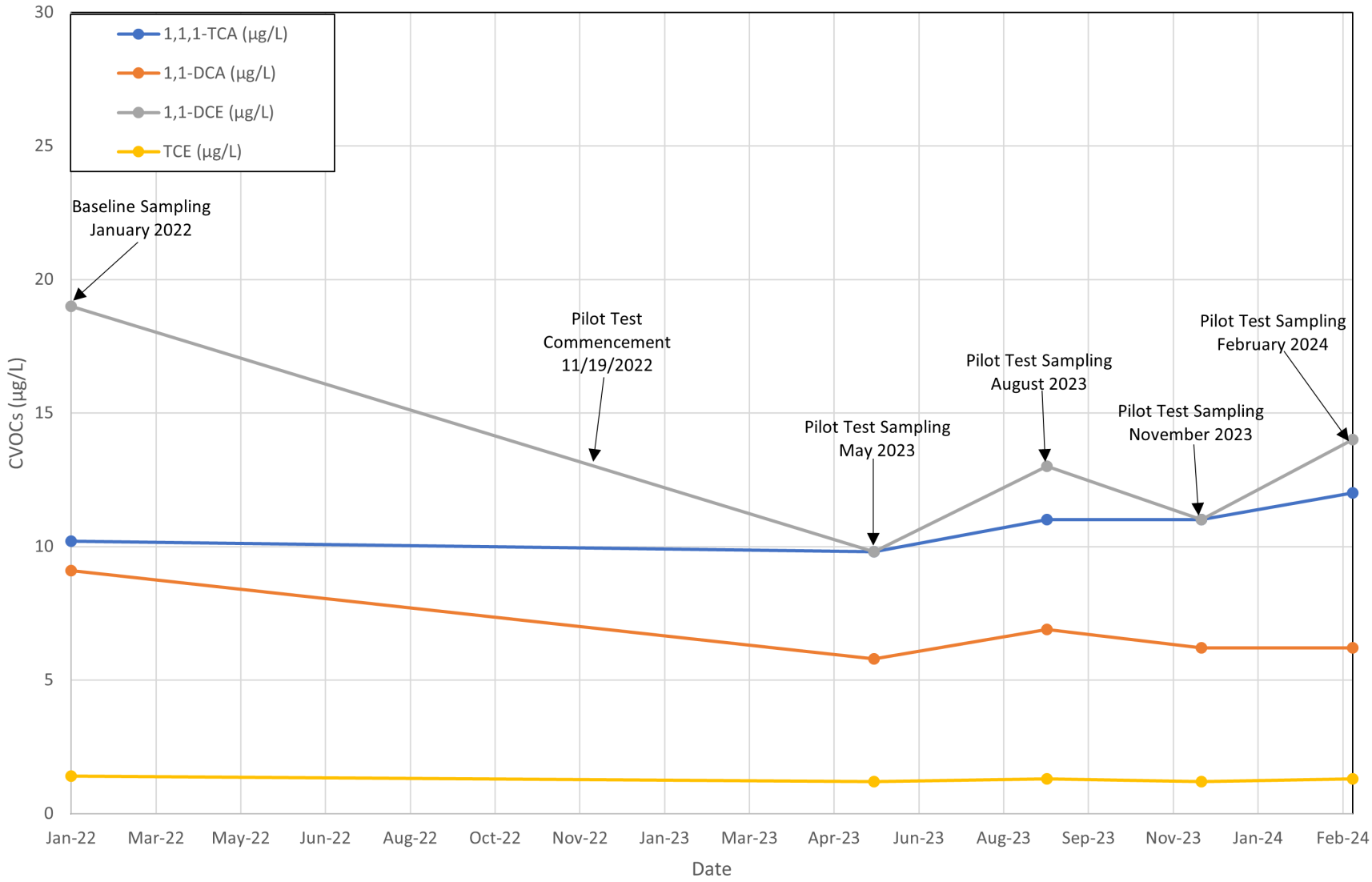
NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO PT VOC Concentration Trends MW-11B Project US-EI-7772210116 Figure 8g

MW-12B



NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	RSO PT VOC Concentration Trends MW-12B Project US-EI-7772210116 Figure 8h

MW-15B

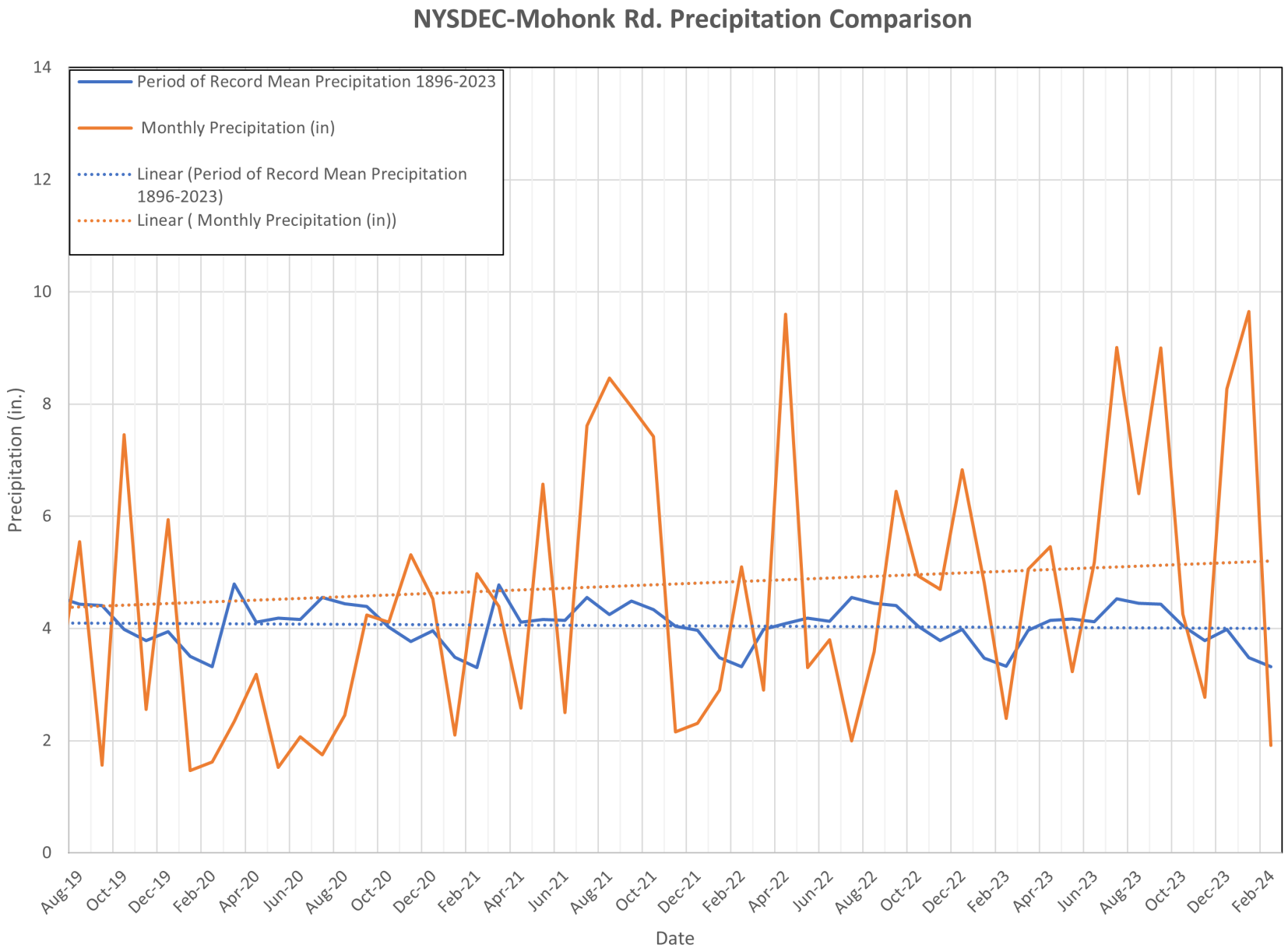


NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
Engineering and Geology P.C.

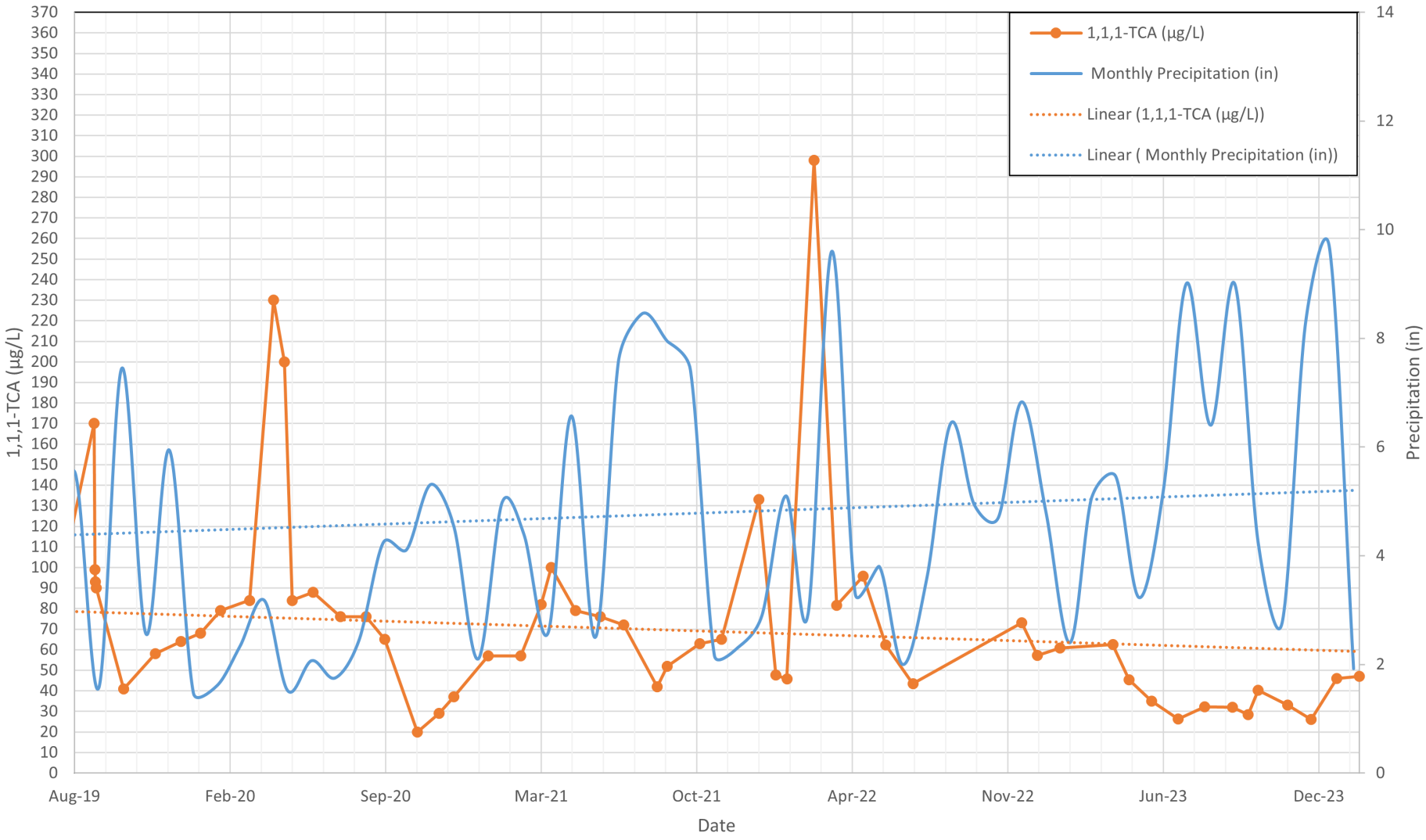
RSO PT VOC Concentration Trends
MW-15B
Project US-EI-7772210116

Figure 8i



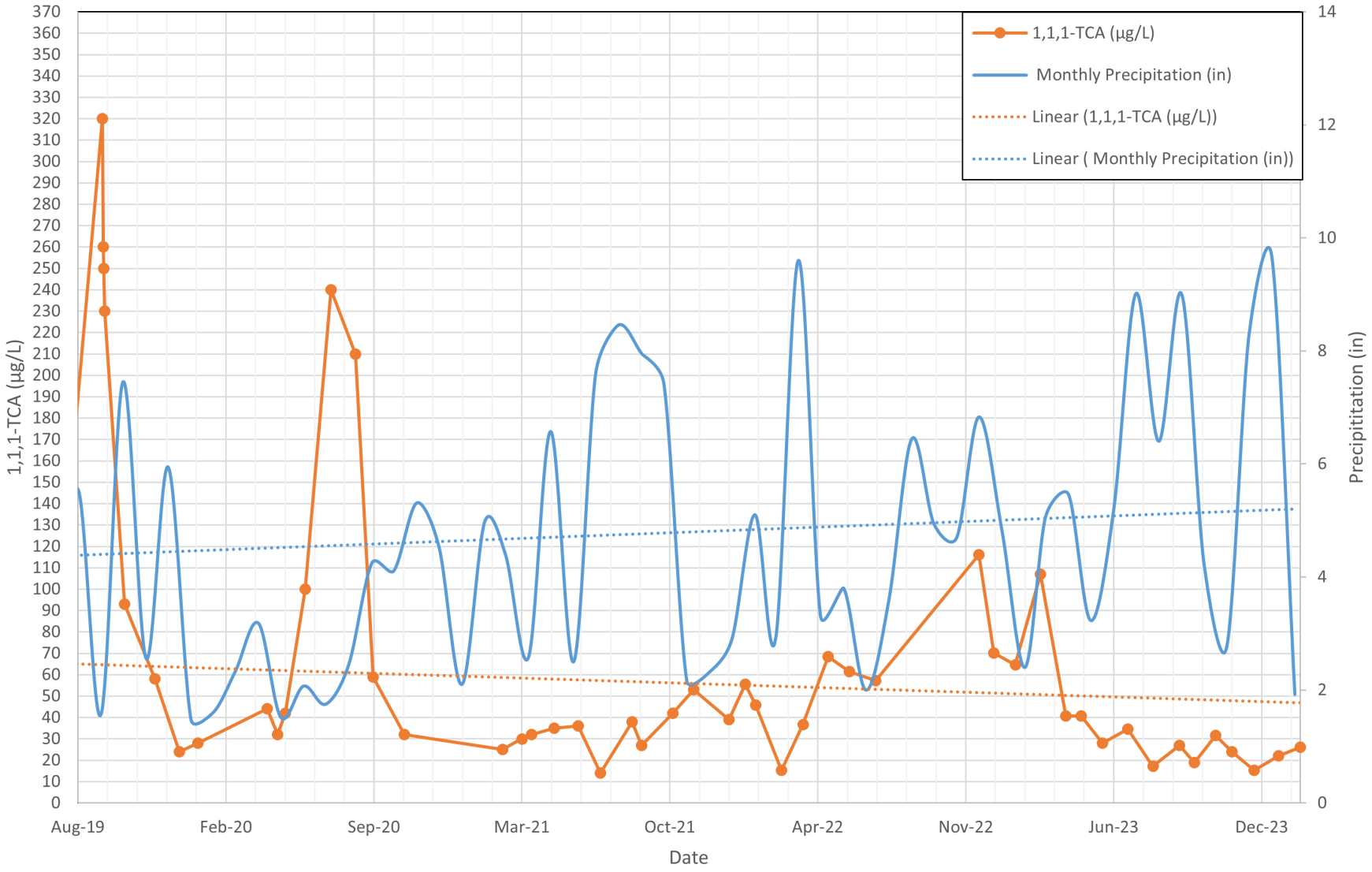
PrecipitationData Source: Daniel Smiley Research Center, Mohonk Preserve, Mohonk Lake, New Paltz, NY

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	Site Monthly Precipitation vs. Historical Mean Precipitation Project US-EI-7772210116 Figure 9



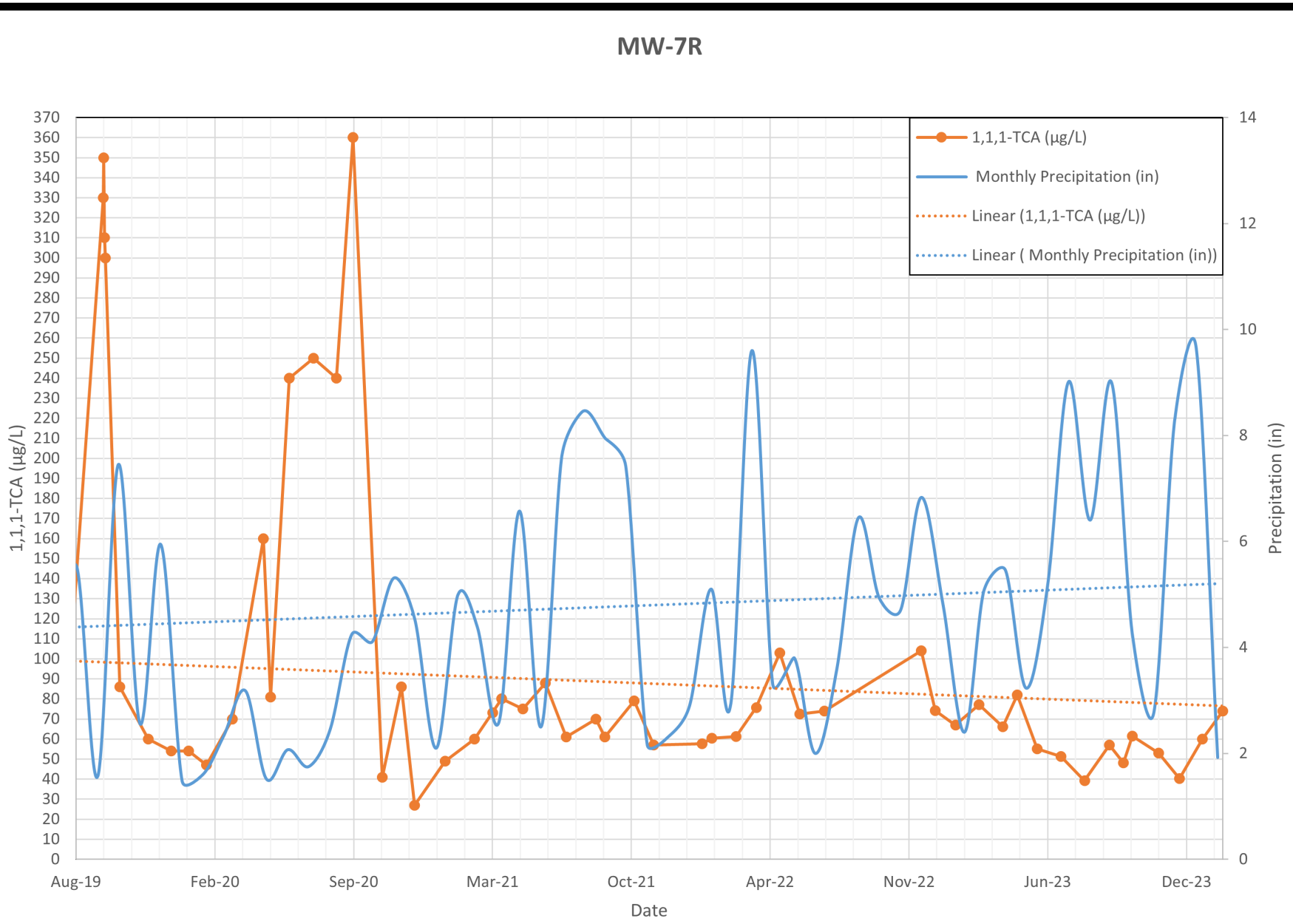
Precipitation Data Source: Daniel Smiley Research Center, Mohonk Preserve, Mohonk Lake, New Paltz, NY
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	GWETS Extraction Well VOC Concentrations vs. Site Monthly Precipitation Project US-EI-7772210116 Figure 10a



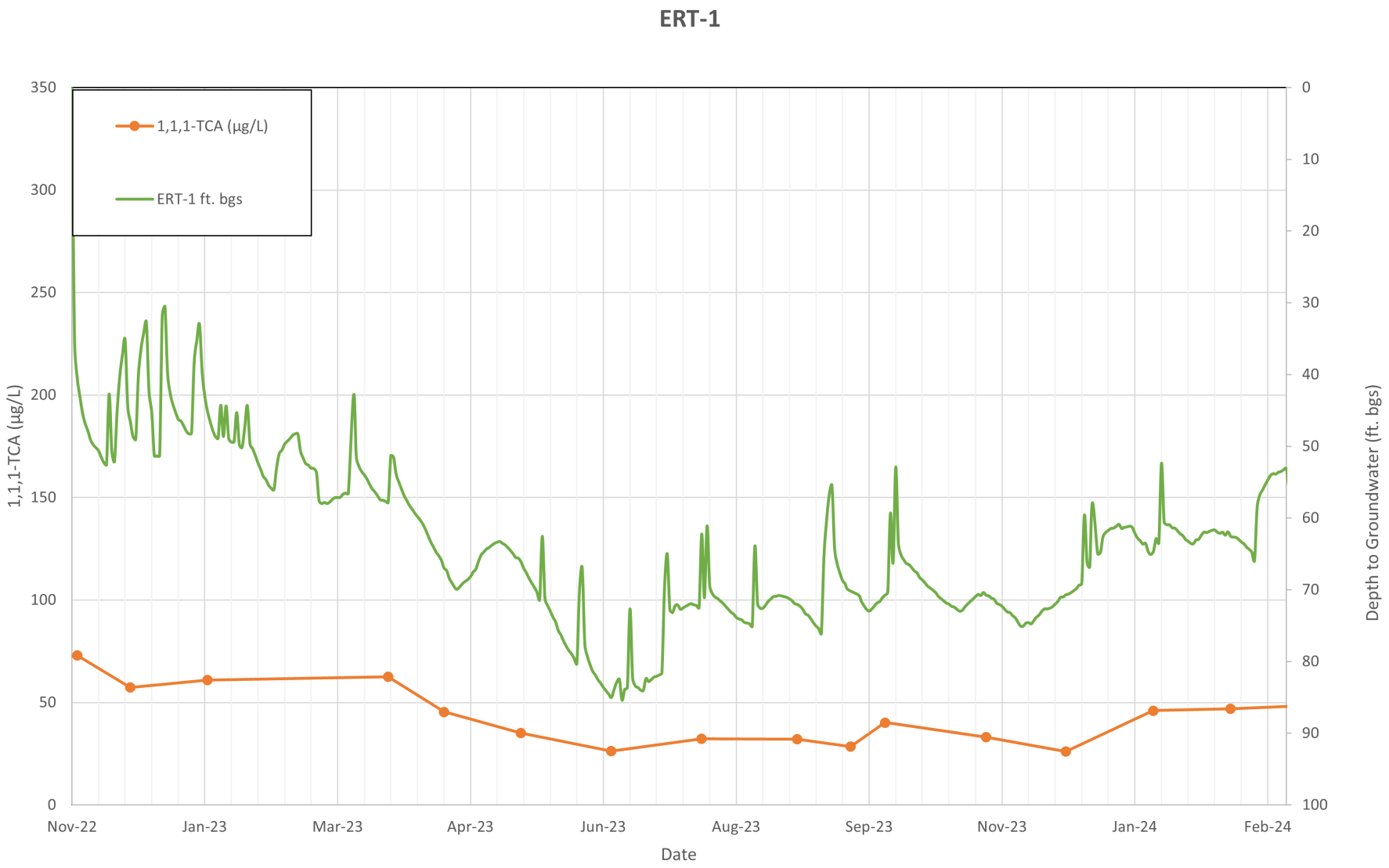
Precipitation Data Source: Daniel Smiley Research Center, Mohonk Preserve, Mohonk Lake, New Paltz, NY
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	GWETS Extraction Well VOC Concentrations vs. Site Monthly Precipitation Project US-EI-7772210116 Figure 10b



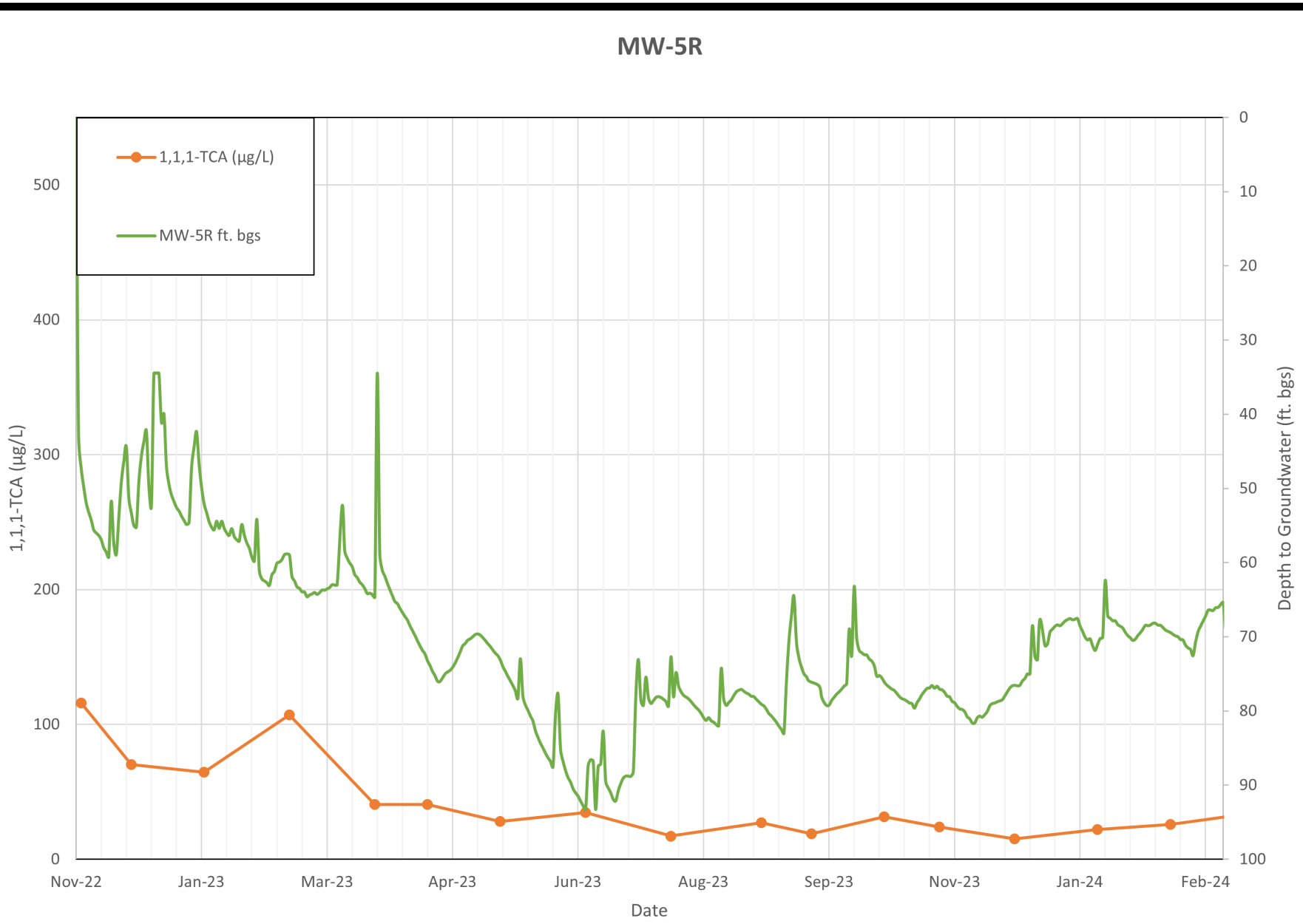
Precipitation Data Source: Daniel Smiley Research Center, Mohonk Preserve, Mohonk Lake, New Paltz, NY
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	GWETS Extraction Well VOC Concentrations vs. Site Monthly Precipitation Project US-EI-7772210116 Figure 10c



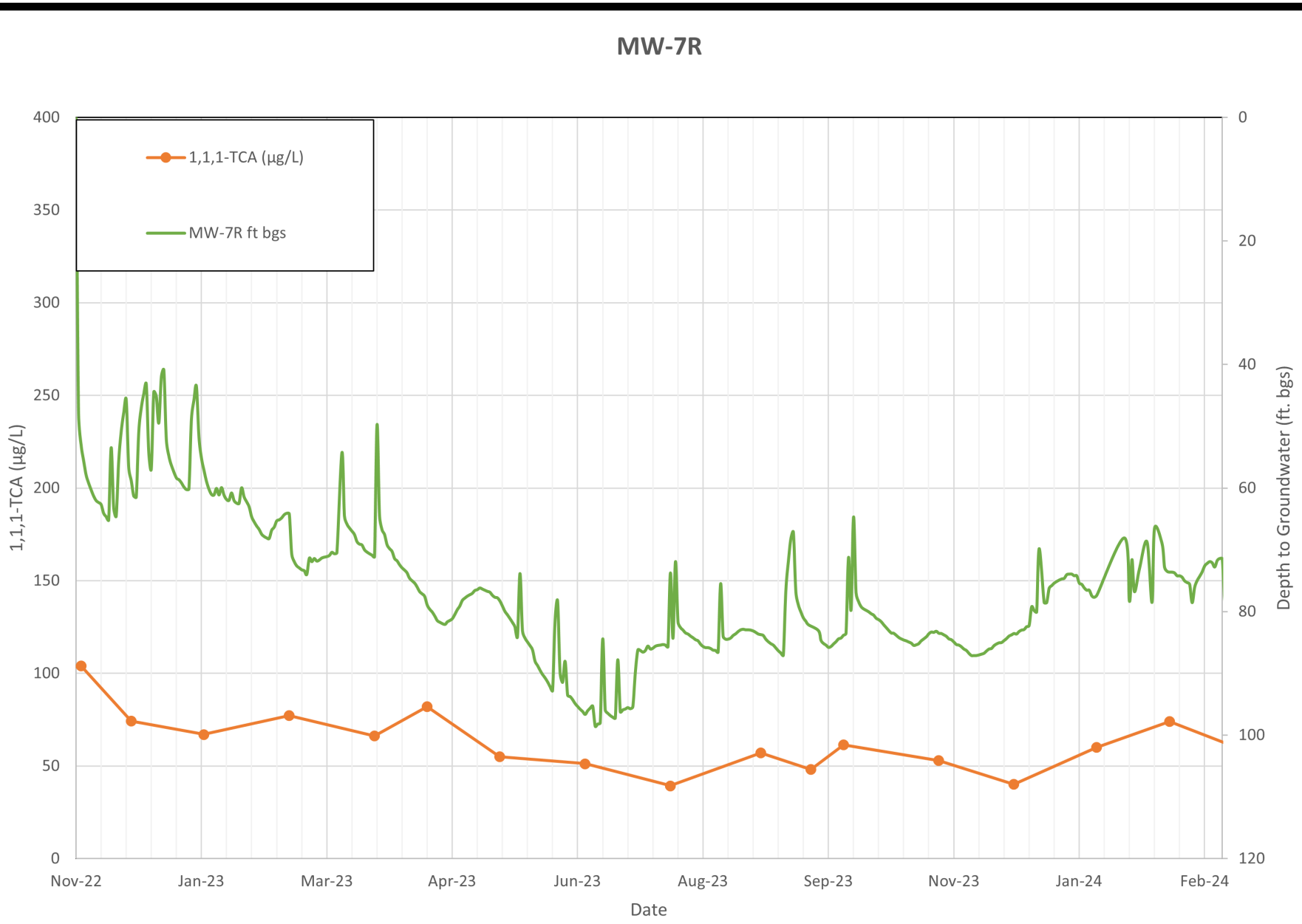
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.
Extraction Well Depth to Water Reported Daily by GWETS

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	Effect of Depth to Groundwater on Extraction Well Concentrations Project US-EI-7772210116 Figure 11a



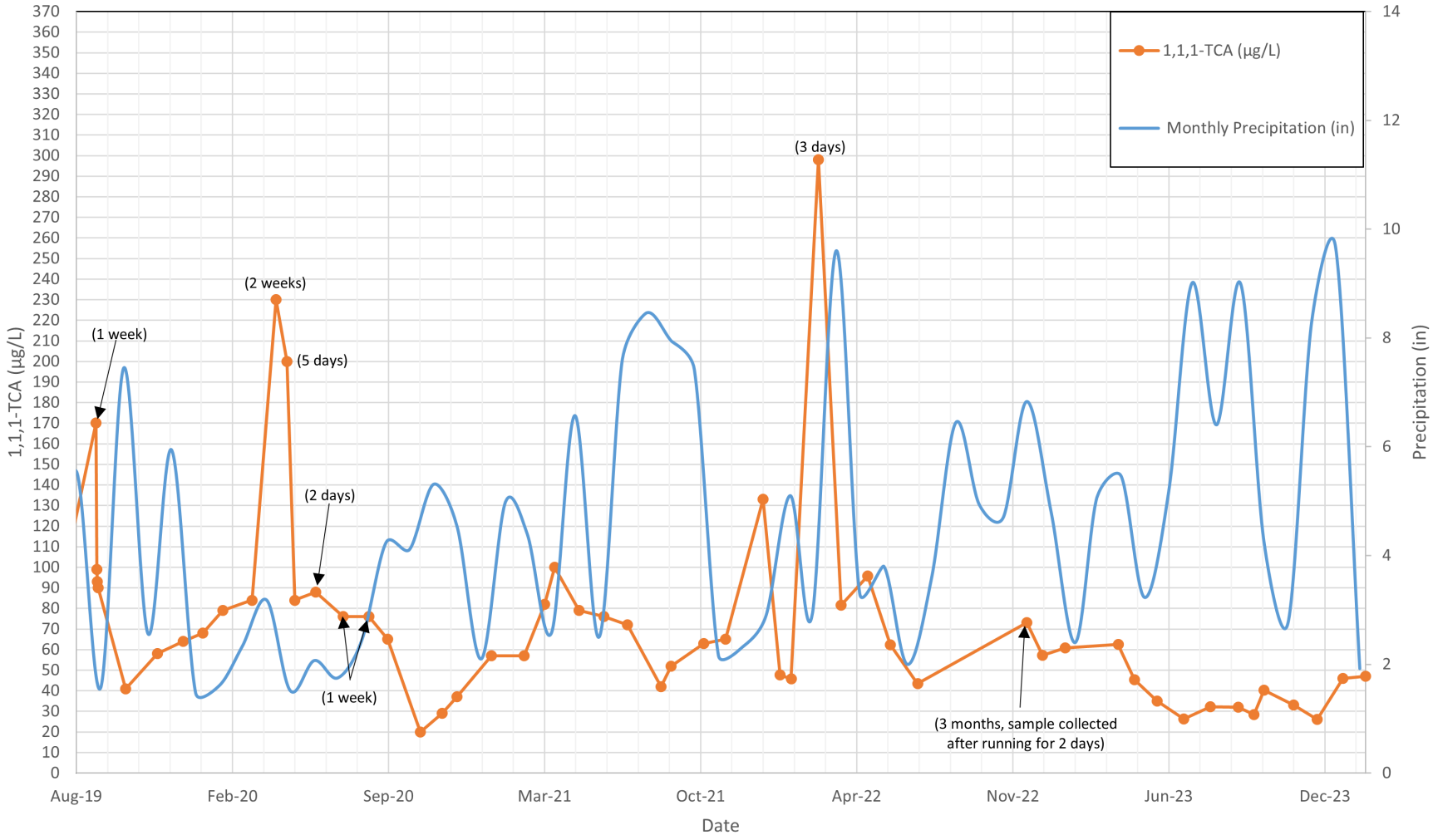
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.
Extraction Well Depth to Water Reported Daily by GWETS

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	Effect of Depth to Groundwater on Extraction Well Concentrations Project US-EI-7772210116 Figure 11b



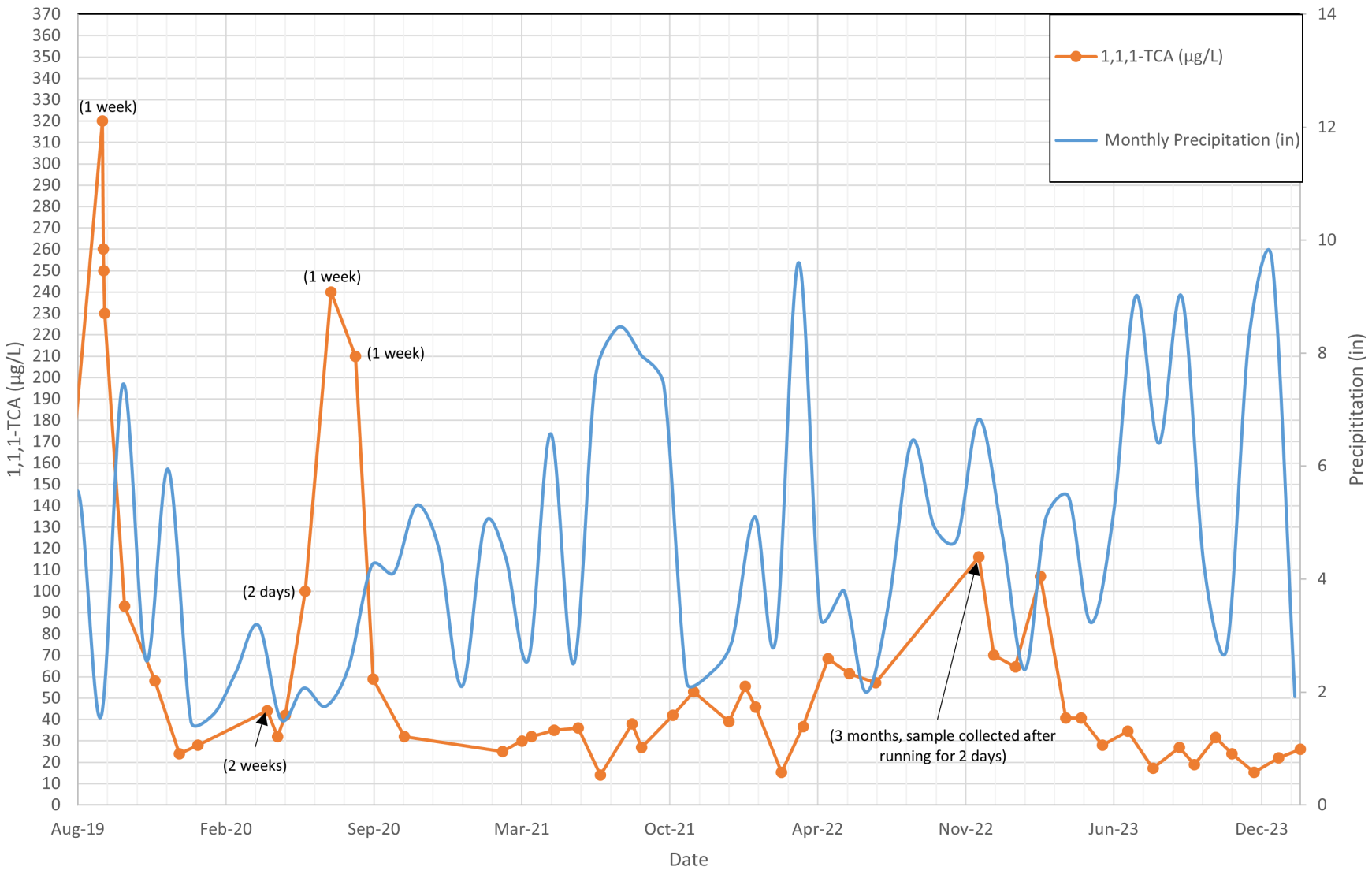
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.
Extraction Well Depth to Water Reported Daily by GWETS

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	Effect of Depth to Groundwater onExtraction Well Concentrations Project US-EI-7772210116 Figure 11c



Downtime Duration Prior to GWETS Sampling Noted in Parenthesis i.e., (1 week)
Precipitation Data Source: Daniel Smiley Research Center, Mohonk Preserve, Mohonk Lake, New Paltz, NY
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.

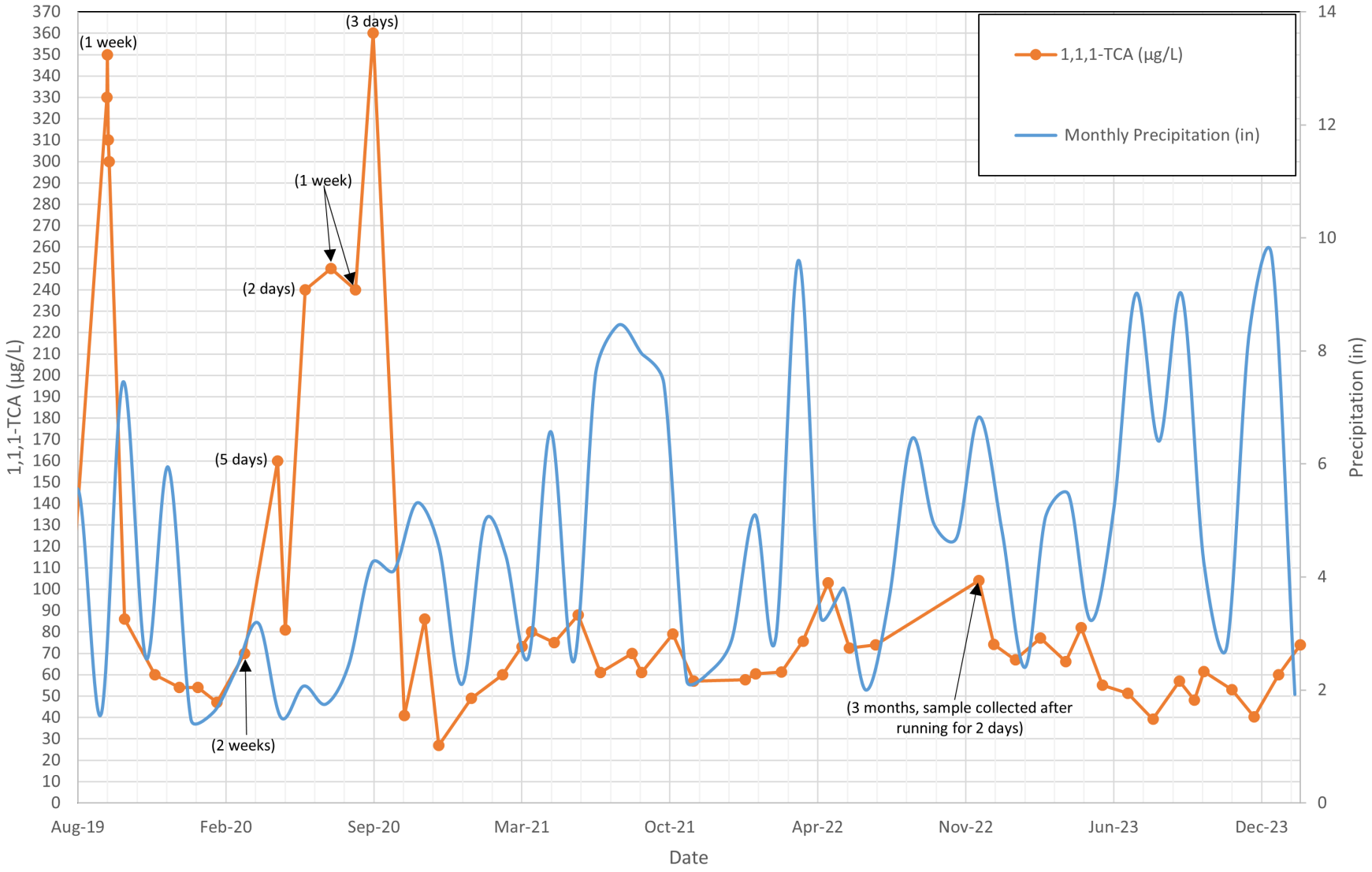
NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	Effect of GWETS Downtime on Extraction Well Concentrations Project US-EI-7772210116 Figure 12a



Downtime Duration Prior to GWETS Sampling Noted in Parenthesis i.e., (1 week)
Precipitation Data Source: Daniel Smiley Research Center, Mohonk Preserve, Mohonk Lake, New Paltz, NY
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	Effect of GWETS Downtime on Extraction Well Concentrations Project US-EI-7772210116 Figure 12b

MW-7R

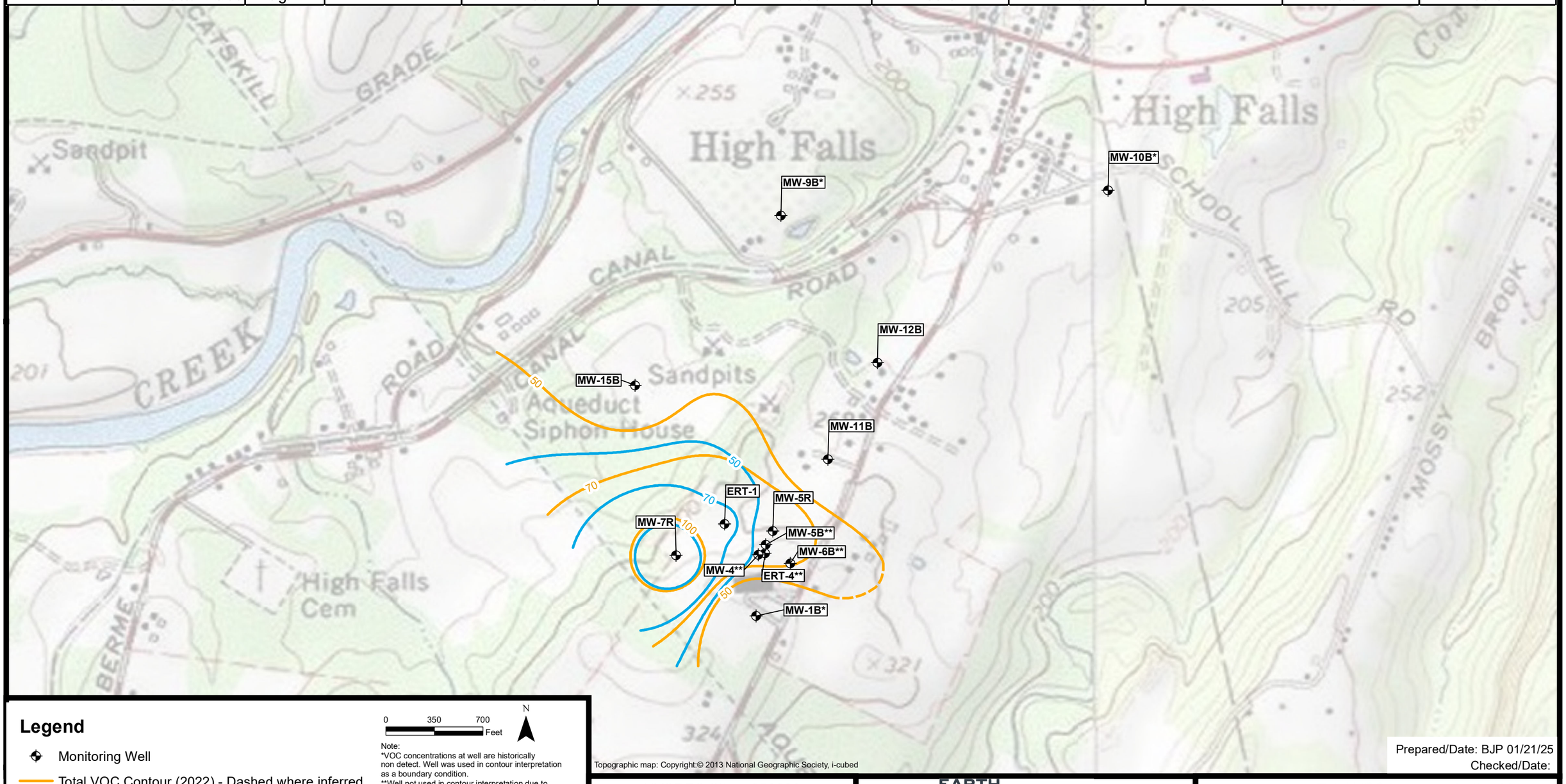


Downtime Duration Prior to GWETS Sampling Noted in Parenthesis i.e., (1 week)
Precipitation Data Source: Daniel Smiley Research Center, Mohonk Preserve, Mohonk Lake, New Paltz, NY
Groundwater Quality Data Used for Sampling events. System Performance Data Used for all other data.

NYSDEC Site # 356023 Mohonk Road Industrial Plant Marbletown, New York	EARTH ENVIRONMENT Engineering and Geology P.C.	Effect of GWETS Downtime on Extraction Well Concentrations Project US-EI-7772210116 Figure 12c

Document: \\corp.pbwan.net\GLB-E&I\US\USPWM100-PLD2\Project\Projects\NYSDEC__General NYSDEC Information D009809\Database\GIS\Mohonk GIS\MapDocuments\Pilot_Test_totalVOC_11x17LS.mxd PDF: P:\Projects\NYSDEC__General NYSDEC Information D009809\Database\GIS\Mohonk GIS\Figures\Groundwater Pilot Testing 2022_2023\Figure 2 - Pre Pilot Water Elev Nov 2022.pdf 2/27/2025 1:37:06 PM USBP718127

Location		ERT-1	ERT-4	MW-4	MW-5B	MW-5R	MW-7R	MW-11B	MW-12B	MW-15B
	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result
Jan 2022 Total VOCs	ug/L	92.5	1879.2	1088.7	777.9	96.8	124.5	8.1	32.2	39.7
Feb 2024 Total VOCs	ug/L	74.4	2456	922	1089	38.8	129.9	9.17	5.84	33.5



Prepared/Date: BJP 01/21/25
Checked/Date:

NYSDEC Site # 356023
Mohonk Road Industrial Plant
Marbletown, New York

EARTH ENVIRONMENT
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Total VOC Isoconcentration Map

Project US-EI-7772210116 Figure 13

TABLES

Table 1 - Site Monitoring Well Network

Well I.D.	X Coordinate	Y Coordinate	Screening Interval (ft bgs)	Total Well Depth (ft BGS)	Well Detail	Sampling Frequency	Expected Role of the Well
ERT-1*	571897.25	4629866	28-195	195	Active Extraction Well, GWETS Performance Well	Monthly - GWETS Performance / PT / LTM	Onsite Deep Bedrock/Source Well
ERT-4	571979.5	4629806.5	UNK-50	50	Pilot Test MW	PT / LTM	Onsite Shallow Bedrock Well
MW-1B	571967.38	4629665	22-100	100	Standard MW	LTM	Background Monitoring Well
MW-4	571971.06	4629799	11-21.5	21.5	Pilot Test MW	PT / LTM	Onsite Shallow Bedrock Well
MW-5B	571981.81	4629825.5	19-36.2	36.2	Pilot Test MW	PT / LTM	Onsite Shallow Bedrock Well
MW-5R*	572003.06	4629852	13-125	125	Active Extraction Well, GWETS Performance Well	Monthly - GWETS Performance / PT / LTM	Onsite Deep Bedrock/Source Well
MW-6B	572042.38	4629780.5	39-100	100	Standard MW	LTM	Onsite Deep Bedrock/Source Well
MW-7R*	571790.75	4629797	28-180	180	Active Extraction Well, GWETS Performance Well	Monthly - GWETS Performance / PT / LTM	Onsite Deep Bedrock/Source Well
MW-8B	572249.41	4630989.19	48-100	100	Standard MW	LTM	Perimeter Monitoring Well
MW-9B	572016.88	4630545	95-145	145	Standard MW	LTM	Perimeter Monitoring Well
MW-10B	572734.6	4630604	24-100	100	Standard MW	LTM	Perimeter Monitoring Well
MW-11B	572126.19	4630011	49-181	181	Pilot Test MW	PT / LTM	Mid-Plume Monitoring Well
MW-11C	572125	4630007	47-220	220	Standard MW	LTM	Mid-Plume Monitoring Well
MW-12B	572234.19	4630222.41	17-200	200	Pilot Test MW	PT / LTM	Mid-Plume Monitoring Well
MW-13B	571312.94	4630103	78-200	200	Standard MW	NS	Perimeter Monitoring Well
MW-14B	572600.32	4630930.34	24-155	155	Standard MW	LTM	Perimeter Monitoring Well
MW-15B	571701.56	4630172.5	38-150	150	Pilot Test MW	PT / LTM	Mid-Plume Monitoring Well
MW-16	572083.65	4630265.75	73-93	93	Standard MW	LTM	Mid-Plume Monitoring Well

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 1 - Site Monitoring Well Network

Well I.D.	X Coordinate	Y Coordinate	Screening Interval (ft bgs)	Total Well Depth (ft BGS)	Well Detail	Sampling Frequency	Expected Role of the Well
MW-17 - 1	572545.72	4630421.63	47-57	57	Flute Well	LTM	Mid-Plume Monitoring Well
MW-17 - 2			102.5-110	110		LTM	Mid-Plume Monitoring Well
MW-17 - 3			124-129	129		LTM	Mid-Plume Monitoring Well
MW-21 - 1	572596	4630042	42.75-48	48	Flute Well	LTM	Perimeter Monitoring Well
MW-21 - 2			67-69.5	69.5		LTM	Perimeter Monitoring Well
MW-21 - 4			121.5-124	124		LTM	Perimeter Monitoring Well
MW-21 - 5			142.5-145	145		LTM	Perimeter Monitoring Well
MW-21 - 6			160.5-163	163		LTM	Perimeter Monitoring Well

Notes:
ft bgs = feet below grade surface
* Packers Installed for Remedial System Optimization Pilot Test (RSO PT) at following depths below Top of MW Casing : ERT-1 (125 ft), MW-5R (102 ft), and MW-7R (109 ft)
PT = Pilot Test Sampling during RSO PT.
LTM = Long Term Monitoring Sampling every 15 months.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 2 - GWETS Data Logs - RSO Pilot Test Reporting Period

Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
11/29/2022	-	-	-	-	-	-		0	0	0	System turned on for pilot test start		
11/30/2022	-43.01	-47.84	-35.55	6.9	6.4	7.5	20.8	6755	6877	7322			
12/1/2022	-47.22	-52.97	-40.53	8.3	7.3	9.5	25.1	18583	17358	20728			
12/2/2022	-49.76	-55.53	-43.07	7.9	7.0	9.4	24.3	30171	27637	34396			
12/3/2022	-51.92	-57.87	-45.41	8.8	7.3	9.4	25.5	42778	31982	47954			
12/4/2022	-53.20	-59.19	-46.86	8.6	7.2	9.3	25.1	55302	48590	61381			
12/5/2022	-54.24	-60.29	-47.85	8.4	7.0	9.2	24.6	67570	58795	74672			
12/6/2022	-55.59	-61.30	-49.09	8.3	6.9	9.1	24.3	80133	69255	88389			
12/7/2022	-56.01	-62.03	-49.77	8.3	6.8	9.0	24.1	92035	79152	101447			
12/8/2022	-56.35	-62.35	-50.18	8.2	6.8	9.0	24.0	103894	88981	114466			
12/9/2022	-56.93	-62.67	-50.60	8.2	6.7	9.0	23.9	115665	98742	127453			
12/10/2022	-58.00	-64.09	-51.48	8.7	7.3	9.4	25.4	128139	109292	140955			
12/11/2022	-58.58	-64.64	-52.26	8.6	7.3	9.3	25.2	140522	119809	154442			
12/12/2022	-59.25	-65.19	-52.57	8.5	7.2	9.3	25.0	152776	130233	167868			
12/13/2022	-51.74	-53.47	-42.71	0.0	0.0	0.0	0.0	155796	132803	171188	Power failure. System off for 20.5 hours		
12/14/2022	-57.39	-63.18	-50.65	8.7	7.4	9.5	25.6	167617	142953	183948			
12/15/2022	-58.94	-64.55	-52.10	8.5	7.3	9.4	25.2	179931	153514	197520			
12/16/2022	-54.00	-55.71	-45.10	0.0	0.0	0.0	0.0	187945	160386	206429			
12/17/2022	-49.21	-50.86	-40.22	0.0	0.0	0.0	0.0	187945	160386	206429	Power failure. System down for 3 days, 11 hours.		
12/18/2022	-46.40	-47.84	-37.26	0.0	0.0	0.0	0.0	187945	160386	206429			
12/19/2022	-44.41	-45.69	-35.18	0.0	0.0	0.0	0.0	187945	160386	206429			
12/20/2022	-51.28	-56.68	-44.47	8.1	7.1	9.2	24.4	198688	169856	218555			
12/21/2022	-53.30	-58.78	-46.60	7.8	6.9	9.0	23.7	210110	179876	231674			
12/22/2022	-55.01	-61.30	-48.68	8.0	7.5	9.8	25.3	221661	190537	245616			
12/23/2022	-55.25	-61.48	-49.04	8.0	7.5	9.8	25.3	233125	201253	259703			
12/24/2022	-49.11	-50.91	-40.17	0.0	0.0	0.0	0.0	237421	205262	264973			
12/25/2022	-45.70	-47.06	-36.43	0.0	0.0	0.0	0.0	237421	205262	264973	DSCVFD Alarm. System down 3 days, 18 hours.		
12/26/2022	-43.71	-44.77	-34.25	0.0	0.0	0.0	0.0	237421	205262	264973			
12/27/2022	-42.25	-43.17	-32.69	0.0	0.0	0.0	0.0	237421	205262	264973			
12/28/2022	-49.76	-54.29	-42.35	9.2	6.9	9.2	25.3	248423	214047	276414			
12/29/2022	-52.41	-56.90	-45.15	8.9	6.7	9.0	24.6	261486	223850	289504			
12/30/2022	-3.45	-44.45	-51.32	0.0	0.0	0.0	0.0	267464	228337	295558	Wet floor alarm. System down 2 days, 6 hours.		
12/31/2022	-3.45	-45.14	-51.32	0.0	0.0	0.0	0.0	267464	228337	295558			

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 2 - GWETS Data Logs - RSO Pilot Test Reporting Period

Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
1/1/2023	-3.45	-49.46	-51.32	0.0	0.0	0.0	0.0	267464	228337	295558			
1/2/2023	-41.15	-42.02	-31.66	0.0	0.0	0.0	0.0	267464	228337	295558	Wet floor alarm continued from December 2022. System down 2 days, 10 hours		
1/3/2023	-39.99	-40.92	-30.51	0.0	0.0	0.0	0.0	267464	228337	295558			
1/4/2023	-47.04	-52.19	-39.91	7.8	7.1	9.3	24.2	277218	237237	307004			
1/5/2023	-49.45	-54.80	-42.66	7.6	6.9	9.1	23.6	288294	247318	320241			
1/6/2023	-50.88	-56.31	-44.16	7.4	6.7	9.0	23.1	299098	257132	333287	January System Check		
1/7/2023											System did not send morning e-mail. No indication of shut down.		
1/8/2023	-52.59	-58.37	-46.24	7.3	6.6	8.9	22.8	320231	276299	359065			
1/9/2023	-53.05	-58.64	-46.45	7.2	6.5	8.9	22.6	330645	285741	371863			
1/10/2023	-53.75	-59.15	-47.12	7.1	6.5	8.8	22.4	340986	295127	384619			
1/11/2023	-54.33	-59.83	-47.85	7.1	6.4	8.8	22.3	351234	304432	397324			
1/12/2023	-54.88	-60.25	-48.26	7.0	6.4	8.8	22.2	361384	313666	409982			
1/13/2023	-54.61	-60.16	-48.16	7.0	6.4	8.8	22.2	370859	322873	422607			
1/14/2023	-47.22	-48.89	-38.25	0.0	0.0	0.0	0.0	371163	323150	422985			
1/15/2023	-44.44	-45.78	-35.24	0.0	0.0	0.0	0.0	371163	323150	422985	System down for XFRVFD power failure alarm 1/13 at 7:15am to 1/16 4:15pm (3 days, 9 hours)		
1/16/2023	-42.37	-43.58	-33.01	0.0	0.0	0.0	0.0	371163	323150	422985			
1/17/2023	-46.73	-51.73	-39.65	7.9	7.2	9.3	24.4	376286	327823	428990	January SVE well purge, data logger collection, system check.		
1/18/2023	-49.88	-55.16	-43.02	8.5	7.0	9.1	24.6	388606	337993	442194			
1/19/2023	-52.11	-57.13	-45.10	8.3	6.7	9.0	24.0	400691	347855	455190	January System Samples Collected / Flow slightly increased to compensate for drop.		
1/20/2023	-53.27	-58.92	-46.55	8.8	7.2	9.3	25.3	413256	358217	468551			
1/21/2023	-54.52	-60.20	-47.79	8.6	7.1	9.2	24.9	425772	368527	481886			
1/22/2023	-55.25	-61.03	-48.63	8.5	7.0	9.2	24.7	438108	378695	495143			
1/23/2023	-55.59	-61.12	-48.88	8.5	7.0	9.2	24.7	450337	388781	508346			
1/24/2023	-54.43	-60.06	-44.27	8.7	7.2	0.0	15.9	462635	398921	515920	ERT-1 pumping at low rate. Same day site visit rebooted and pumping normally.		
1/25/2023	-55.40	-61.12	-48.63	8.5	7.0	9.2	24.7	475019	409156	524315			
1/26/2023	-54.43	-59.93	-44.37	8.7	7.2	0.0	15.9	487248	419281	534991	ERT-1 pumping at low rate. Remote reboot performed.		
1/27/2023	-55.40	-61.16	-48.94	8.4	7.0	9.2	24.6	499611	429507	545003			
1/28/2023	-56.01	-61.85	-49.40	8.4	6.9	9.1	24.4	511755	439539	558168			
1/29/2023	-56.35	-61.99	-49.35	8.3	6.9	9.1	24.3	523808	449507	571304			
1/30/2023	-55.43	-60.80	-45.30	8.6	7.1	0.0	15.7	535899	459506	581086	ERT-1 pumping at low rate. Remote reboot performed.		
1/31/2023	-56.50	-62.03	-49.77	8.3	6.9	9.1	24.3	548013	469529	593320			

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Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
2/1/2023	-56.93	-62.44	-50.18	8.3	6.8	9.1	24.2	559981	479438	606424			
2/2/2023	-57.11	-62.49	-47.43	8.4	6.9	0.0	15.3	571884	489294	619226	ERT-1 low pump speed		
2/3/2023	-54.88	-59.97	-44.32	8.7	7.2	0.0	15.9	584200	499543	619226	ERT-1 Low pump speed, reset remotely		
2/4/2023	-56.29	-61.44	-49.66	8.4	7.0	9.2	24.6	596516	509824	625375			
2/5/2023	-57.36	-62.22	-50.34	8.2	6.9	9.1	24.2	608415	519771	638500			
2/6/2023	-58.06	-63.04	-51.27	8.1	6.8	9.0	23.9	620152	529599	651539	Site visit. ERT-1 pump pulled and electrical shorts repaired. System check performed. Flows bumped.		
2/7/2023	-59.25	-64.64	-52.31	7.9	7.2	9.8	24.9	631748	539900	663451			
2/8/2023	-59.80	-65.47	-53.19	7.8	7.2	9.8	24.8	643077	550257	677589			
2/9/2023	-54.18	-66.15	-54.18	7.7	7.0	9.7	24.4	654217	560457	691622			
2/10/2023	-61.14	-66.70	-54.64	7.6	7.0	9.6	24.2	665233	570547	705585			
2/11/2023	-62.21	-67.48	-55.42	7.5	6.9	9.6	24.0	676110	580523	719478			
2/12/2023	-62.48	-67.85	-55.84	7.4	6.8	9.6	23.8	686829	590375	733299			
2/13/2023	-62.73	-68.08	-56.05	7.4	6.8	9.5	23.7	697483	600166	747085			
2/14/2023	-63.09	-68.17	-53.04	7.4	6.9	0.0	14.3	708070	609906	760323	ERT-1 low pump speed. Rebooted remotely and is back on.		
2/15/2023	-61.66	-66.84	-51.01	7.7	7.1	0.0	14.8	718874	619852	764676			
2/16/2023	-61.20	-66.34	-50.55	7.7	7.1	0.0	14.8	729806	629909	769542			
2/17/2023	-60.10	-65.33	-49.71	7.9	7.2	0.0	15.1	741034	640226	769542			
2/18/2023	-59.95	-65.15	-49.30	7.9	7.3	0.0	15.2	752415	650672	769543			
2/19/2023	-59.61	-64.83	-48.94	7.9	7.3	0.0	15.2	763839	661149	769543			
2/20/2023	-58.94	-64.32	-48.47	8.1	7.4	0.0	15.5	775351	671700	769543			
2/21/2023	-58.85	-64.09	-48.26	8.1	7.4	0.0	15.5	786968	682335	769544			
2/22/2023	-59.00	-64.18	-48.26	8.1	7.4	0.0	15.5	798597	692977	769544	Site visit. System check/sample. SVE well purge/sample. Data logger download/well gauge.		
2/23/2023	-61.90	-70.73	-50.65	12.4	12.1	0.0	24.5	814984	708812	769544			
2/24/2023	-62.48	-71.92	-51.63	12.3	12.0	0.0	24.3	832731	726180	769544			
2/25/2023	-63.28	-72.61	-52.41	12.2	11.9	0.0	24.1	850388	743438	769544			
2/26/2023	-63.49	-72.93	-52.62	12.2	11.9	0.0	24.1	867984	760654	769544			
2/27/2023	-63.95	-73.25	-53.04	12.2	11.9	0.0	24.1	885534	777857	769544			
2/28/2023	-63.98	-73.39	-53.09	12.2	11.9	0.0	24.1	903034	795028	769544			

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	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
3/1/2023	-64.62	-73.98	-53.61	12.1	11.9	0.0	24.0	920477	812159	769544	System check. ERT-1 repair. Flow Adjustment.		
3/2/2023	-64.38	-71.37	-57.60	7.9	8.1	10.2	26.2	934285	825974	778634			
3/3/2023	-64.25	-71.92	-57.97	7.9	8.0	10.2	26.1	945692	837556	793333			
3/4/2023	-64.04	-71.42	-57.81	7.9	8.0	10.2	26.1	957095	849109	808026			
3/5/2023	-64.29	-71.83	-57.97	7.9	8.0	10.2	26.1	968513	860643	822720			
3/6/2023	-64.07	-71.65	-57.76	7.9	8.0	10.2	26.1	979942	872167	837412			
3/7/2023	-63.71	-71.33	-57.39	8.0	8.1	10.2	26.3	991455	883773	852152			
3/8/2023	-63.74	-71.19	-57.14	8.0	8.1	10.3	26.4	1003033	895418	866907			
3/9/2023	-63.55	-71.10	-57.14	8.1	8.1	10.3	26.5	1014628	907078	881695			
3/10/2023	-63.37	-70.92	-57.08	8.1	8.1	10.3	26.5	1026255	918760	896536			
3/11/2023	-63.00	-70.41	-56.67	8.1	8.1	10.3	26.5	1037943	930491	911422			
3/12/2023	-63.03	-70.64	-56.51	8.1	8.1	10.3	26.5	1049643	942232	926314			
3/13/2023	-63.00	-70.46	-56.56	8.2	8.2	10.4	26.8	1061369	953993	941223			
3/14/2023	-	-	-	-	-	-	-	-	-	-	System did not send status e-mail.		
3/15/2023	-52.35	-54.29	-42.81	0.0	0.0	0.0	0.0	1071157	963799	954023	System not pumping. Attempted remote reset. Well pumps operating, but discharge pump is not. Site visit reset the system to operating normally. Flows increased. System down approximately 36 hours.		
3/16/2023	-58.39	-64.51	-51.43	9.2	7.8	10.8	27.8	1081819	973845	967129			
3/17/2023	-59.40	-65.83	-52.78	9.3	7.8	11.0	28.1	1095314	985184	982924			
3/18/2023	-60.07	-66.47	-53.50	9.3	7.8	11.0	28.1	1108728	996443	998747			
3/19/2023	-60.56	-66.98	-53.97	9.1	7.6	10.9	27.6	1121995	1007563	1014533			
3/20/2023	-61.62	-67.53	-54.54	9.0	7.5	10.9	27.4	1135088	1018512	1030287			
3/21/2023	-62.03	-68.67	-55.27	9.5	8.0	11.1	28.6	1148672	1029932	1046265			
3/22/2023	-62.64	-69.08	-55.94	9.4	7.9	11.1	28.4	1162313	1041420	1062305			
3/23/2023	-63.00	-69.22	-56.36	9.4	7.9	11.1	28.4	1175868	1052846	1078345			
3/24/2023	-63.52	-70.00	-56.88	9.6	8.1	11.1	28.8	1189650	1064464	1094379			
3/25/2023	-64.19	-70.37	-57.45	9.5	8.0	11.0	28.5	1203385	1076028	1110357			
3/26/2023	-64.13	-70.64	-57.50	9.5	8.0	11.1	28.6	1217038	1087496	1126292			
3/27/2023	-64.32	-70.87	-57.65	9.4	7.9	11.1	28.4	1230720	1098969	1142253			
3/28/2023	-64.68	-71.14	-57.81	9.5	7.9	11.0	28.4	1244371	1110399	1158199	March System check, system sample, SVE well purge, and data logger download.		
3/29/2023 [3]	3.45	49.76	51.32	0.0	0.0	0.0	0.0	1248985	1114249	1164278	System down approximately 13 hours. Water temp sensor damaged (animal chewing) and created a short, combined with surge suppressor failure. The Pro controller requires repair; replaced with different unit and reactivated. Water level data is inaccurate for 3/29 & 3/30; Site visits made on 3/29 & 3/30 for repairs.		
3/30/2023 [3]	-121.55	-138.04	-161.18	9.3	7.4	11.0	27.7	1256475	1120243	1173055			
3/30/2023	-58.88	-64.46	-51.48	9.5	8.2	11.0	28.7	1256887	1120600	1173516			
3/31/2023	-61.05	-66.75	-53.87	9.2	7.8	11.0	28.0	1265958	1128326	1184183			

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	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
4/1/2023	-61.84	-67.53	-54.96	9.1	7.8	11.0	27.9	1279171	1139512	1199983			
4/2/2023	-62.79	-69.18	-55.94	9.6	8.1	10.9	28.6	1293035	1151283	1215792			
4/3/2023	-63.67	-69.82	-56.88	9.4	7.9	10.9	28.2	1306700	1162852	1231483			
4/4/2023	-64.47	-70.27	-57.55	9.6	7.9	11.1	28.6	1320559	1174334	1247353			
4/5/2023	-65.26	-71.42	-58.23	9.6	8.1	11.1	28.8	1334517	1186070	1263387			
4/6/2023	-65.54	-71.79	-58.74	9.5	8.0	11.0	28.5	1348194	1197635	1279256			
4/7/2023	-66.18	-72.43	-59.31	9.4	7.9	11.0	28.3	1361860	1209167	1295183			
4/8/2023	-66.73	-72.93	-59.78	9.2	7.8	11.0	28.0	1375313	1220511	1311017			
4/9/2023	-67.28	-73.30	-60.25	9.1	7.7	10.9	27.7	1388617	1231726	1326809			
4/10/2023	-67.76	-73.75	-60.82	9.1	7.6	11.0	27.7	1401824	1242855	1342598			
4/11/2023	-68.53	-74.62	-61.55	9.6	7.9	11.0	28.5	1415525	1254186	1358463			
4/12/2023	-	-	-	-	-	-	-	-	-	-	System did not transmit update - no system issues.		
4/13/2023	-69.84	-75.40	-63.31	9.5	7.5	12.1	29.1	1442980	1276401	1390846			
4/14/2023	-70.57	-76.04	-63.99	9.4	7.4	12.1	28.9	1456731	1287240	1408352			
4/15/2023	-71.24	-76.78	-64.71	9.4	7.4	12.1	28.9	1470375	1297943	1425877			
4/16/2023	-71.86	-77.14	-65.23	9.3	7.2	12.1	28.6	1483838	1308427	1443388			
4/17/2023	-72.34	-77.55	-65.85	9.2	7.1	12.1	28.4	1497135	1318745	1460841			
4/18/2023	-73.26	-78.93	-66.94	9.3	7.5	12.4	29.2	1510608	1329596	1478720	April system check/sample, SVE purge, and data logger download. Repaired pro-controller reinstalled. Water temp sensor replaced.		
4/19/2023	-73.90	-79.62	-67.31	9.3	7.2	12.6	29.1	1523824	1340132	1496640			
4/20/2023	-74.69	-80.07	-68.40	9.2	7.1	12.7	29.0	1537131	1350474	1514873			
4/21/2023	-75.27	-80.71	-69.02	9.1	7.1	12.7	28.9	1550364	1360721	1533130			
4/22/2023	-76.01	-81.45	-69.64	9.0	7.0	12.7	28.7	1563560	1370904	1551471			
4/23/2023	-76.04	-81.72	-69.90	9.0	6.9	12.7	28.6	1576550	1380892	1569708			
4/24/2023	-	-	-	-	-	-	-	-	-	-	System did not transmit update - no system issues.		
4/25/2023	-75.03	-82.09	-69.12	9.6	7.4	12.5	29.5	1603157	1401393	1605914			
4/26/2023	-74.76	-81.68	-68.81	9.6	7.4	12.5	29.5	1617050	1412146	1623925			
4/27/2023	-74.54	-81.45	-68.55	9.7	7.6	12.5	29.8	1631010	1422989	1641974			
4/28/2023	-74.14	-81.17	-68.14	9.7	7.6	12.6	29.9	1645038	1433905	1660055			
4/29/2023	-73.56	-80.49	-67.51	9.5	7.4	12.6	29.5	1658828	1444588	1678192			
4/30/2023	-72.86	-79.71	-67.10	9.7	7.5	12.6	29.8	1672646	1455292	1696375			

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	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
5/1/2023	-72.07	-79.11	-66.01	9.8	7.6	12.7	30.1	1686647	1466152	1714647			
5/2/2023	-71.24	-78.20	-65.13	9.6	7.4	12.6	29.6	1700423	1476802	1732751			
5/3/2023	-70.94	-77.83	-64.71	9.6	7.4	12.6	29.6	1714279	1487540	1750895			
5/4/2023	-70.48	-77.51	-64.30	9.4	7.5	12.5	29.4	1727983	1498357	1768926			
5/5/2023	-70.30	-77.28	-64.09	9.4	7.6	12.5	29.5	1741553	1509241	1786872			
5/6/2023	-70.02	-77.05	-63.78	9.5	7.6	12.5	29.6	1755231	1520216	1804865			
5/7/2023	-69.72	-76.59	-63.52	9.5	7.6	12.5	29.6	1769022	1531290	1822957			
5/8/2023	-69.63	-76.46	-63.36	9.6	7.7	12.5	29.8	1782832	1542414	1841023			
5/9/2023	-69.78	-76.18	-63.26	9.5	7.4	12.5	29.4	1796621	1553243	1859097			
5/10/2023	-70.12	-76.36	-63.52	9.5	7.4	12.5	29.4	1810276	1563925	1877079			
5/11/2023	-70.51	-76.55	-63.73	9.4	7.4	12.5	29.3	1823980	1574668	1895159			
5/12/2023	-70.94	-76.73	-64.09	9.4	7.4	12.5	29.3	1837562	1585327	1913112			
5/13/2023	-71.31	-76.87	-64.50	9.4	7.3	12.5	29.2	1851211	1596044	1931186			
5/14/2023	-71.79	-77.37	-64.97	9.3	7.3	12.4	29.0	1864685	1606599	1949094			
5/15/2023	-72.22	-77.69	-65.49	9.2	7.2	12.4	28.8	1878081	1617056	1967003			
5/16/2023	-72.56	-77.78	-65.59	9.2	7.2	12.4	28.8	1891425	1627472	1984888			
5/17/2023	-73.14	-78.29	-66.11	9.5	7.1	12.5	29.1	1904883	1637810	2002698			
5/18/2023	-74.02	-79.11	-67.00	9.3	7.2	12.4	28.9	1918401	1648320	2020616			
5/19/2023	-74.66	-79.98	-67.62	9.2	7.1	12.4	28.7	1931821	1658751	2038548			
5/20/2023	-75.34	-80.53	-68.40	9.1	7.1	12.4	28.6	1945035	1669004	2056339			
5/21/2023	-75.95	-81.13	-69.02	9.1	7.0	12.3	28.4	1958171	1679170	2074142			
5/22/2023	-76.59	-81.77	-69.64	9.0	6.9	12.3	28.2	1971189	1689203	2091910			
5/23/2023	-77.29	-82.50	-70.32	8.9	6.8	12.3	28.0	1984101	1699093	2109697			
5/24/2023	-78.30	-84.06	-71.35	9.3	7.5	12.5	29.3	1997300	1709443	2127589			
5/25/2023	-72.98	-73.85	-62.53	0.0	0.0	0.0	0.0	2007110	1717280	2140724	System down for 6 hours due to power failure		
5/26/2023	-77.99	-83.14	-71.20	9.1	6.9	12.5	28.5	2019187	1726606	2157042			
5/27/2023	-79.21	-84.29	-72.18	8.9	6.8	12.4	28.1	2032146	1736537	2175001			
5/28/2023	-79.91	-84.93	-72.96	8.8	6.7	12.4	27.9	2044942	1746313	2192939			
5/29/2023	-80.71	-85.52	-73.79	8.7	6.6	12.4	27.7	2057614	1755983	2210860			
5/30/2023	-81.38	-86.21	-74.47	8.6	6.5	12.4	27.5	2070121	1765502	2228722			
5/31/2023	-82.69	-88.04	-75.66	9.3	7.2	12.5	29.0	2083454	1775795	2246709			

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Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
6/1/2023	-83.58	-88.73	-76.28	9.2	7.1	12.5	28.8	2096828	1786143	2264685			
6/2/2023	-84.37	-89.51	-77.11	9.1	7.0	12.4	28.5	2110064	1796358	2282626			
6/3/2023	-85.01	-90.19	-77.84	9.0	6.9	12.4	28.3	2123184	1806429	2300532			
6/4/2023	-85.71	-90.74	-78.46	8.9	6.7	12.3	27.9	2136088	1816255	2318345			
6/5/2023	-86.32	-91.38	-78.93	8.8	6.6	12.3	27.7	2148852	1825924	2336125			
6/6/2023	-86.81	-92.16	-79.55	8.8	6.9	12.2	27.9	2160875	1835699	2353409			
6/7/2023	-87.55	-92.80	-80.28	8.6	6.8	12.3	27.7	2173443	1845580	2371155			
6/8/2023	-80.46	-81.40	-69.95	0.0	0.0	0.0	0.0	2180442	1851055	2381157	System down due to insufficient air pressure in stripper…possibly due to wells approaching target		
6/9/2023	-77.72	-78.29	-66.89	0.0	0.0	0.0	0.0	2184300	1854028	2386379	System down due to insufficient air pressure in stripper…possibly due to wells approaching target		
6/10/2023	-85.16	-90.01	-77.58	9.0	6.8	12.4	28.2	2197249	1863979	2403862			
6/11/2023	-86.81	-91.47	-79.29	8.8	6.6	12.3	27.7	2210081	1873723	2421661			
6/12/2023	-88.06	-88.06	-80.44	8.7	6.5	12.3	27.5	2222673	1883231	2439442			
6/13/2023	-89.01	-93.53	-81.37	8.5	6.3	12.3	27.1	2235098	1892498	2457229			
6/14/2023	-89.62	-93.76	-81.89	8.4	6.2	12.3	26.9	2247331	1901551	2474986			
6/15/2023	-90.51	-94.27	-82.56	8.3	6.1	12.3	26.7	2259376	1910409	2492720			
6/16/2023	-91.06	-94.91	-83.03	8.2	6.1	12.3	26.6	2271288	1919183	2510436			
6/17/2023	-91.51	-95.37	-83.60	8.1	5.9	12.3	26.3	2283031	1927829	2528120			
6/18/2023	-92.18	-95.82	-84.07	8.0	5.9	12.2	26.1	2294644	1936364	2545778			
6/19/2023	-92.80	-96.19	-84.53	7.9	5.8	12.2	25.9	2306151	1944829	2563410			
6/20/2023	-93.28	-96.65	-85.00	7.8	5.7	12.2	25.7	2317544	1953219	2581032			
6/21/2023	-87.39	-96.05	-83.89	0.0	6.0	12.4	18.4	2319401	1961741	2598795	MW-5R not pumping due to static level reached.		
6/22/2023	-86.60	-95.64	-82.87	0.0	6.1	12.4	18.5	2319401	1970463	2616703	MW-5R not pumping due to static level reached.		
6/23/2023	-86.78	-95.32	-82.46	0.0	6.1	12.5	18.6	2319401	1979271	2634653	MW-5R not pumping due to static level reached.		
6/24/2023	-93.31	-98.57	-85.36	8.1	7.2	12.4	27.7	2330982	1989765	2652641			
6/25/2023	-87.48	-98.20	-83.86	0.0	7.3	12.6	19.9	2331356	2000334	2670730	MW-5R not pumping due to static level reached.		
6/26/2023	-87.18	-98.02	-83.60	0.0	7.3	12.6	19.9	2331356	2010964	2688910	MW-5R not pumping due to static level reached.		
6/27/2023	-82.75	-84.42	-72.65	0.0	0.0	0.0	0.0	2331357	2014985	2695843	System not running for 6 hours due to low flow alarm		
6/28/2023	-89.53	-95.92	-82.30	8.7	7.2	12.4	28.3	2342642	2024451	2711773			
6/29/2023	-90.38	-96.46	-83.39	8.6	7.1	12.4	28.1	2355104	2034827	2729612			
6/30/2023	-91.06	-96.83	-83.60	8.5	7.1	12.3	27.9	2367457	2045115	2747416			

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Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
7/1/2023	-91.94	-97.11	-83.96	8.4	7.1	12.3	27.8	2379691	2055361	2765206			
7/2/2023	-92.15	-97.24	-84.02	8.4	7.0	12.4	27.8	2391816	2065548	2783022			
7/3/2023	-90.78	-87.81	-82.36	8.7	0.0	12.5	21.2	2404045	2069437	2800955			
7/4/2023	-89.80	-96.24	-82.77	8.7	7.2	12.5	28.4	2416546	2079140	2818921			
7/5/2023	-89.07	-95.92	-82.51	8.8	7.2	12.5	28.5	2429193	2089602	2836890			
7/6/2023	-88.80	-95.78	-82.15	8.9	7.3	12.5	28.7	2441953	2100151	2854910			
7/7/2023	-88.80	-95.55	-82.04	8.8	7.3	12.5	28.6	2454734	2110758	2872959			
7/8/2023	-88.83	-95.73	-81.84	9.5	7.6	12.5	29.6	2468178	2121678	2891001			
7/9/2023	-88.22	-95.41	-81.58	9.5	7.6	12.5	29.6	2481872	2132688	2909060			
7/10/2023	-77.99	-89.83	-69.59	0.0	7.8	0.0	7.8	2485862	2144069	2914316	MW-5R and ERT-1 were affected by a weather event causing analog outputs malfunction resulting		
7/11/2023	-73.08	-86.21	-64.97	0.0	8.4	0.0	8.4	2485862	2155864	2914316			
7/12/2023	-78.60	-86.30	-72.76	9.2	7.2	12.5	28.9	2496599	2166229	2929628			
7/13/2023	-79.27	-86.57	-73.17	9.1	7.1	12.5	28.7	2509772	2176594	2947697			
7/14/2023	-75.46	-86.30	-72.18	0.0	7.5	12.7	20.2	2518467	2187070	2965851	MW-5R was affected by the same event from 7/10/22 (was repaired back to operating state).		
7/15/2023	-78.20	-85.59	-72.13	9.2	7.4	12.5	29.1	2525439	2197806	2984074			
7/16/2023	-79.00	-86.07	-72.70	9.1	7.3	12.5	28.9	2538627	2208450	3002108			
7/17/2023	-78.63	-85.93	-72.50	9.2	7.3	12.4	28.9	2551812	2219037	3020122			
7/18/2023	-78.20	-85.61	-72.29	9.2	7.4	12.5	29.1	2565072	2229679	3038173			
7/19/2023	-78.08	-85.48	-72.08	9.2	7.4	12.5	29.1	2578348	2240365	3056521			
7/20/2023	-78.20	-85.43	-71.92	9.2	7.4	12.5	29.1	2591616	2251077	3074346			
7/21/2023	-78.45	-85.34	-72.08	9.2	7.5	12.6	29.3	2604851	2261823	3092454			
7/22/2023	-78.75	-85.43	-72.18	9.1	7.4	12.5	29.0	2618044	2272568	3110559			
7/23/2023	-79.36	-85.70	-72.50	9.0	7.3	12.5	28.8	2631136	2283248	3129639			
7/24/2023	-72.71	-73.75	-62.22	0.0	0.0	0.0	0.0	2639551	2290119	3140318	Transfer VFD MOM power failure caused system to shutdown, repaired same day (down for ~ 11		
7/25/2023	-78.11	-84.33	-71.09	9.2	7.6	12.6	29.4	2651434	2299959	3156339			
7/26/2023	-74.85	-71.92	-61.08	9.8	0.0	0.0	9.8	2665101	2303880	3162835	MW-7R and ERT-1 had their analog output affected by weather causing 0 flow, repaired same day.		
7/27/2023	-76.62	-81.68	-69.43	9.4	6.8	12.4	28.6	2978767	2311902	3177280			
7/28/2023	-77.41	-82.59	-70.52	9.3	6.7	12.5	28.5	2692234	2321634	3495317			
7/29/2023	-77.90	-83.00	-70.99	9.2	6.6	12.5	28.3	2705596	2331195	3213320			
7/30/2023	-78.14	-83.46	-71.20	9.2	6.5	12.5	28.2	2718876	2340660	3231295			
7/31/2023	-78.39	-83.64	-71.56	9.2	6.5	12.5	28.2	2732094	2350050	3249279			

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	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
8/1/2023	-78.75	-83.97	-71.87	9.1	6.4	12.5	28.0	2745256	2359370	3267267			
8/2/2023	-79.18	-84.24	-72.29	9.0	6.4	12.5	27.9	2758322	2368611	3285234			
8/3/2023	-79.55	-84.56	-72.70	9.0	6.4	12.5	27.9	2771356	2377816	3303268			
8/4/2023	-79.88	-84.74	-73.12	9.0	6.3	12.5	27.8	2784232	2386891	3321147			
8/5/2023	-80.34	-85.29	-73.38	8.9	6.2	12.4	27.5	2797077	2395917	3339059			
8/6/2023	-80.92	-85.66	-73.84	8.8	6.2	12.4	27.4	2809826	2404856	3356923			
8/7/2023	-81.29	-85.84	-74.05	8.8	6.1	12.4	27.3	2822486	2413695	3374752			
8/8/2023	-80.92	-85.84	-74.16	8.8	6.1	12.4	27.3	2835154	2422492	3392572			
8/9/2023	-81.35	-85.98	-74.52	8.8	6.0	12.3	27.1	2847790	2431246	3410387			
8/10/2023	-81.53	-86.25	-74.62	8.7	6.0	12.4	27.1	2860371	2439958	3428209			
8/11/2023	-81.84	-86.30	-74.73	8.7	6.0	12.4	27.1	2872903	2448641	3446028			
8/12/2023	-82.02	-86.57	-75.09	8.6	6.0	12.3	26.9	2885369	2457256	3463822			
8/13/2023	-74.30	-75.49	-63.88	0.0	0.0	0.0	0.0	2891884	2461748	3473197	Power shut down due to weather, restarted. Off for 14 hours.		
8/14/2023	-78.42	-84.01	-71.92	9.2	6.4	12.4	28.0	2902183	2469027	3486942			
8/15/2023	-79.27	-84.47	-72.55	9.1	6.3	12.4	27.8	2915312	2478210	3504821			
8/16/2023	-78.88	-84.47	-72.55	9.1	6.4	12.4	27.9	2928432	2487325	3522678			
8/17/2023	-78.54	-84.29	-72.13	9.2	6.4	12.5	28.1	2941627	2496478	3540596			
8/18/2023	-77.96	-83.87	-71.61	9.2	6.4	12.5	28.1	2954899	2505713	3558553			
8/19/2023	-77.44	-83.60	-71.25	9.3	6.5	12.5	28.3	2968265	2515038	3576564			
8/20/2023	-77.23	-83.23	-70.94	9.3	6.6	12.5	28.4	2981709	2524453	3594636			
8/21/2023	-77.11	-82.96	-70.89	9.3	6.6	12.6	28.5	2995166	2533939	3612735			
8/22/2023	-77.35	-82.87	-70.78	9.3	6.6	12.6	28.5	3008615	2543470	3630843			
8/23/2023	-77.59	-82.96	-70.84	9.3	6.6	12.6	28.5	3022020	2553005	3648960			
8/24/2023	-77.75	-82.96	-70.94	9.3	6.6	12.6	28.5	3035372	2562531	3667107			
8/25/2023	-78.05	-83.00	-71.04	9.2	6.6	12.6	28.4	3048682	2572037	3685246			
8/26/2023	-78.08	-83.14	-71.25	9.2	6.6	12.6	28.4	3061970	2581518	3703384			
8/27/2023	-78.45	-83.37	-71.51	9.2	6.5	12.6	28.3	3075261	2591002	3721569			
8/28/2023	-78.78	-83.64	-71.92	9.1	6.5	12.6	28.2	3088402	2600381	3739619			
8/29/2023	-79.12	-83.74	-72.03	9.1	6.5	12.6	28.2	3101509	2609728	3757725			
8/30/2023	-79.33	-83.87	-72.29	9.0	6.4	12.6	28.0	2114535	2619021	3775846			
8/31/2023	-79.79	-84.47	-72.70	9.0	6.4	12.6	28.0	3127517	2628253	3793988			

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	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
9/1/2023	-80.37	-84.88	-73.33	8.9	6.3	12.6	27.8	3140424	2637370	3812091			
9/2/2023	-80.68	-85.20	-73.53	8.9	6.2	12.5	27.6	3153283	2646413	3830235			
9/3/2023	-81.10	-85.43	-74.00	8.8	6.1	12.5	27.4	3165988	2655313	3848228			
9/4/2023	-81.53	-85.89	-74.57	8.8	6.1	12.5	27.4	3178697	2664155	3866326			
9/5/2023	-82.08	-86.35	-75.04	8.7	6.0	12.5	27.2	3191201	2672834	3884258			
9/6/2023	-82.51	-86.71	-75.40	8.6	5.9	12.4	26.9	3203626	2681409	3902196			
9/7/2023	-83.03	-87.08	-76.08	8.5	5.9	12.4	26.8	3215952	2689888	3920097			
9/8/2023	-76.01	76.64	-65.28	0.0	0.0	0.0	0.0	3222514	2694394	3929688	System down due to storm. The transfer drive was physically tripped due to electrical issue. System down approximately 3 days, 2 hours.		
9/9/2023	-70.57	-71.92	-60.25	0.0	0.0	0.0	0.0	3222663	2694508	3929884			
9/10/2023	-67.18	-68.21	-56.67	0.0	0.0	0.0	0.0	3222663	2694508	3929884			
9/11/2023	-64.53	-67.16	-55.47	10.4	8.9	13.1	32.4	3223123	2694890	3930458			
9/12/2023	-70.76	-76.82	-64.24	8.1	7.6	12.9	28.6	3230932	2702210	3942568			
9/13/2023	-72.89	-78.93	-66.42	7.9	7.3	12.8	28.0	3242489	2712940	3961166			
9/14/2023	-74.11	-80.07	-67.67	7.8	7.1	12.7	27.6	3253745	2723258	3979497			
9/15/2023	-75.03	-81.03	-68.71	7.7	7.0	12.7	27.4	3264938	2733408	3997870			
9/16/2023	-75.40	-81.58	-69.17	7.6	6.9	12.7	27.2	3275923	2743313	4016056			
9/17/2023	-75.98	-82.13	-69.95	7.6	6.8	12.6	27.0	3286852	2753134	4034258			
9/18/2023	-	-	-	-	-	-		-	-	-			
9/19/2023	-	-	-	-	-	-		-	-	-	System running, but no automated e-mail sent/received.		
9/20/2023	-	-	-	-	-	-		-	-	-			
9/21/2023	-76.65	-83.09	-70.73	7.5	6.6	12.5	26.6	3330103	2791395	4106390			
9/22/2023	-78.11	-84.65	-71.56	9.4	7.4	12.5	29.3	3342608	2801598	4124359			
9/23/2023	-78.88	-85.16	-72.18	9.4	7.3	12.5	29.2	3356133	2812162	4142385			
9/24/2023	-79.27	-85.43	-72.70	9.3	7.2	12.5	29.0	3369593	2822629	4160433			
9/25/2023	-79.24	-85.80	-72.96	9.3	7.2	12.5	29.0	3383016	2833014	4178477			
9/26/2023	-78.60	-85.66	-72.65	9.4	7.2	12.5	29.1	3396500	2843379	4196524			
9/27/2023	-78.17	-85.25	-72.24	9.4	7.3	12.6	29.3	3410055	2853802	4214634			
9/28/2023	-77.75	-84.88	-71.82	9.4	7.3	12.6	29.3	3423666	2864299	4232831			
9/29/2023	-77.44	-84.42	-71.61	9.5	7.4	12.7	29.6	3437313	2874872	4251062			
9/30/2023	-77.08	-84.29	-71.09	9.5	7.4	12.7	29.6	3451172	2885657	4269557			

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Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
10/1/2023	-76.65	-83.83	-70.73	9.6	7.5	12.7	29.8	3464725	2896223	4287606			
10/2/2023	-76.31	-83.51	-70.32	9.5	7.5	12.7	29.7	3478499	2907001	4305926			
10/3/2023	-68.99	-71.24	-59.31	0.0	0.0	0.0	0.0	3487705	2914232	4318181	Wet floor sensor alarm. Sensor was fouled a bit - replaced sensor. System down 16 hours.		
10/4/2023	-72.56	-79.75	-66.22	9.9	8.1	12.9	30.9	3496560	2921548	4329718			
10/5/2023	-63.22	-64.69	-52.88	0.0	0.0	0.0	0.0	3498500	2923129	4332261	System down due to utility power fail. Down approximately 24 hours.		
10/6/2023	-70.21	-76.96	-63.52	10.1	8.4	13.1	31.6	3510987	2933693	4348337			
10/7/2023	-71.86	-78.38	-65.13	10.0	8.2	13.1	31.3	3525395	2945655	4367155			
10/8/2023	-72.16	-79.20	-65.80	9.9	8.1	13.1	31.1	3539776	2957462	4386037			
10/9/2023	-72.44	-79.57	-66.32	9.9	8.1	13.1	31.1	3553959	2969007	4404718			
10/10/2023	-72.47	-79.80	-66.48	9.9	8.0	13.1	31.0	3568239	2980579	4423539			
10/11/2023	-73.02	-80.03	-66.89	9.9	8.0	13.0	30.9	3582476	2992101	4442343			
10/12/2023	-73.29	-80.35	-67.36	9.8	7.9	13.1	30.8	3596659	3003545	4461134			
10/13/2023	-73.93	-80.58	-67.62	9.8	7.9	13.1	30.8	3610790	3014932	4479953			
10/14/2023	-75.34	-81.08	-68.29	9.7	7.8	13.0	30.5	3624817	3026234	4498738			
10/15/2023	-75.24	-81.31	-68.60	9.7	7.8	13.0	30.5	3638741	3037443	4517470			
10/16/2023	-75.55	-81.63	-69.02	9.6	7.7	13.0	30.3	3652649	3048594	4536183			
10/17/2023	-76.13	-82.13	-69.49	9.6	7.6	13.0	30.2	3666507	3059654	4554859			
10/18/2023	-76.53	-82.59	-69.75	9.6	7.6	12.7	29.9	3680253	3070596	4573150			
10/19/2023	-	-	-	-	-	-		-	-	-	System did not transmit update, no issues.		
10/20/2023	-77.08	-83.46	-70.37	9.5	7.5	12.7	29.7	3707732	3092349	4609736			
10/21/2023	-77.26	-83.51	-70.89	9.5	7.5	12.7	29.7	3721475	3103181	4628152			
10/22/2023	-	-	-	-	-	-		-	-	-	System did not transmit update, no issues.		
10/23/2023	-78.08	-84.19	-71.51	9.5	7.3	12.7	29.5	3748763	3124508	4664746			
10/24/2023	-78.36	-84.42	-71.82	9.4	7.3	12.7	29.4	3762355	3135054	4683106			
10/25/2023	-78.48	-84.61	-71.98	9.4	7.3	12.7	29.4	3775976	3145585	4701520			
10/26/2023	-78.69	-84.74	-72.29	9.4	7.2	12.7	29.3	3789485	3156004	4719797			
10/27/2023	-78.94	-84.93	-72.39	9.4	7.2	12.7	29.3	3803012	3166422	4738131			
10/28/2023	-79.03	-85.11	-72.70	9.4	7.2	12.7	29.3	3816516	3176788	4756455			
10/29/2023	-79.64	-85.48	-72.96	9.3	7.1	12.7	29.1	3829975	3187082	4774756			
10/30/2023	-78.91	-85.38	-72.86	9.4	7.1	12.7	29.2	3843477	3197375	4793107			
10/31/2023	-78.42	-85.20	-72.39	9.4	7.2	12.7	29.3	3856981	3207644	4811367			

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Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
11/1/2023	-77.81	-84.74	-71.98	9.5	7.2	12.8	29.5	3870608	3218034	4829731			
11/2/2023	-	-	-	-	-	-		-	-	-	System did not transmit, no issues.		
11/3/2023	-76.98	-84.10	-71.30	9.6	7.3	12.8	29.7	3898016	3239039	4866604			
11/4/2023	-76.92	-83.60	-70.94	9.5	7.4	12.8	29.7	3911761	3249652	4885090			
11/5/2023	-76.59	-83.32	-70.63	9.6	7.4	12.9	29.9	3925516	3260329	4903601			
11/6/2023	-76.95	-83.37	-70.78	9.5	7.4	12.9	29.8	3939276	3271035	4922115			
11/7/2023	-76.68	-83.19	-70.37	9.6	7.4	12.9	29.9	3953039	3281750	4940646			
11/8/2023	-77.08	-83.51	-70.73	9.5	7.4	12.9	29.8	3966797	3292461	4959177			
11/9/2023	-77.17	-83.55	-70.84	9.5	7.4	12.8	29.7	3980527	3303115	4977669			
11/10/2023	-77.50	-83.78	-71.15	9.5	7.4	12.8	29.7	3994243	3313730	4996154			
11/11/2023	-78.02	-84.01	-71.30	9.5	7.3	12.9	29.7	4007920	3324271	5014674			
11/12/2023	-78.11	-84.42	-71.87	9.4	7.3	12.8	29.5	4021530	3334741	5033196			
11/13/2023	-78.72	-84.56	-72.03	9.4	7.2	12.8	29.4	4035099	3345160	5051696			
11/14/2023	-78.91	-84.93	-72.29	9.4	7.2	12.8	29.4	4049203	3355971	5070952			
11/15/2023	-79.39	-85.34	-72.70	9.3	7.1	12.8	29.2	4062687	3366266	5089434			
11/16/2023	-79.73	-85.43	-73.07	9.3	7.1	12.8	29.2	4076134	3376511	5107917			
11/17/2023	-79.82	-85.70	-73.17	9.3	7.1	12.8	29.2	4089547	3386698	5126386			
11/18/2023	-80.10	-86.07	-73.59	9.3	7.0	12.8	29.1	4102925	3396841	5144860			
11/19/2023	-80.80	-86.30	-73.90	9.2	7.0	12.8	29.0	4116247	3406908	5163346			
11/20/2023	-81.07	-86.76	-74.52	9.2	6.9	12.8	28.9	4129513	3416891	5181784			
11/21/2023	-81.62	-87.12	-75.04	9.1	6.8	12.7	28.6	4142706	3426783	5200165			
11/22/2023	-81.65	-87.12	-75.04	9.2	6.8	12.7	28.7	4155872	3436612	5218523			
11/23/2023	-80.95	-87.12	-74.62	9.2	6.8	12.7	28.7	4169111	3446449	5236888			
11/24/2023	-80.71	-87.03	-74.57	9.2	6.8	12.7	28.7	4182378	3456301	5255262			
11/25/2023	-80.86	-86.90	-74.73	9.2	6.9	12.8	28.9	4195660	3466176	5273642			
11/26/2023	-80.52	-86.76	-74.26	9.2	6.9	12.8	28.9	4208953	3476085	5292032			
11/27/2023	-80.10	-86.39	-73.79	9.3	6.9	12.8	29.0	4222278	3486050	5310457			
11/28/2023	-79.33	-86.07	-73.48	9.3	7.0	12.8	29.1	4235691	3496074	5328924			
11/29/2023	-79.03	-85.98	-72.96	9.4	7.0	12.8	29.2	4249167	3506175	5347430			
11/30/2023	-78.94	-85.52	-72.65	9.4	7.1	12.9	29.4	4262670	3516347	5365959			

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Date	Recovery Well Water Levels (Feet)[1]			Pump Speeds (Gallons Per Minute, GPM)				Volume of Water Pumped from Each Well (Totalizer in Gallons)[2]			System Downtime and/or Modifications Notes		
	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
12/1/2023	-78.78	-85.25	-72.65	9.4	7.1	12.9	29.4	4276200	3526568	5384506			
12/2/2023	-78.66	-85.06	-72.55	9.4	7.1	12.9	29.4	4289741	3536829	5403066			
12/3/2023	-78.51	-85.02	-72.34	9.4	7.2	12.9	29.5	4303297	3547109	5421620			
12/4/2023	-77.99	-84.70	-71.98	9.5	7.2	12.9	29.6	4316900	3557427	5440189			
12/5/2023	-77.44	-84.38	-71.61	9.5	7.2	12.9	29.6	4330619	3567862	5458854			
12/6/2023	-76.92	-83.97	-71.04	9.6	7.3	12.9	29.8	4344299	3578292	5477417			
12/7/2023	-76.62	-83.78	-70.99	9.6	7.3	13.0	29.9	4358073	3588841	5496078			
12/8/2023	-76.56	-83.55	-70.68	9.6	7.4	13.0	30.0	4371864	3599441	5514700			
12/9/2023	-76.62	-83.64	-70.58	9.6	7.4	13.0	30.0	4385657	3610074	5533381			
12/10/2023	-76.56	-83.23	-70.37	9.6	7.4	13.0	30.0	4399458	3620721	5552060			
12/11/2023	-75.98	-83.00	-70.11	9.6	7.4	13.0	30.0	4413288	3631408	5570748			
12/12/2023	-75.64	-82.91	-69.80	9.7	7.5	13.0	30.2	4427189	3642129	5589454			
12/13/2023	-75.03	-82.45	-69.33	9.7	7.5	13.0	30.2	4441136	3652924	5608183			
12/14/2023	-75.00	-82.27	-69.12	9.7	7.6	13.0	30.3	4455127	3663799	5626934			
12/15/2023	-68.53	-79.25	-59.57	0.0	8.2	0.0	8.2	4465277	3674928	5640525	MW-5R & ERT-1 not pumping approximately 8 hours, but system running. Well rebooted remotely.		
12/16/2023	-72.68	-79.84	-66.22	9.9	7.9	12.9	30.7	4476137	3686441	5654543			
12/17/2023	-73.08	-80.07	-66.79	9.9	7.9	12.8	30.6	4490415	3697775	5673062			
12/18/2023	-67.67	-69.82	-57.86	0.0	0.0	0.0	0.0	4502985	3707772	5689380	Power outage due to storm. Circuit breaker and VFD tripped. Reset in person. Offline approx. 12		
12/19/2023	-	-	-	-	-	-		-	-	-	System did not send e-mail, but is running.		
12/20/2023	-71.21	-78.52	-64.97	10.0	8.1	12.9	31.0	4534061	3730507	5725449			
12/21/2023	-71.00	-78.56	-64.82	9.5	8.1	12.9	30.5	4542113	3739825	5740324			
12/22/2023	-69.38	-76.23	-62.58	8.1	7.3	11.0	26.4	4553788	3750095	5756004			
12/23/2023	-68.99	-75.81	-62.01	8.1	7.4	11.0	26.5	4565460	3760712	5771837			
12/24/2023	-68.59	-75.40	-61.70	8.2	7.5	11.0	26.7	4577185	3771403	5787722			
12/25/2023	-68.41	-75.13	-61.44	8.2	7.5	11.1	26.8	4588953	3782139	5803649			
12/26/2023	-68.53	-74.90	-61.39	8.1	7.5	11.1	26.7	4600731	3792896	5819618			
12/27/2023	-68.25	-74.72	-61.13	8.2	7.5	11.1	26.8	4612545	3803701	5835603			
12/28/2023	-67.89	-74.62	-60.87	8.3	7.6	11.1	27.0	4624405	3814530	5851615			
12/29/2023	-67.70	-74.03	-61.44	8.7	7.1	12.3	28.1	4636446	3824619	5868427			
12/30/2023	-67.55	-73.94	-61.29	8.7	7.1	12.3	28.1	4648943	3834894	5886131			
12/31/2023	-67.73	-73.94	-61.23	8.7	7.1	12.3	28.1	4661475	3845195	5903886			

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	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
1/1/2024	-67.64	-74.21	-61.13	8.7	7.1	12.3	28.1	4673903	3855400	5921492			
1/2/2024	-67.58	-74.21	-61.29	8.6	7.1	12.2	27.9	4686361	3865634	5939157			
1/3/2024	-68.59	-75.40	-62.12	9.9	7.7	12.7	30.3	4699686	3876320	5957151			
1/4/2024	-69.29	-75.59	-62.79	9.8	7.7	12.7	30.2	4713909	3887399	5975472			
1/5/2024	-70.08	-76.18	-63.15	9.8	7.6	12.7	30.1	4728061	3898390	5993748			
1/6/2024	-70.45	-76.55	-63.62	9.7	7.5	12.6	29.8	4742137	3909270	6011970			
1/7/2024	-70.30	-76.55	-63.52	9.8	7.5	12.6	29.9	4756186	3920072	6030170			
1/8/2024	-71.24	-77.46	-64.66	9.7	7.4	12.6	29.7	4770200	3930820	6048361			
1/9/2024	-71.86	-77.69	-65.07	9.6	7.3	12.6	29.5	4784130	3941442	6066532			
1/10/2024	-71.03	-77.37	-64.61	9.7	7.4	12.6	29.7	4798075	3952042	6084706			
1/11/2024	-70.24	-32.87	-62.84	9.9	0.0	12.8	22.7	4812172	3956684	6103013	Lose level transducer at MW-7R; down from approximately 1830 on 1/10/24 to 0830 on 1/11/2024		
1/12/2024	-70.08	-116.75	-63.47	9.8	7.1	12.8	29.7	4826229	3964792	6121267			
1/13/2024	-62.42	-114.00	-52.36	0.0	0.0	0.0	0.0	4835716	3971608	6133609	System Shutdown - Transfer Tank VFD - Approximately 12 hours (2230 1/12/24-1030 1/13/24)		
1/14/2024	-67.18	-116.57	-60.56	10.0	7.3	13.0	30.3	4848006	3980621	6149466			
1/15/2024	-67.52	-111.25	-60.92	10.0	7.1	12.8	29.9	4861940	3990651	6167424			
1/16/2024	-67.86	-110.20	-60.92	10.0	7.1	12.8	29.9	4876320	4000844	6185926			
1/17/2024	-67.86	-114.92	-61.34	10.0	7.0	12.8	29.8	4890677	4011013	6204411			
1/18/2024	-68.38	-108.09	-61.39	9.9	7.0	12.8	29.7	4904988	4021114	6222873			
1/19/2024	-68.59	-112.26	-61.75	9.9	7.0	12.8	29.7	4919266	4031117	6241312			
1/20/2024	-68.83	-109.79	-62.17	9.8	6.9	12.8	29.5	4933524	4041115	6259753			
1/21/2024	-69.41	-68.08	-62.43	9.8	6.8	12.7	29.3	4947722	4051038	6278146			
1/22/2024	-69.87	-105.67	-62.95	9.8	6.8	12.7	29.3	4961860	4060850	6296493			
1/23/2024	-70.15	-78.33	-63.21	9.8	6.8	12.8	29.4	4975981	4070627	6314868			
1/24/2024	-70.51	-71.60	-63.52	9.8	6.8	12.7	29.3	4990062	4080342	6333241			
1/25/2024	-70.33	-76.78	-63.57	9.8	6.7	12.8	29.3	5004134	4090036	63516002			
1/26/2024	-69.84	-42.66	-63.05	9.8	6.8	12.8	29.4	5018279	4099726	6369994			
1/27/2024	-69.47	-73.07	-62.95	9.9	6.8	12.8	29.5	5032470	4109447	6388424			
1/28/2024	-68.99	-55.21	-62.38	9.9	6.8	12.8	29.5	5046693	4119218	6406895			
1/29/2024	-68.47	-20.18	-61.96	9.9	6.9	12.8	29.6	5060965	4129050	6425399			
1/30/2024	-68.53	-68.72	-62.01	9.9	6.9	12.8	29.6	5075247	4138917	6443874			
1/31/2024	-68.44	-62.67	-61.86	9.9	6.9	12.8	29.6	5089547	4148808	6462361			

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	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1	Total Flow	MW-5R	MW-7R	ERT-1	MW-5R	MW-7R	ERT-1
2/1/2024	-68.19	78.52	61.70	9.9	6.9	12.9	29.7	5103862	4158742	6480872	MW-7R without level transducer		
2/2/2024	-68.19	-66.52	-61.65	10.0	6.9	12.9	29.8	5118190	4168652	6499458			
2/3/2024	-68.44	-58.46	-61.96	9.9	6.9	12.9	29.7	5132502	4178557	6518019			
2/4/2024	-68.47	-44.08	-62.12	9.9	6.9	12.8	29.6	5146801	4188451	6536536			
2/5/2024	-68.77	-68.99	-61.96	9.9	6.9	12.8	29.6	5161083	4198339	6555042			
2/6/2024	-69.11	-72.84	-62.38	9.9	6.8	12.8	29.5	5175340	4208150	6573554	MW-7R level transducer repaired		
2/7/2024	-69.29	-73.48	-61.91	9.9	6.5	12.6	29.0	5189383	4217505	6591614			
2/8/2024	-69.44	-73.62	-62.53	9.9	6.5	12.6	29.0	5203585	4226852	6609821			
2/9/2024	-69.69	-73.62	-62.64	9.9	6.4	12.7	29.0	5217812	4236138	6628245			
2/10/2024	-69.90	-73.75	-62.69	9.9	6.4	12.7	29.0	5232048	4245365	6646304			
2/11/2024	-70.02	-74.21	-62.95	9.8	6.4	12.7	28.9	5246275	4254616	6664564			
2/12/2024	-70.39	-74.21	-63.31	9.8	6.4	12.6	28.8	5260446	4263804	6682766			
2/13/2024	-70.44	-74.44	-63.57	9.8	6.4	12.6	28.8	5274574	4272875	6700901			
2/14/2024	-71.15	-75.04	-64.04	9.7	6.2	12.6	28.5	5288660	4281890	6719018			
2/15/2024	-71.52	-75.31	-64.35	9.7	6.1	12.5	28.3	5302677	4290797	6737091			
2/16/2024	-71.73	-75.59	-64.76	9.7	6.1	12.5	28.3	5316681	4299678	6755163			
2/17/2024	-72.56	-78.56	-65.91	9.8	7.8	12.8	30.4	5330825	4310796	6773639	ERT-1 down at 1851		
2/18/2024	-70.73	-76.09	-58.48	10.0	8.0	0.0	18.0	5345059	4322188	6783008			
2/19/2024	-69.32	-74.99	-56.77	10.2	8.2	0.0	18.4	5359660	4333891	6783008			
2/20/2024	-68.59	-74.30	-56.10	10.3	8.3	0.0	18.6	5374379	4345701	6783008			
2/21/2024	-67.89	-73.57	-55.37	10.3	8.5	0.0	18.8	5389183	4357668	6783008			
2/22/2024	-67.22	-72.61	-54.70	10.4	8.5	0.0	18.9	5404070	4369852	6783008			
2/23/2024	-66.44	-72.20	-54.07	10.4	8.5	0.0	18.9	5419051	4382084	6783008			
2/24/2024	-66.42	-71.92	-53.81	10.4	8.6	0.0	19.0	5434083	4394397	6783008			
2/25/2024	-66.48	-72.11	-53.87	10.4	8.5	0.0	18.9	5449097	4406735	6783008			
2/26/2024	-66.09	-72.79	-53.61	10.4	8.6	0.0	19.0	5464116	4419088	6783008			
2/27/2024	-66.06	-71.74	-53.50	10.4	8.7	0.0	19.1	5479193	4431519	6783008			
2/28/2024	-65.66	-71.42	-53.24	10.5	8.7	0.0	19.2	5494305	4443976	6783008			
2/29/2024	-65.41	-71.46	-53.09	10.5	8.7	0.0	19.2	5509471	4456497	6783008	Flow rates increased at MW-5R and MW-7R		
Totals	-	-	-	-	-	-		5509471	4456497	6783008	Total Time System Down November 29, 2022 through February, 2024: 25 Days 22.5 Hours		
								16748976					

Notes:

1. Measurement point is for Top of Casing (TOC)
2. Totals include data from system startup 11/29/2022
3. Water level data is inaccurate for 3/29 & 3/30 due to OM&M repairs.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 3 - GWETS Performance Sampling Results - RSO Pilot Test Reporting Period

			Parameter	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethene	1,2-Dichloroethene Total	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chloroform	Methylene Chloride	Toluene	Trichloroethylene	Iron	pH	Total Dissolved Solids	Total Suspended Solids
			Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	SU	mg/L	mg/L
			NYS Class GA	5*	1	5*	5*	0.6	-	-	50	1	5	7	5*	5*	5*	300	-	-	-
MW-5R	-	Aug. 2022	System shut down - no samples collected.																		
MW-5R	-	Sept. 2022	System shut down - no samples collected.																		
MW-5R	-	Oct. 2022	System shut down - no samples collected.																		
MW-5R	-	Nov. 2022	System was activated for pilot test on 11/19/2022, but samples were not collected until 12/1/2022.																		
MW-5R	L	12/1/2022	5R	**116**	ND	**8.04**	**32.4**	NA	NA	4.7	NA	ND	ND	ND	ND	ND	**6.56**	ND	6.8	130	ND
MW-5R	L	12/21/2022	5R	**70.2**	ND	4.65	**9.93**	NA	NA	3.6	NA	ND	ND	ND	ND	ND	4.65	ND	6.9	260	ND
MW-5R	L	1/19/2023	5R	**64.7**	ND	4.75	**14.8**	NA	NA	4.1	NA	ND	ND	ND	ND	ND	4.63	ND	6.9	320	ND
MW-5R	L	2/22/2023	5R	**107**	ND	**7.21**	**27.2**	NA	NA	5.5	NA	ND	ND	0.240 J	ND	ND	**7.35**	ND	7.0	430	ND
MW-5R	L	3/28/2023	5R	**40.6**	ND	2.64	**10.8**	NA	NA	3.2	NA	ND	ND	ND	ND	ND	3.26	ND	6.8	330	ND
MW-5R	L	4/18/2023	5R	**40.6**	ND	2.69	**10.6**	NA	NA	2.4	NA	ND	ND	ND	ND	ND	3.53	ND	6.6	330	ND
MW-5R	L	5/16/2023	5R	1.10 J	ND	1.11 J	0.180 J	NA	NA	2.4	NA	ND	ND	ND	ND	ND	0.200 J	ND	7.9	430	ND
MW-5R	L	6/20/2023	5R	**34.6**	ND	3.38	**7.15**	NA	NA	4.1	NA	ND	ND	ND	ND	ND	3.61	ND	7.0	400	ND
MW-5R	L	7/24/2023	5R	**17.2**	ND	1.89 J	4.85	NA	NA	1.8	NA	ND	ND	ND	ND	ND	2.92	ND	6.9	370	ND
MW-5R	L	8/29/2023	5R	**24.9**	ND	2.10	**7.36**	NA	NA	2.3	NA	ND	ND	ND	ND	ND	2.85	ND	6.9	300	ND
MW-5R	L	9/18/2023	5R	**18.9**	ND	1.90 J	**7.07**	NA	NA	1.7	NA	ND	ND	ND	ND	ND	2.87	ND	6.9	400	ND
MW-5R	L	10/17/2023	5R	**31.5**	ND	2.33	**10.2**	NA	NA	2.2	NA	ND	ND	ND	ND	ND	3.71	ND	72	380	ND
MW-5R	L	11/9/2023	5R	**22.1**	ND	1.93	**7.22**	NA	NA	2.2	NA	ND	ND	ND	ND	ND	3.22	ND	7.0	210	ND
MW-5R	L	12/8/2023	5R	**15.2**	ND	1.4	**5.08**	NA	NA	1.9	NA	ND	ND	ND	ND	ND	2.6	ND	7.0	360	2.9
MW-5R	L	1/10/2024	5R	**22**	ND	1.9	**7.4**	NA	NA	2.1	ND	ND	ND	ND	ND	ND	3.1	16.9	7.4	410	ND
MW-5R	L	2/6/2024	5R	**27**	ND	2.2	**8.2**	NA	NA	2.3	ND	ND	ND	ND	ND	ND	3	ND	7.1	410	ND
MW-7R	-	Aug. 2022	System shut down - no samples collected.																		
MW-7R	-	Sept. 2022	System shut down - no samples collected.																		
MW-7R	-	Oct. 2022	System shut down - no samples collected.																		
MW-7R	-	Nov. 2022	System was activated for pilot test on 11/19/2022, but samples were not collected until 12/1/2022.																		
MW-7R	L	12/1/2022	7R	**104**	ND	**54.6**	**13.5**	NA	NA	4.4	NA	ND	ND	0.740 J	ND	ND	1.50 J	ND	6.8	280	1.6
MW-7R	L	12/21/2023	7R	**74.2**	ND	**35.6**	**5.44**	NA	NA	4.4	NA	ND	ND	0.170 J	ND	ND	1.45 J	ND	6.9	280	5.2
MW-7R	L	1/19/2023	7R	**67.0**	ND	**33.6**	**8.08**	NA	NA	3.7	NA	ND	ND	ND	ND	ND	1.36 J	ND	7.1	320	ND
MW-7R	L	2/22/2023	7R	**77.2**	ND	**33.6**	**10.7**	NA	NA	3.4	NA	ND	ND	0.290 J	ND	ND	1.77 J	ND	6.8	320	ND
MW-7R	L	3/28/2023	7R	**66.2**	ND	**32.6**	**8.94**	NA	NA	3.6	NA	ND	ND	0.190 J	ND	ND	1.45 J	ND	6.9	270	ND
MW-7R	L	4/18/2023	7R	**81.9**	ND	**40.1**	**10.5**	NA	NA	2.0	NA	ND	ND	0.170 J	ND	ND	1.21 J	ND	6.5	330	ND
MW-7R	L	5/16/2023	7R	**57.7**	ND	**33.0**	**7.21**	NA	NA	1.8	NA	ND	ND	0.160 J	ND	ND	0.850 J	0.14	7.2	370	ND
MW-7R	L	6/20/2023	7R	**51.2**	ND	**32.8**	**6.05**	NA	NA	1.2	NA	ND	ND	ND	ND	ND	0.390 J	ND	7.0	310	ND
MW-7R	L	7/24/2023	7R	**39.3**	ND	**23.0**	**6.11**	NA	NA	1.7	NA	ND	ND	0.260 J	ND	ND	0.880 J	ND	6.9	310	ND
MW-7R	L	8/29/2023	7R	**50.7**	ND	**28.4**	**7.91**	NA	NA	1.8	NA	ND	ND	0.210 J	ND	ND	0.720 J	ND	6.9	310	ND
MW-7R	L	9/18/2023	7R	**48.2**	ND	**32.6**	**8.67**	NA	NA	1.9	NA	ND	ND	ND	ND	ND	ND	ND	7.1	350	ND
MW-7R	L	10/1/2023	7R	**61.4**	ND	**30.6**	**10.3**	NA	NA	2.0	NA	ND	ND	0.290 J	ND	ND	0.890 J	ND	7.3	350	ND
MW-7R	L	11/9/2023	7R	**47.3**	ND	**26.8**	**7.69**	NA	NA	2.0	NA	ND	ND	0.220 J	ND	ND	0.790 J	ND	7.1	170	ND
MW-7R	L	12/8/2023	7R	**40.2**	ND	**22.9**	**6.38**	NA	NA	2.1	NA	ND	ND	0.150 J	ND	ND	0.690 J	ND	6.9	320	ND
MW-7R	L	1/10/2024	7R	**60**	ND	**35**	**10**	NA	NA	2.8	ND	ND	ND	ND	ND	ND	1.5	ND	7.28	370	ND
MW-7R	L	2/6/2024	7R	**71**	ND	**38**	**10**	NA	NA	2.8	ND	ND	ND	ND	ND	ND	1.6	ND	7.22	400	ND
ERT-1	-	Aug. 2022	System shut down - no samples collected.																		
ERT-1	-	Sept. 2022	System shut down - no samples collected.																		
ERT-1	-	Oct. 2022	System shut down - no samples collected.																		
ERT-1	-	Nov. 2022	System was activated for pilot test on 11/19/2022, but samples were not collected until 12/1/2022.																		
ERT-1	L	12/1/2022	ERT-1	**73.0**	ND	**13.4**	**23.3**	NA	NA	8.3	NA	ND	ND	0.950 J	ND	ND	**8.04**	ND	6.8	280	2.0
ERT-1	L	12/21/2022	ERT-1	**57.3**	ND	**9.58**	**9.16**	NA	NA	7.7	NA	ND	ND	0.270 J	ND	ND	**5.99**	ND	6.8	330	8.4
ERT-1	L	1/19/2023	ERT-1	**60.9**	ND	**8.79**	**16.6**	NA	NA	8.2	NA	ND	ND	0.230 J	ND	ND	**5.95**	ND	6.9	370	ND
ERT-1	L	Feb. 2023	EW Offline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ERT-1	L	3/28/2023	ERT-1	**62.6**	ND	**7.98**	**18.6**	NA	NA	9.0	NA	ND	ND	0.230 J	ND	ND	**5.45**	ND	6.8	350	2.0
ERT-1	L	4/18/2023	ERT-1	**45.4**	ND	**5.95**	**14.2**	NA	NA	5.5	NA	ND	ND	0.170 J	ND	ND	4.47	ND	6.5	290	ND
ERT-1	L	5/16/2023	ERT-1	**38.2**	ND	**5.67**	**11.3**	NA	NA	5.0	NA	ND	ND	0.190 J	ND	ND	3.61	ND	7.0	410	ND
ERT-1	L	6/20/2023	ERT-1	**26.2**	ND	**5.46**	**7.32**	NA	NA	4.6	NA	ND	ND	0.160 J	ND	ND	3.06	ND	6.9	370	ND
ERT-1	L	7/24/2023	ERT-1	**32.3**	ND	**7.26**	**9.57**	NA	NA	5.1	NA	ND	ND	0.270 J	ND	ND	4.07	ND	6.9	320	ND
ERT-1	L	8/29/2023	ERT-1	**28.2**	ND	**5.67**	**10.6**	NA	NA	4.4	NA	ND	ND	0.270 J	ND	ND	3.37	ND	6.9	310	ND
ERT-1	L	9/18/2023	ERT-1	**28.4**	ND	**6.72**	**12.4**	NA	NA	5.0	NA	ND	ND	ND	ND	ND	3.46	ND	6.9	360	ND
ERT-1	L	10/1/2023	ERT-1	**40.2**	ND	**6.8**	**15.7**	NA	NA	5.6	NA	ND	ND	0.280 J	ND	ND	4.57	ND	7.2	370	ND
ERT-1	L	11/9/2023	ERT-1	**31.1**	ND	**5.84**	**12.6**	NA	NA	5.1	NA	ND	ND	0.220 J	ND	ND	4.12	ND	7.1	210	ND
ERT-1	L	12/8/2023	ERT-1	**26**	ND	**5.09**	**9.57**	NA	NA	5.1	NA	ND	ND	0.180	ND	ND	3.55	ND	6.9	330	ND
ERT-1	L	1/10/2024	ERT-1	**46**	ND	**7.5**	**16**	NA	NA	6.2	ND	ND	ND	ND	ND	ND	5.2	ND	7.2	370	ND
ERT-1	L	2/6/2024	ERT-1	**53**	ND	**7.6**	**18**	NA	NA	5.52	ND	ND	ND	ND	ND	ND	5.1	ND	7.07	410	ND

Prepared by: CEFK/IEM
Checked by:NMB
Date: 2/18/2025

Table 3 - GWETS Performance Sampling Results - RSO Pilot Test Reporting Period

Parameter				1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethene	1,2-Dichloroethene Total	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chloroform	Methylene Chloride	Toluene	Trichloroethylene	Iron	pH	Total Dissolved Solids	Total Suspended Solids
Units				ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	SU	mg/L	mg/L
NYS Class GA				5*	1	5*	5*	0.6	-	-	50	1	5	7	5*	5*	5*	300	-	-	-
Pre Air Stripper Combined Influent	-	Aug. 2022	System shut down - no samples collected.																		
Pre Air Stripper Combined Influent	-	Sept. 2022	System shut down - no samples collected.																		
Pre Air Stripper Combined Influent	-	Oct. 2022	System shut down - no samples collected.																		
Pre Air Stripper Combined Influent	-	Nov. 2022	System was activated for pilot test on 11/19/2022, but samples were not collected until 12/1/2022.																		
Pre Air Stripper Combined Influent	L	12/1/2022	Combined Influent	**87.4**	ND	**23.5**	**20.0**	NA	NA	6.2	NA	ND	ND	0.570 J	ND	ND	**5.40**	ND	6.8	280	1.2
Pre Air Stripper Combined Influent	L	12/21/2022	Combined Influent	**65.2**	ND	4.38	**8.74**	NA	NA	4.1	NA	ND	ND	ND	ND	ND	4.28	0.094	6.9	260	8.0
Pre Air Stripper Combined Influent	L	1/19/2023	Combined Influent	**64.2**	ND	**5.08**	**15.6**	NA	NA	4.0	NA	ND	ND	ND	ND	ND	4.81	ND	7.0	330	ND
Pre Air Stripper Combined Influent	L	2/22/2023	Combined Influent	**113**	0.220 J	**7.59**	**27.5**	NA	NA	6.0	NA	ND	ND	0.240 J	ND	ND	**7.70**	ND	7.0	420	ND
Pre Air Stripper Combined Influent	L	3/28/2023	Combined Influent	**38.6**	ND	2.47	**9.84**	NA	NA	3.0	NA	ND	ND	ND	ND	ND	2.99	ND	6.8	360	ND
Pre Air Stripper Combined Influent	L	4/18/2023	Combined Influent	**41.3**	ND	2.69	**10.5**	NA	NA	3.0	NA	ND	ND	ND	ND	ND	3.48	ND	6.8	360	ND
Pre Air Stripper Combined Influent	L	5/16/2023	Combined Influent	**28.4**	ND	2.04	**7.24**	NA	NA	2.4	NA	ND	ND	ND	ND	ND	2.53	ND	7.1	440	ND
Pre Air Stripper Combined Influent	L	6/20/2023	Combined Influent	**31.2**	ND	4.05	**6.97**	NA	NA	3.5	NA	ND	ND	ND	ND	ND	3.36	0.51	7.0	410	2.0
Pre Air Stripper Combined Influent	L	7/24/2023	Combined Influent	**15.8**	ND	1.67	4.16	NA	NA	1.8	NA	ND	ND	ND	ND	ND	2.60	0.070	7.0	450	2.0
Pre Air Stripper Combined Influent	L	8/29/2023	Combined Influent	**27.0**	ND	2.30	**8.19**	NA	NA	2.2	NA	ND	ND	ND	ND	ND	3.13	0.17	7.0	270	ND
Pre Air Stripper Combined Influent	L	9/18/2023	Combined Influent	**18.5**	ND	2.02	**6.72**	NA	NA	1.7	NA	ND	ND	ND	ND	ND	2.71	ND	6.9	390	ND
Pre Air Stripper Combined Influent	L	10/1/2023	Combined Influent	**28.8**	ND	2.35	**9.29**	NA	NA	2.2	NA	ND	ND	ND	ND	ND	ND	0.0021	7.3	370	18
Pre Air Stripper Combined Influent	L	11/1/2023	Combined Influent	**31.2**	ND	**9.41**	**9.06**	NA	NA	3.4	NA	ND	ND	0.170 J	ND	ND	2.92	ND	7.2	130	ND
Pre Air Stripper Combined Influent	L	12/8/2023	Combined Influent	**17.7**	ND	2.31	**5.88**	NA	NA	4.3	NA	ND	ND	ND	ND	ND	2.77	ND	6.9	310	ND
Pre Air Stripper Combined Influent	L	1/10/2024	Combined Influent	**19**	ND	1.8	**6.4**	NA	NA	2.1	ND	ND	ND	ND	ND	ND	2.9	19.2	7.17	400	ND
Pre Air Stripper Combined Influent	L	2/6/2024	Combined Influent	**25**	ND	2.2	**7.2**	NA	NA	2.2	ND	ND	ND	ND	ND	ND	2.9	ND	7.26	400	ND
Air Stripper Effluent	-	Aug. 2022	System shut down - no samples collected.																		
Air Stripper Effluent	-	Sept. 2022	System shut down - no samples collected.																		
Air Stripper Effluent	-	Oct. 2022	System shut down - no samples collected.																		
Air Stripper Effluent	-	Nov. 2022	System was activated for pilot test on 11/19/2022, but samples were not collected until 12/1/2022.																		
Air Stripper Effluent	L	12/1/2022	Effluent	0.430 J	ND	0.820 J	ND	NA	NA	5.9	NA	ND	ND	3.77	ND	ND	ND	ND	7.8	380	5.4
Air Stripper Effluent	L	12/21/2022	Effluent	1.59 J	ND	0.800 J	ND	NA	NA	6.0	NA	ND	ND	ND	ND	ND	0.260 J	0.39	8.0	230	10
Air Stripper Effluent	L	1/19/2023	Effluent	0.800 J	ND	0.860 J	ND	NA	NA	5.1	NA	ND	ND	ND	ND	ND	ND	ND	8.1	340	ND
Air Stripper Effluent	L	2/22/2023	Effluent	1.02 J	ND	1.12 J	ND	NA	NA	4.5	NA	ND	ND	ND	ND	ND	ND	ND	7.8	420	2.4
Air Stripper Effluent	L	3/28/2023	Effluent	0.920 J	ND	0.890 J	ND	NA	NA	4.1	NA	ND	ND	ND	ND	ND	ND	ND	7.9	330	1.4
Air Stripper Effluent	L	4/18/2023	Effluent	2.57	ND	0.940 J	0.210 J	NA	NA	4.8	NA	ND	ND	ND	ND	ND	0.300 J	ND	7.7	360	2.2
Air Stripper Effluent	L	5/16/2023	Effluent	**29.0**	ND	2.25	**7.35**	NA	NA	3.6	NA	ND	ND	ND	ND	ND	2.57	ND	7.1	440	ND
Air Stripper Effluent	L	6/20/2023	Effluent	2.10	ND	2.40	0.260 J	NA	NA	3.3	NA	ND	ND	ND	ND	ND	0.240 J	ND	8.1	290	1.8
Air Stripper Effluent	L	7/24/2023	Effluent	1.61 J	ND	1.70 J	0.270 J	NA	NA	3.0	NA	ND	ND	ND	ND	ND	0.300 J	ND	8.1	310	8.6
Air Stripper Effluent	L	8/29/2023	Effluent	1.29 J	ND	1.90 J	0.380 J	NA	NA	3.1	NA	ND	ND	ND	ND	ND	0.330 J	ND	8.0	290	ND
Air Stripper Effluent	L	9/18/2023	Effluent	1.58 J	ND	1.55 J	ND	NA	NA	3.2	NA	ND	ND	ND	ND	ND	ND	ND	8.1	360	ND
Air Stripper Effluent	L	10/1/2023	Effluent	1.84	ND	1.57	0.3	NA	NA	3.3	NA	ND	ND	ND	ND	ND	ND	ND	8.2	360	ND
Air Stripper Effluent	L	11/9/2023	Effluent	1.46 J	ND	1.36 J	0.230 J	NA	NA	3.4	NA	ND	ND	ND	ND	ND	0.240 J	ND	8.1	230	ND
Air Stripper Effluent	L	12/8/2023	Effluent	1.24	ND	1.14 J	0.170 J	NA	NA	3.4	NA	ND	ND	ND	ND	ND	0.200 J	ND	8	320	ND
Air Stripper Effluent	L	1/10/2024	Effluent	5.1	ND	2.7	0.8 J	NA	NA	4.03	ND	ND	ND	ND	ND	ND	0.62 J	ND	8.01	390	ND
Air Stripper Effluent	L	2/6/2024	Effluent	4.5	ND	2.4	0.67 J	NA	NA	3.72	ND	ND	ND	ND	ND	ND	0.52 J	ND	7.83	410	ND

Notes:

Reported timeframe RSO Pilot Test Duration (November 2022 (RSO PT commencement) through February 2024)
ERT-1 Not Sampled February 2023 due to pump being Offline during Monthly Performance Sampling
NYS Class GA = New York State Class GA Groundwater Standards
* = The principal organic contaminant standard for groundwater of 5 ug/L applies to this substance.
" - " = No Criteria
FD - Field Duplicate
FS = Field Sample
J = Estimated Value
J- = Estimated Value, Biased Low

L = Liquid
ND = Not Detected
NA = Not Analyzed
ug/L = Micrograms per liter
Bold = Exceeds standard or guidance value

Prepared by: CEFK/IEM
Checked by:NMB
Date: 2/18/2025

Table 4a - SVE Source Area Mass Removal - SVE-19

Date	Initial DTW	Well Dry	Volume Purged (Gal)	Drawdown (ft)	Recharge Period DTW Measurements								Recovery Calculations[1]			Total VOCs Removed[2]		
					30 min	1 hour	1.5 hours	2 hours	2.5 hours	3 hours	3.5 hours	4 hours	Recovery Timeframe	Recovery (ft)	Recovery (%)	Total VOC Results (ug/L)	Gallons Removed	Lbs Removed
11/29/2022	28.08	56.47	25	28.39	56.45 [3]	NM	NM	NM	NM	NM	NM	NM	3 day	12.02	42%			
11/30/2022	52.94	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/1/2022	48.11	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/2/2022	44.45	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/21/2022	31.39	56.49	15.5	25.1	56.31	NM	56.05	NM	55.81	NM	NM	NM	2.5 hr	0.68	3%			
1/17/2023	28.27	56.7	19	28.43	56.39	NM	55.95	NM	NM	NM	NM	NM	1.5 hr	0.75	3%			
2/22/2023	37.41	56.49	13	19.08	56.2	NM	NM	NM	NM	NM	NM	NM	30 min	0.29	2%	10700	72.5	0.006439
3/28/2023	28.76	56.49	17	27.73	56	55.67	NM	NM	NM	NM	NM	NM	1 hr	0.82	3%			
4/18/2023	38.88	57.15	13	18.27	56.51	56.38	56.27	56.18	56.1	56.01	55.9	55.81	4 hr	1.34	7%			
5/16/2023	35.31	57.01	15	21.7	56.48	56.34	56.2	56.02	55.9	55.78	55.5	55.49	4 hr	1.52	7%	16470	45	0.006152
6/20/2023	38.85	56.35	15	17.5	55.83	55.21	55.63	54.12	53.83	53.67	53.45	53.07	4 hr	3.28	19%			
7/11/2023	23.74	57.15	27	33.41	50.23	45.7	42.12	39.1	36.89	34.8	34.21	31.62	4 hr	25.53	76%			
8/29/2023	36.71	56.45	12	19.74	56.53	56.44	56.4	56.37	56.28	56.15	56.14	56.06	4 hr	0.39	2%	20118	54	0.009017
9/11/2023	42.72	55.49	10	12.77	55.48	55.54	55.5	55.48	NM	NM	NM	NM	2 hr	0.01	0%			
10/17/2023	37.59	49.55	8	11.96	49.4	49.27	49.12	48.98	48.91	48.74	48.64	48.47	4 hr	1.08	9%			
12/7/2023	30.89	56.55	18	25.66	56.11	55.7	55.2	54.81	54.4	54	53.68	53.2	4 hr	3.35	13%	14110	36	0.004216
1/10/2024	26.42	56.26	19	29.84	56.25	56.14	56	55.8	55.57	55.51	55.36	55.19	4 hr	1.07	4%			
2/6/2024	25.58	57.16	17	31.58	56.05	55.91	55.81	55.68	55.61	55.35	55.21	55.09	4 hr	2.07	7%	15770	36	0.004712
																	Total (lbs)	0.030535
																	Total (gals)	243.5
																	Total Removed (lbs/gal)	0.000125

Notes:

1. Calculated volume per minute recovery rate for SVE-19: 38.6 ml/min
2. Mass Removed from SVE Point equals Total VOC concentrations multiplied by the gallons removed during the specified time period ([Total VOC result]*[gallons removed]*0.0000000083)
3. Reading completed after 15 minutes

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 4b - SVE Source Area Mass Removal - SVE-21

Date	Initial DTW	Well Dry	Volume Purged (Gal)	Drawdown (ft)	Recharge Period DTW Measurements								Recovery Calculations[1]			Total VOCs Removed[2]		
					30 min	1 hour	1.5 hours	2 hours	2.5 hours	3 hours	3.5 hours	4 hours	Recovery Timeframe	Recovery (ft)	Recovery (%)	Total VOC Results (ug/L)	Gallons Removed	Lbs Removed
11/29/2022	29.5	55.4	15	25.9	54.5 [3]	54.2	NM	53.55	NM	NM	NM	NM	3 day	17.41	67%			
11/30/2022	45.16	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/1/2022	38.38	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/2/2022	37.99	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/21/2022	38.29	55.15	11	16.86	54.92	NM	NM	54.62	NM	54.45	NM	NM	3 hr	0.7	4%			
1/17/2023	35.2	54.76	12.5	19.56	54.35	NM	53.74	NM	NM	NM	NM	NM	1.5 hr	1.02	5%			
2/22/2023	45.35	55.9	6	10.55	55.14	NM	NM	NM	NM	NM	NM	NM	30 min	0.76	7%	31100	44.5	0.011487
3/28/2023	39.32	55.7	10	16.38	54.99	54.9	NM	NM	NM	NM	NM	NM	1 hr	0.8	5%			
4/18/2023	48.13	55.68	5	7.55	55.29	55.22	55.18	55.14	55.1	55.07	55.05	55.02	4 hr	0.66	9%			
5/16/2023	46.75	55.67	5	8.92	54.37	54.31	54.27	54.19	54.14	54.05	54.02	54	4 hr	1.67	19%	19970	20	0.003315
6/20/2023	45.3	54.45	6	9.15	54.02	53.78	53.61	53.55	53.39	53.23	53.18	53.01	4 hr	1.44	16%			
7/11/2023	24.68	55.68	21	31	54.17	53.74	52.75	51.71	50.95	50.3	49.65	48.56	4 hr	7.12	23%			
8/29/2023	46.18	55.85	7	9.67	55.82	55.78	55.75	55.72	55.71	55.65	55.61	55.59	4 hr	0.26	3%	21387	34	0.006035
9/11/2023	51.02	55.12	3	4.1	55.19	55.13	55.12	55.1	NM	NM	NM	NM	2 hr	0.02	0%			
10/17/2023	37.81	54.98	11	17.17	54.88	54.76	54.65	54.56	54.49	54.43	54.38	54.31	4 hr	0.67	4%			
12/7/2023	35.1	55.05	22	19.95	54.43	53.85	52.38	52.05	51.96	51.49	51.03	50.62	4 hr	4.43	22%	4740	36	0.001416
1/10/2024	39.32	54.7	10.25	15.38	54.5	54.15	53.82	53.55	53.18	52.87	52.54	52.26	4 hr	2.44	16%			
2/6/2024	44.82	55.43	7	10.61	54.86	54.79	54.75	54.7	54.65	54.61	54.56	54.53	4 hr	0.9	8%	16670	17.25	0.002387
																	Total (lbs)	0.02464
																	Total (gals)	151.75
																	Total Removed (lbs/gal)	0.000162

Notes:

1. Calculated volume per minute recovery rate for SVE-21: 24.4 ml/min
2. Mass Removed from SVE Point equals Total VOC concentrations multiplied by the gallons removed during the specified time period ([Total VOC result]*[gallons removed]*0.0000000083)
3. Reading completed after 25 minutes

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 4c - SVE Source Area Mass Removal - SVE-22

Date	Initial DTW	Well Dry	Volume Purged (Gal)	Drawdown (ft)	Recharge Period DTW Measurements								Recovery Calculations[1]			Total VOCs Removed[2]		
					30 min	1 hour	1.5 hours	2 hours	2.5 hours	3 hours	3.5 hours	4 hours	Recovery Timeframe	Recovery (ft)	Recovery (%)	Total VOC Results (ug/L)	Gallons Removed	Lbs Removed
11/29/2022	31.64	55.15	30	23.51	54.5 [3]	53.24	NM	NM	NM	NM	NM	NM	3 day	20.7	88%			
11/30/2022	34.44	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/1/2022	33.55	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/2/2022	34.45	NA	Not Purged	---	---	NM	NM	NM	NM	NM	NM	NM	---	---	---			
12/21/2022	33.98	54.3	14	20.32	53.3	NM	NM	50.43	NM	49.1	NM	NM	3 hr	5.2	26%			
1/17/2023	32.22	54.59	10	22.37	53.12	NM	50.54	NM	NM	NM	NM	NM	1.5 hr	4.05	18%			
2/22/2023	37.36	55.6	12	18.24	53.9	NM	NM	NM	NM	NM	NM	NM	30 min	1.7	9%	3710	66	0.002032
3/28/2023	33.29	55.4	13	22.11	53.09	52.22	NM	NM	NM	NM	NM	NM	1 hr	3.18	14%			
4/18/2023	37.67	55.4	12	17.73	53.55	52.8	52.06	51.34	50.62	49.92	49.24	48.54	4 hr	6.86	39%			
5/16/2023	37.06	56.45	12	19.39	54.27	53.91	53.14	52.36	51.61	50.85	49.79	49.39	4 hr	7.06	36%	3056	37	0.000938
6/20/2023	39.95	55.45	13	15.5	54.83	54.31	53.71	53	52.62	52.27	52.02	51.83	4 hr	3.62	23%			
7/11/2023	25.2	55.4	20	30.2	46.85	41.9	37.13	33.64	30.59	28.25	26.12	25.43	4 hr	29.97	99%			
8/29/2023	37.85	54.32	10	16.47	54.08	54.05	53.01	52.62	51.84	51.4	49.73	49.51	4 hr	4.81	29%	1459	43	0.000521
9/11/2023	42.15	54.43	8	12.28	54.38	54.42	54.38	54.35	NM	NM	NM	NM	2 hr	0.08	1%			
10/17/2023	38.03	54.97	11	16.94	54.31	53.74	53.13	52.52	52.03	51.4	50.82	50.2	4 hr	4.77	28%			
12/7/2023	26.68	54.61	15	27.93	53.59	52.37	51.49	49.92	48.7	47.62	46.65	45.71	4 hr	8.9	32%	3622	34	0.001022
1/10/2024	33.73	53.94	13.5	20.21	52.99	51.86	49.68	49.6	48.38	47.23	46.08	44.89	4 hr	9.05	45%			
2/6/2024	32.17	55.13	12	22.96	53.86	53.26	52.59	51.85	51.17	50.52	49.81	49.06	4 hr	6.07	26%	4060	25.5	0.000859

Total (lbs) 0.005373
Total (gal) 205.5
Total lbs/gal Removed 0.000026

Notes:

1. Calculated volume per minute recovery rate for SVE-22: 83.6 ml/min
2. Mass Removed from SVE Point equals Total VOC concentrations multiplied by the gallons removed during the specified time period ([Total VOC result]*[gallons removed]*0.0000000083)
3. Reading completed after 10 minutes

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 5 - SVE Grab Sample VOC Results

Parameter		1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,2-Dichloroethane	cis-1,2-Dichloroethylene	Trichloroethylene
NYS Class GA Standard		5	1	5	5	0.6	5	5
Location	Sample Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SVE-19	2/22/2023	**8,300**	ND	**140**	**2,000**	ND	ND	**260**
SVE-19	5/16/2023	**13,000**	ND	ND	**3,100**	ND	ND	**370**
SVE-19*	8/29/2023	**16,200**	ND	**200 J**	**3,290**	ND	NA	**428**
SVE-19	12/7/2023	**11,000**	ND	ND	**2,800**	ND	ND	**310**
SVE-19	2/6/2024	**12,000**	ND	**170 U**	**3,300**	ND	ND	**300**
SVE-21	2/22/2023	**28,000**	ND	ND	**2,000**	ND	ND	**1,100**
SVE-21	5/16/2023	**18,000**	ND	ND	**1,200**	ND	ND	**770**
SVE-21	8/29/2023	**19,300**	ND	**75 J**	**1,280**	ND	NA	**732**
SVE-21	12/7/2023	**4,000**	ND	ND	**430**	ND	ND	**310**
SVE-21	2/6/2024	**15,000**	ND	ND	**1,100**	ND	ND	**570**
SVE-22	2/22/2023	**3,200**	ND	**50**	**260**	ND	ND	**200**
SVE-22	5/16/2023	**2,600**	ND	**56**	**230**	ND	ND	**170**
SVE-22	8/29/2023	**1,270**	ND	**28.8 J**	**82**	ND	NA	**79**
SVE-22	12/7/2023	**3,000**	ND	**62**	**300**	ND	ND	**260**
SVE-22	2/6/2024	**3,300**	ND	**70**	**380**	ND	ND	**310**

Notes:

Volatile Organic Compounds by Method 8260C

Bold	=	Exceeds standard or guidance value
NYS Class GA	=	New York State Class GA Groundwater Standards
ug/L	=	micrograms per liter
U	=	Not Detected
J	=	Estimated Value
ND	=	Not Detected at RL
NA	=	Not Analyzed

* Results incorrectly listed as SVE-K due to poor handwriting on the COC

- August 2023 sampling event submitted by Remedial Contractor for method 624 in lieu of 8260 for VOC analysis, therefore cis-1,2-DCE not analyzed.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 6a - Groundwater Elevation Measurements and Field Parameters - Baseline - January 2022

Groundwater Elevation Measurements					Field Parameters						
Monitoring Well I.D. [1]	**Screened Zone (ft bTOC)**	**Depth to Water (ft bTOC) 1/17/2022**	**Top of Casing Elevation (ft AMSL)**	**Groundwater Elevation (ft AMSL) 1/17/2022**	**Sampling Date**	**pH SI Units**	**ORP mV**	**Conductivity mS/cm^3**	**Temp ◦C**	**DO mg/L**	**Turbidity NTU**
ERT-1	28-195	51.63	303.94	252.31	1/19/2022	7.2	164	0.688	10.05	9.07	0.5
ERT-4	UNK-50	29.94	326.67	296.73	1/20/2022	7.4	-95	0.87	9.87	5.93	394
MW-1B	22-100	49.63	333.53	283.9	1/20/2022	6.78	115	0.895	9.85	2.62	13.5
MW-4	11-21.5	4.8	329.21	324.41	1/20/2022	6.86	-69	1.26	9.23	2.93	19
MW-5B	19-36.2	27.69	325.3	297.61	1/20/2022	7.18	87	0.623	10.45	4.59	9.2
MW-5R	13-125	59.08	313.63	254.55	1/19/2022	7.47	129	0.782	9.16	4.01	3.7
MW-6B	39-100	65.61	323.95	258.34	1/20/2022	7.35	-93	0.869	9.45	2.75	3.5
MW-7R	28-180	64.97	314.3	249.33	1/19/2022	7.28	150	0.656	9.73	6.02	1.1
MW-8B	48-100	28.7	159.68	130.98	1/18/2022	7.77	-182	0.507	8.3	0	0
MW-9B	95-145	17.21	248.21	231	1/19/2022	7.77	-71	0.307	9.48	0	3.6
MW-10B	24-100	25.09	225.64	200.55	1/19/2022	6.07	-30	0.258	7.18	7.14	27.4
MW-11B	49-181	26.3	281.72	255.42	1/20/2022	7.14	-133	0.629	9.2	0	9.8
MW-11C	47-220	27.89	284.58	256.69	NS	NM	NM	NM	NM	NM	NM
MW-12B	17-200	7.99	258.2	250.21	1/20/2022	6.88	-70	0.553	10.34	0.79	5.4
MW-13B	78-200	NM	221.93	NM	NS	NM	NM	NM	NM	NM	NM
MW-14B	24-155	5.12	156.67	151.55	1/18/2022	6.94	-69	0.494	10.49	0.7	0.7
MW-15B	38-150	10.56	244.89	234.33	1/19/2022	7.3	76	0.547	9.18	1.18	9.8
MW-16	73-93	22.06	274.11	252.05	1/19/2022	6.27	-39	0.268	8.75	3.07	3.5
MW-17-1	47-57	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-2	102.5-110	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-3	124-129	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-1	42.75-48	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-2	67-69.5	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-4	121.5-124	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-5	142.5-145	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-6	160.5-163	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM

Notes:

NM: Not Measured
NS: Not Sampled
Field parameters collected at MW groundwater stabilization prior to groundwater sampling.
MW-13B - No Access to well. 1" metal cap seized to metal casing.
Pilot Test MW sampling locations:
- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

FLUTE MW sampling locations:
- MW-1, -2, and -3, MW-21-1, -2, -4, -5, and -6
- ALL FLUTE MW ports frozen during January 2022 sampling event; unable to collect depth to water measurement or groundwater sample.
- FLUTE MW-21 is Artesian.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 6b - Groundwater Elevation Measurements - Pre-Pilot Test - November 2022

Groundwater Elevation Measurements				
Monitoring Well I.D.	**Screened Zone (ft BTOC)**	**Depth to Water (ft bTOC) 11/29/2022**	**Top of Casing Elevation (ft AMSL)**	**Groundwater Elevation (ft AMSL) 11/29/2022**
ERT-1	28-195	27.23	303.94	276.7
ERT-4	UNK-50	27.60	326.67	299.1
MW-1B	22-100	44.12	333.53	289.4
MW-4	11-21.5	4.34	329.21	324.9
MW-5B	19-36.2	26.44	325.3	298.9
MW-5R	13-125	36.65	313.63	277.0
MW-6B	39-100	45.55	323.95	278.4
MW-7R	28-180	37.75	314.3	276.6
MW-8B	48-100	28.79	159.68	130.9
MW-9B	95-145	NM	248.21	NM
MW-10B	24-100	26.65	225.64	199.0
MW-11B	49-181	10.45	281.72	271.3
MW-11C	47-220	11.55	284.58	273.0
MW-12B	17-200	6.20	258.2	252.0
MW-13B	78-200	NM	221.93	NM
MW-14B	24-155	NM	156.67	NM
MW-15B	38-150	9.51	244.89	235.4
MW-16	73-93	NM	274.11	NM
MW-17-1	47-57	NM	241.92	NM
MW-17-2	102.5-110	NM	241.92	NM
MW-17-3	124-129	NM	241.92	NM
MW-21-1	42.75-48	NM	233.59	NM
MW-21-2	67-69.5	NM	233.59	NM
MW-21-4	121.5-124	NM	233.59	NM
MW-21-5	142.5-145	NM	233.59	NM
MW-21-6	160.5-163	NM	233.59	NM

Notes:
NM: Not
NS: Not
MW-13B - No Access to well. 1" metal cap seized to metal casing.
Pilot Test MW sampling locations:
- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

FLUTE MW sampling locations:
- MW-1, -2, and -3, MW-21-1, -2, -4, -5, and -6
- FLUTE MW-21 is Artesian.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 6c - Groundwater Elevation Measurements and Field Parameters - RSO Pilot Test - May 2023

Groundwater Elevation Measurements					Field Parameters						
Monitoring Well I.D.	**Screened Zone (ft BTOC)**	**Depth to Water (ft bTOC) 5/15/2023**	**Top of Casing Elevation (ft AMSL)**	**Groundwater Elevation (ft AMSL) 5/15/2023**	**Sampling Date**	**pH SI Units**	**ORP mV**	**Conductivity mS/cm^3**	**Temp ◦C**	**DO mg/L**	**Turbidity NTU**
ERT-1	28-195	60.47	303.94	243.5	5/17/2023	7.02	229	0.546	14.52	6.9	0
ERT-4	UNK-50	29.44	326.67	297.2	5/18/2023	7.52	202	0.737	14.67	8.18	180
MW-1B	22-100	53.13	333.53	280.4	5/16/2023	6.82	166	0.717	15.08	2.6	28.6
MW-4	11-21.5	6.04	329.21	323.2	5/18/2023	6.91	187	0.949	13.98	0	146
MW-5B	19-36.2	27.88	325.3	297.4	5/16/2023	6.79	173	0.494	13.95	4.55	7.2
MW-5R	13-125	72.49	313.63	241.1	5/17/2023	6.94	229	0.591	13.69	6.4	0
MW-6B	39-100	78.31	323.95	245.6	5/18/2023	7.34	156	0.657	13.36	5.26	0
MW-7R	28-180	77.69	314.3	236.6	5/17/2023	6.99	239	0.507	16.45	9.55	0
MW-8B	48-100	30.31	159.68	129.4	5/16/2023	8.01	-204	0.44	15.63	1.22	34
MW-9B	95-145	17.47	248.21	230.7	5/17/2023	7.78	-123	0.292	11.59	0.45	72.3
MW-10B	24-100	23.22	225.64	202.4	5/16/2023	6.55	105	0.191	11.77	0.12	7.2
MW-11B	49-181	34.81	281.72	246.9	5/18/2023	7.64	-77	0.495	13.18	0.81	77.2
MW-11C	47-220	36.82	284.58	247.8	5/18/2023	7.11	111	0.701	13.16	0.2	11.9
MW-12B	17-200	10.28	258.2	247.9	5/18/2023	7.02	152	0.413	12.71	1.34	9.5
MW-13B	78-200	NM	221.93	NM	NS	NM	NM	NM	NM	NM	NM
MW-14B	24-155	4.99	156.67	151.7	5/16/2023	7.09	-67	0.413	12.98	0.75	18.7
MW-15B	38-150	11.20	244.89	233.7	5/17/2023	7.18	169	0.436	10.7	4.79	4.8
MW-16	73-93	23.85	274.11	250.3	5/17/2023	6.43	191	0.128	11.64	3.54	195
MW-17-1	47-57	5.00	241.92	236.9	5/16/2023	7.13	65	0.434	12.49	1.73	0
MW-17-2	102.5-110	10.45	241.92	231.5	5/16/2023	7.04	82	0.433	12.45	1.13	8
MW-17-3	124-129	10.45	241.92	231.5	5/16/2023	6.95	9	0.45	12.34	0.43	7.2
MW-21-1	42.75-48	0.00	233.59	233.6	5/17/2023	6.88	179	0.392	12.33	4.75	0
MW-21-2	67-69.5	0.00	233.59	233.6	5/17/2023	6.85	183	0.345	12.2	5.03	0
MW-21-4	121.5-124	0.00	233.59	233.6	5/17/2023	6.87	184	0.356	12.57	6.42	0
MW-21-5	142.5-145	0.00	233.59	233.6	5/17/2023	6.8	185	0.369	12.08	7.65	0
MW-21-6	160.5-163	0.00	233.59	233.6	5/17/2023	6.9	185	0.37	11.9	4.18	0

Notes:

NM: Not Measured

NS: Not Sampled

Field parameters collected at MW groundwater stabilization prior to groundwater sampling.

MW-13B - No Access to well. 1" metal cap seized to metal casing.

Pilot Test MW sampling locations:

- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

FLUTE MW sampling locations:

- MW-1, -2, and -3, MW-21-1, -2, -4, -5, and -6
- FLUTE MW-21 is Artesian.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 6d - Groundwater Elevation Measurements and Field Parameters - RSO Pilot Test - August 2023

Groundwater Elevation Measurements					Field Parameters						
Monitoring Well I.D.	**Screened Zone (ft BTOC)**	**Depth to Water (ft bTOC) August 2023**	**Top of Casing Elevation (ft AMSL)**	**Groundwater Elevation (ft AMSL) August 2023**	**Sampling Date**	**pH SI Units**	**ORP mV**	**Conductivity mS/cm^3**	**Temp ◦C**	**DO mg/L**	**Turbidity NTU**
ERT-1	28-195	73.45	303.94	230.5	8/29/2023	6.77	262	0.42	18.33	0	3.9
ERT-4	UNK-50	32.31	326.67	294.4	8/30/2023	7.4	187	0.637	18.76	3.49	360
MW-1B	22-100	NM	333.53	NM	NS	NM	NM	NM	NM	NM	NM
MW-4	11-21.5	6.97	329.21	322.2	8/30/2023	6.86	220	0.869	20.01	0	25
MW-5B	19-36.2	29.54	325.3	295.8	8/30/2023	6.88	122	0.457	17.84	5.54	0
MW-5R	13-125	79.21	313.63	234.4	8/29/2023	7.02	225	0.452	16.41	0	3.6
MW-6B	39-100	NM	323.95	NM	NS	NM	NM	NM	NM	NM	NM
MW-7R	28-180	83.74	314.3	230.6	8/29/2023	7.07	224	0.396	15.05	0	4.1
MW-8B	48-100	NM	159.68	NM	NS	NM	NM	NM	NM	NM	NM
MW-9B	95-145	NM	248.21	NM	NS	NM	NM	NM	NM	NM	NM
MW-10B	24-100	NM	225.64	NM	NS	NM	NM	NM	NM	NM	NM
MW-11B	49-181	40.30	281.72	241.4	8/30/2023	7.28	-140	0.451	15.38	0	287
MW-11C	47-220	NM	284.58	NM	NS	NM	NM	NM	NM	NM	NM
MW-12B	17-200	12.24	258.2	246.0	8/30/2023	6.72	-4	0.41	17.4	3.93	4.9
MW-13B	78-200	NM	221.93	NM	NS	NM	NM	NM	NM	NM	NM
MW-14B	24-155	NM	156.67	NM	NS	NM	NM	NM	NM	NM	NM
MW-15B	38-150	11.55	244.89	233.3	8/29/2023	7.13	-8	0.354	14.54	0.84	65.9
MW-16	73-93	NM	274.11	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-1	47-57	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-2	102.5-110	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-3	124-129	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-1	42.75-48	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-2	67-69.5	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-4	121.5-124	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-5	142.5-145	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-6	160.5-163	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM

Notes:

NM: Not Measured

NS: Not Sampled

Field parameters collected at MW groundwater stabilization prior to groundwater sampling.

Pilot Test MW sampling locations:

- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

FLUTE MW sampling locations:

- MW-1, -2, and -3, MW-21-1, -2, -4, -5, and -6
- FLUTE MW-21 is Artesian.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 6e - Groundwater Elevation Measurements and Field Parameters - RSO Pilot Test - November 2023

Groundwater Elevation Measurements					Field Parameters						
Monitoring Well I.D.	**Screened Zone (ft BTOC)**	**Depth to Water (ft bTOC) November 2023**	**Top of Casing Elevation (ft AMSL)**	**Groundwater Elevation (ft AMSL) November 2023**	**Sampling Date**	**pH SI Units**	**ORP mV**	**Conductivity mS/cm^3**	**Temp ◦C**	**DO mg/L**	**Turbidity NTU**
ERT-1	28-195	70.37	303.94	233.6	11/8/2023	7.17	77	0.338	12.72	3.27	9.7
ERT-4	UNK-50	28.14	326.67	298.5	11/8/2023	7.28	70	0.476	13.31	4.62	283
MW-1B	22-100	NM	333.53	NM	NS	NM	NM	NM	NM	NM	NM
MW-4	11-21.5	5.07	329.21	324.1	11/8/2023	6.93	81	0.652	14.84	0.61	230
MW-5B	19-36.2	27.30	325.3	298.0	11/9/2023	6.89	109	0.621	11.54	7.17	1.7
MW-5R	13-125	76.68	313.63	237.0	11/8/2023	7.24	95	0.363	12.46	3.48	1.6
MW-6B	39-100	NM	323.95	NM	NS	NM	NM	NM	NM	NM	NM
MW-7R	28-180	83.19	314.3	231.1	11/8/2023	7.21	78	0.321	12.25	2.52	1.7
MW-8B	48-100	NM	159.68	NM	NS	NM	NM	NM	NM	NM	NM
MW-9B	95-145	NM	248.21	NM	NS	NM	NM	NM	NM	NM	NM
MW-10B	24-100	NM	225.64	NM	NS	NM	NM	NM	NM	NM	NM
MW-11B	49-181	38.44	281.72	243.3	11/8/2023	7.27	-111	0.589	12.49	1.39	319
MW-11C	47-220	NM	284.58	NM	NS	NM	NM	NM	NM	NM	NM
MW-12B	17-200	10.75	258.2	247.5	11/8/2023	6.8	-4	0.529	13.68	3.27	9.7
MW-13B	78-200	NM	221.93	NM	NS	NM	NM	NM	NM	NM	NM
MW-14B	24-155	NM	156.67	NM	NS	NM	NM	NM	NM	NM	NM
MW-15B	38-150	11.27	244.89	233.6	11/8/2023	6.92	45	0.506	10.6	1.07	58.4
MW-16	73-93	NM	274.11	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-1	47-57	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-2	102.5-110	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-3	124-129	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-1	42.75-48	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-2	67-69.5	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-4	121.5-124	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-5	142.5-145	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-6	160.5-163	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM

Notes:

NM: Not Measured

NS: Not Sampled

Field parameters collected at MW groundwater stabilization prior to groundwater sampling.

Pilot Test MW sampling locations:

- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

FLUTE MW sampling locations:

- MW-1, -2, and -3, MW-21-1, -2, -4, -5, and -6
- FLUTE MW-21 is Artesian.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 6f - Groundwater Elevation Measurements and Field Parameters - RSO Pilot Test - February 2024

Groundwater Elevation Measurements					Field Parameters						
Monitoring Well I.D.	**Screened Zone (ft BTOC)**	**Depth to Water (ft bTOC) February 2024**	**Top of Casing Elevation (ft AMSL)**	**Groundwater Elevation (ft AMSL) February 2024**	**Sampling Date**	**pH SI Units**	**ORP mV**	**Conductivity mS/cm^3**	**Temp ◦C**	**DO mg/L**	**Turbidity NTU**
ERT-1	28-195	62.38	303.94	241.6	2/8/2024	7.67	191	0.633	9.43	6.04	0
ERT-4	UNK-50	27.26	326.67	299.4	2/7/2024	7.24	135	0.735	10.66	7.14	142
MW-1B	22-100	NM	333.53	NM	NS	NM	NM	NM	NM	NM	NM
MW-4	11-21.5	3.91	329.21	325.3	2/7/2024	6.86	-38	1.05	7.96	0	13.9
MW-5B	19-36.2	25.71	325.3	299.6	2/7/2024	7.13	135	0.551	10.44	5.03	4.3
MW-5R	13-125	69.11	313.63	244.5	2/8/2024	7.55	186	0.659	9.07	6.29	0
MW-6B	39-100	NM	323.95	NM	NS	NM	NM	NM	NM	NM	NM
MW-7R	28-180	72.84	314.3	241.5	2/8/2024	7.56	211	0.681	8.36	7.27	3.7
MW-8B	48-100	NM	159.68	NM	NS	NM	NM	NM	NM	NM	NM
MW-9B	95-145	NM	248.21	NM	NS	NM	NM	NM	NM	NM	NM
MW-10B	24-100	NM	225.64	NM	NS	NM	NM	NM	NM	NM	NM
MW-11B	49-181	32.06	281.72	249.7	2/7/2024	8.73	-126	0.676	11.66	0.24	584
MW-11C	47-220	NM	284.58	NM	NS	NM	NM	NM	NM	NM	NM
MW-12B	17-200	9.02	258.2	249.2	2/8/2024	6.85	117	0.508	10.21	0	7.6
MW-13B	78-200	NM	221.93	NM	NS	NM	NM	NM	NM	NM	NM
MW-14B	24-155	NM	156.67	NM	NS	NM	NM	NM	NM	NM	NM
MW-15B	38-150	11.31	244.89	233.6	2/7/2024	8.09	125	0.597	9.71	1.57	4
MW-16	73-93	NM	274.11	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-1	47-57	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-2	102.5-110	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-17-3	124-129	NM	241.92	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-1	42.75-48	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-2	67-69.5	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-4	121.5-124	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-5	142.5-145	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM
MW-21-6	160.5-163	NM	233.59	NM	NS	NM	NM	NM	NM	NM	NM

Notes:

NM: Not Measured

NS: Not Sampled

Field parameters collected at MW groundwater stabilization prior to groundwater sampling.

Pilot Test MW sampling locations:

- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

FLUTE MW sampling locations:

- MW-1, -2, and -3, MW-21-1, -2, -4, -5, and -6
- FLUTE MW-21 is Artesian.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 7a - Groundwater Quality Data - Volatile Organic Compounds - Baseline - January 2022

Parameter			1,4-Dioxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trichloroethene
		NYS Class GA Standard	NS	5	1	5	5	0.6	5	5
Location	**Sample Date**	**Sample ID**	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ERT-1	1/19/2022	356023 - ERT1	3	**47.7**	1 U	**12.4**	**26.3**	1 U	1 U	**6.1**
ERT-4	1/20/2022	356023 - ERT4	1.9	**1530**	**2.2**	**46.8** J+	**173**	**3.2** J+	4 J+	**120**
MW-4	1/20/2022	356023 - MW4	1.4	**653**	1 U	**28.8**	**144**	**1.6**	**8.3**	**253**
MW-5B	1/20/2022	356023 - MW5B	2	**608**	1 U	**15.8**	**111**	**1.5**	1.1	**40.5**
MW-5R	1/19/2022	356023 - MW5R	1.8	**55.6**	1 U	**6.9**	**27.9**	1 U	1 U	**6.4**
MW-7R	1/19/2022	356023 - MW7R	1.5	**57.7**	1 U	**50**	**13.2**	1 U	2	1.6
MW-11B	1/20/2022	356023 - MW11B	1.2	1 U	1 U	3.5 U	**7**	1 U	1 U	1.1
MW-12B	1/20/2022	356023 - MW12B	2.3	2.5	1	**8.9**	**16.9**	1 U	1 U	2.9
MW-15B	1/19/2022	356023 - MW15B	2.1	**10.2**	1 U	**9.1**	**19**	1 U	1 U	1.4

Notes:

Pilot Test MW Quarterly sampling locations:
- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

1,4-Dioxane by Method 8270E
Volatile Organic Compounds (VOCs) by Method 8260C

Bold = Exceeds standard or guidance value
NYS Class GA = New York State Class GA Groundwater Standards
ug/L = micrograms per liter
U = Not Detected
J = Estimated Value

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 7b - Groundwater Quality Data - Volatile Organic Compounds - RSO Pilot Test - May 2023

		Parameter	1,4-Dioxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trichloroethene	2-Butanone
		NYS Class GA Standard	NS	5	1	5	5	0.6	5	5	50
Location	**Sample Date**	**Sample ID**	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ERT-1	5/17/2023	356023-ERT1	5	**35**	1 U	**5.2**	**10**	1 U	0.24 J	3.5	20 U
ERT-4	5/18/2023	356023-ERT4	3.5	**1000**	20 U	**29**	**82**	20 U	**6.8** J	**67**	**60** J
MW-4	5/18/2023	356023-MW4	3	**400**	5 U	**19**	**58**	5 U	**12**	**240**	10 J
MW-5B	5/16/2023	356023-MW5B	5.1	**490**	10 U	**9.8** J	**61**	10 U	10 U	**32**	200 U
MW-5R	5/17/2023	356023-MW5R	2.4	**28**	1 U	2.1	**7.3**	1 U	1 U	**2.5**	20 U
MW-7R	5/17/2023	356023-MW7R	1.9	**55**	1 U	**32**	**7.1**	1 U	0.97 J	0.87 J	20 U
MW-11B	5/18/2023	356023-MW11B	2.2	0.58 J	1 U	1.5	2.5	1 U	1 U	0.52 J	20 U
MW-12B	5/18/2023	356023-MW12B	1.5	3.7	1 U	1.7	3.5	1 U	1 U	1.2	20 U
MW-15B	5/17/2023	356023-MW15B	4.9	**9.8**	1 U	**5.8**	**9.8**	1 U	1 U	1.2	20 U

Notes:

Pilot Test MW Quarterly sampling locations:
- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

1,4-Dioxane by Method 8270E
Volatile Organic Compounds (VOCs) by Method 8260C

Bold = Exceeds standard or guidance value
NYS Class GA = New York State Class GA Groundwater Standards
ug/L = micrograms per liter
U = Not Detected
J = Estimated Value

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 7c - Groundwater Quality Data - Volatile Organic Compounds - RSO Pilot Test - August 2023

		Parameter	1,4-Dioxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trichloroethene	2-Butanone	Acetone
		NYS Class GA Standard	NS	5	1	5	5	0.6	5	5	50	50
Location	**Sample Date**	**Sample ID**	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ERT-1	8/29/2023	356023-ERT-1	4.9	**32**	1 U	**6.2**	**13**	1 U	0.35 J	3.8	20 U	50 U
ERT-4	8/30/2023	356023-ERT-4	5.6	**2300**	40 U	**51**	**210**	40 U	40 U	**120**	**120** J	**110** J
MW-4	8/30/2023	356023-MW-4	2.2	**390**	5 U	**22**	**57**	5 U	**12**	**260**	100 U	250 U
MW-5B	8/30/2023	356023-MW-5B	4	**720**	10 U	**14**	**81**	10 U	10 U	**36**	200 U	500 U
MW-5R	8/29/2023	356023-MW-5R	2.5	**27**	1 U	2.4	**8.6**	1 U	1 U	3.2	20 U	50 U
MW-7R	8/29/2023	356023-MW-7R	1.6	**57**	1 U	**32**	**9**	1 U	0.98 J	0.8 J	20 U	50 U
MW-11B	8/30/2023	356023-MW-11B	2.8 J	0.92 J	1 U	2.5	4.4	1 U	1 U	0.86 J	20 U	2.1 J
MW-11B	8/30/2023	356023-MW-DUP	2.8	0.88 J	1 U	2.7	4.4	1 U	1 U	0.78 J	20 U	2 J
MW-12B	8/30/2023	356023-MW-12B	0.7	1.6	1 U	1.5	1.9	1 U	1 U	0.55 J	20 U	2.2 J
MW-15B	8/29/2023	356023-MW-15B	4.4	**11**	1 U	**6.9**	**13**	1 U	1 U	1.3	20 U	50 U

Notes:

Pilot Test MW Quarterly sampling locations:
- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

1,4-Dioxane by Method 8270E
Volatile Organic Compounds (VOCs) by Method 8260C

Bold = Exceeds standard or guidance value
NYS Class GA = New York State Class GA Groundwater Standards
ug/L = micrograms per liter
U = Not Detected
J = Estimated Value

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 7d - Groundwater Quality Data - Volatile Organic Compounds - RSO Pilot Test - November 2023

		Parameter	1,4-Dioxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trichloroethene
		NYS Class GA Standard	NS	5	1	5	5	0.6	5	5
Location	Sample Date	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ERT-1	11/8/2023	356023-ERT-1	4.9	**33**	1 U	**6.7**	**14**	1 U	0.31 J	4.3
ERT-4	11/8/2023	356023-ERT-4	5.6	**1400**	10 U	**50**	**160**	10 U	**5.3** J	**120**
MW-4	11/8/2023	356023-MW-4	2.5	NA	NA	NA	NA	NA	NA	NA
MW-4	11/30/2023	356023-MW-4	-	**380**	4 U	**19**	**47**	4 U	**11**	**220**
MW-4	11/30/2023	356023-MW-DUP	-	**390**	4 U	**19**	**49**	4 U	**11**	**230**
MW-5B	11/9/2023	356023-MW-5B	6.6	**660**	1.4 J	**13**	**120**	5 U	5 U	**39**
MW-5R	11/8/2023	356023-MW-5R	2.2	**24**	1 U	2.2	**8.4**	1 U	1 U	3.6
MW-7R	11/8/2023	356023-MW-7R	1.8	**53**	1 U	**32**	**9.4**	1 U	1	0.88 J
MW-11B	11/8/2023	356023-MW-11B	2.8	0.76 J	1 U	2.9	4.5	1 U	1 U	0.78 J
MW-11B	11/8/2023	356023-MW-DUP	3	NA	NA	NA	NA	NA	NA	NA
MW-12B	11/8/2023	356023-MW-12B	0.63	1.8	1 U	1.4	1.9	1 U	1 U	0.65 J
MW-15B	11/8/2023	356023-MW-15B	4.1	NA	NA	NA	NA	NA	NA	NA
MW-15B	11/30/2023	356023-MW-15B	-	**11**	1 U	**6.2**	**11**	1 U	0.14 J	1.2

Notes:

Pilot Test MW Quarterly sampling locations:
- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

1,4-Dioxane by Method 8270E
Volatile Organic Compounds by Method 8260C

Bold = Exceeds standard or guidance value
NYS Class GA = New York State Class GA Groundwater Standards
ug/L = micrograms per liter
U = Not Detected
J = Estimated Value
NA = Collected but not analyzed due to laboratory breakage. Required VOCs resampling on 11/30/24.

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

Table 7e - Groundwater Quality Data - Volatile Organic Compounds - RSO Pilot Test - February 2024

		Parameter	1,4-Dioxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	Trichloroethene
		NYS Class GA Standard	NS	5	1	5	5	0.6	5	5
Location	Sample Date	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ERT-1	2/8/2024	356023-ERT-1	5.67	**47**	1.5 U	**7.1**	**15**	0.5 U	2.5 U	**5.3**
ERT-4	2/7/2024	356023-ERT-4	5.8	**2100**	38 U	**46** J	**210**	12 U	62 U	**100**
MW-4	2/7/2024	356023-MW-4	3.1	**520**	7.5 U	**22**	**79**	1.2 J	**11** J	**290**
MW-5B	2/7/2024	356023-MW-5B	9.62	**850**	15 U	**19** J	**160**	5 U	25 U	**60**
MW-5R	2/8/2024	356023-MW-5R	2.24	**26**	1.5 U	2.1 J	**7.4**	0.5 U	2.5 U	3.3
MW-7R	2/8/2024	356023-MW-7R	2.71	**74**	1.5 U	**42**	**11**	0.5 U	1.3 J	1.6
MW-11B	2/7/2024	356023-MW-11B	3.02	0.88 J	1.5 U	2.6	4.8	0.5 U	2.5 U	0.89
MW-11B	2/7/2024	356023-MW-DUP	2.98	0.98 J	1.5 U	2.7	**5**	0.5 U	2.5 U	1
MW-12B	2/8/2024	356023-MW-12B	0.548	2.1 J	1.5 U	1.3 J	1.8	0.5 U	2.5 U	0.64
MW-15B	2/7/2024	356023-MW-15B	4.11	**12**	1.5 U	**6.2**	**14**	0.5 U	2.5 U	1.3

Notes:

Pilot Test MW Quarterly sampling locations:
- Extraction MWs: ERT-1, MW-5R, and MW-7R
- MWs: ERT-4, MW-4, MW-5B, MW-11B, MW-12B, and MW-15B

1,4-Dioxane by Method 8270E
Volatile Organic Compounds by Method 8260C

Bold = Exceeds standard or guidance value
NYS Class GA = New York State Class GA Groundwater Standards
ug/L = micrograms per liter
U = Not Detected
J = Estimated Value

Prepared by: IM/LB
Checked by: NMB
Date: 2/18/2025

APPENDIX A

RSO Pilot Test Setup

A-1 – Photo Log

A-2 – Extraction Monitoring Well Logs

A-3 – Lansas Packer Schematic

APPENDIX A-1 – Photo Log

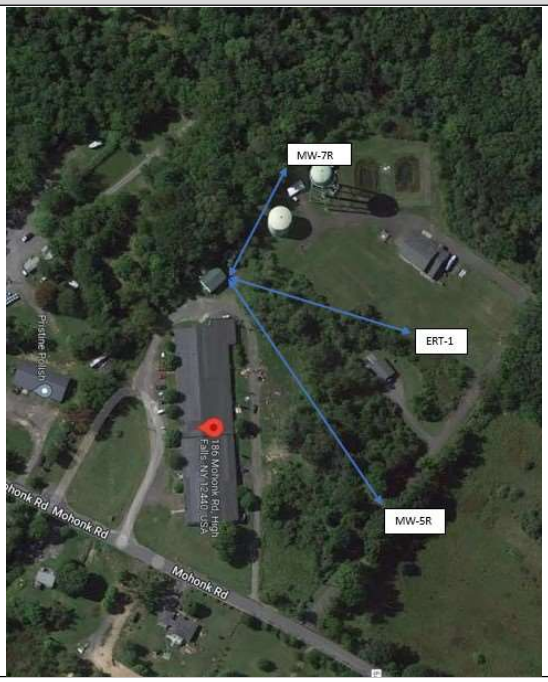
MOHONK ROAD INDUSTRIAL PLANT SITE NO. 356023
RSO PILOT TEST SETUP PHOTO LOG

RSO Pilot Test Setup Activities

Photo 1: Water Level Data Loggers installed 7/6/2022 (ERT-4, MW-4, MW-5B, MW-11B, MW-12B, MW-15B)



Photo 2: Brush Clearing and Trenching Routes For Electric and Nitrogen Lines Completed 7/14/22-8/17/22.



Created By: IM
Reviewed By: NMB

Photo 3: New Conduit, Electrical and Nitrogen Lines Terminating at MW-5R (Photo Taken after Panel Box Installation)



Photo 4: MW-5R Wellhead Before Upgrade



Photo 5: GWETS influent manifold. No modifications done to water lines during RSO.



Photo 6: ERT-1 Pump and Packer Optimization As-Built

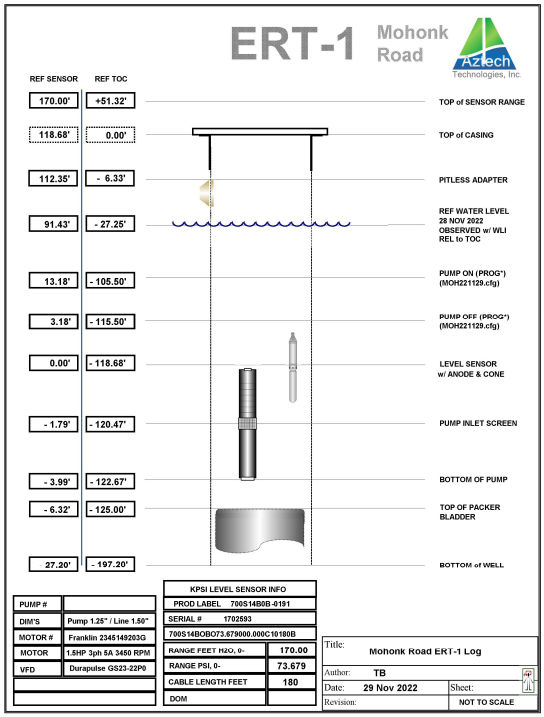


Photo 7: MW-5R Pump and Packer Optimization As-Built

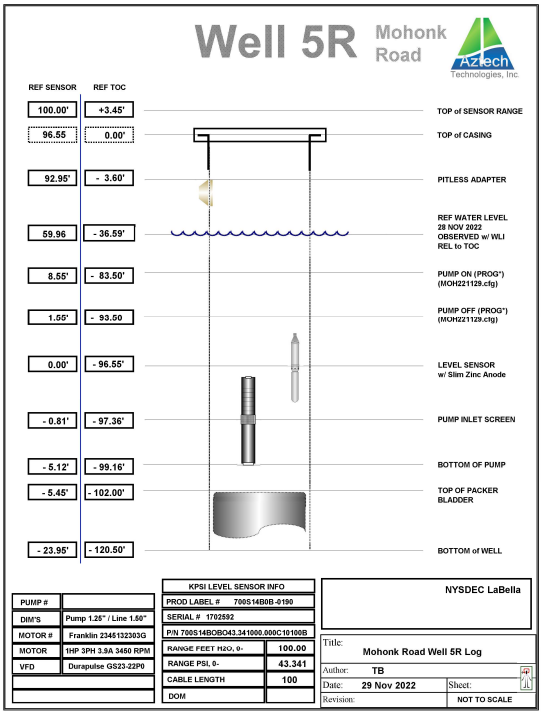


Photo 8: MW-7R Pump and Packer Optimization As-Built

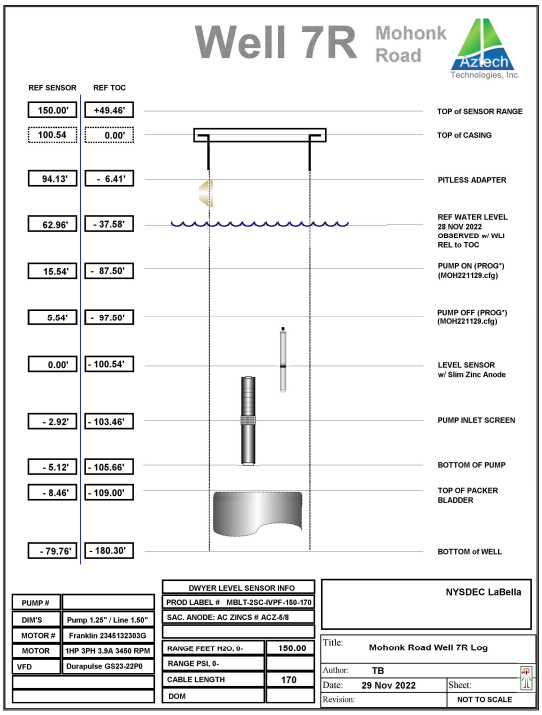


Photo 9: Centralized Nitrogen Source, Pressure Sensor and Manifold for Inflating the Packers.



Photo 10: Nitrogen Supply Manifold.



Photo 11: Wellhead Electrical Upgrade – New Panel Boxes (The same at 3 Locations)



Photo 12: Wellhead Electrical Upgrades – Panel Box Closeup (VFD – Bottom Left)



Photo 13: New System Component Programming and Testing

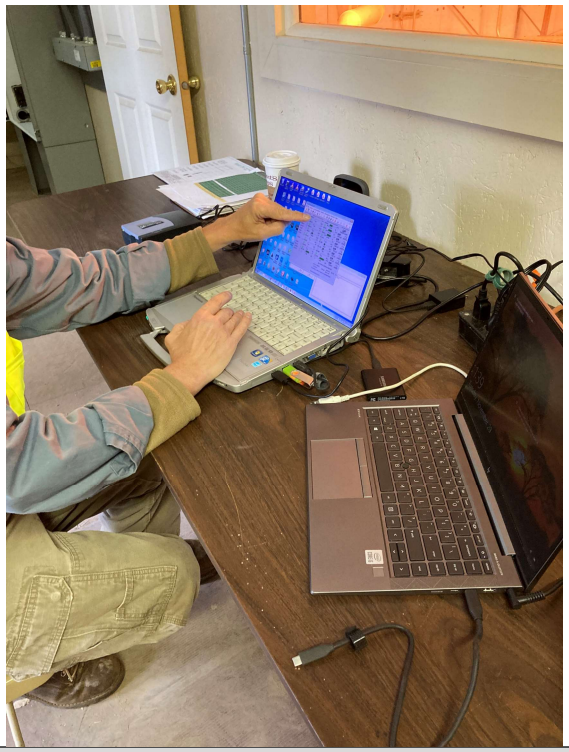


Photo 14: Pilot Test Monitoring Well Data Logger Data Collection



Photo 15: SVE Purge



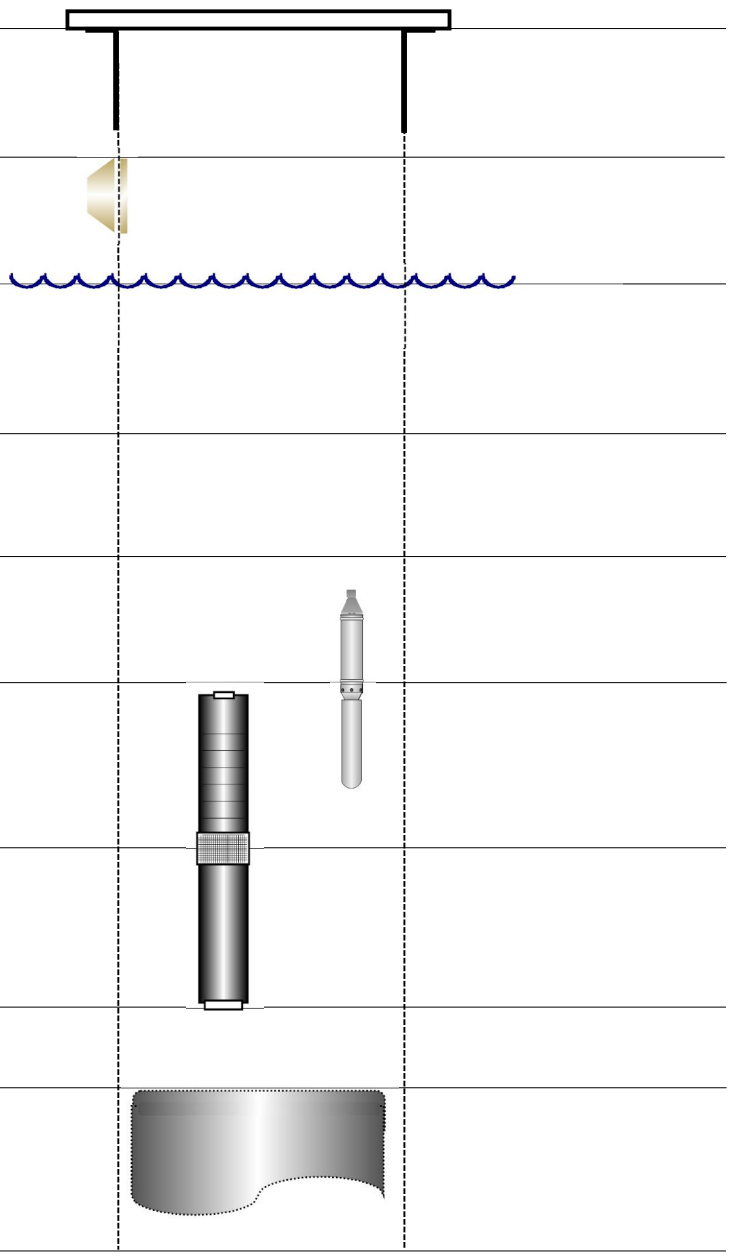
Photo 16: SVE Purge



APPENDIX A-2 – Extraction Monitoring Well Logs

ERT-1 Mohonk Road

Aztech Technologies, Inc.



REF SENSOR	REF TOC	
170.00'	+51.32'	TOP of SENSOR RANGE
118.68'	0.00'	TOP of CASING
112.35'	- 6.33'	PITLESS ADAPTER
91.43'	- 27.25'	REF WATER LEVEL 28 NOV 2022 OBSERVED w/ WLI REL to TOC
13.18'	- 105.50'	PUMP ON (PROG*) (MOH221129.cfg)
3.18'	- 115.50'	PUMP OFF (PROG*) (MOH221129.cfg)
0.00'	- 118.68'	LEVEL SENSOR w/ ANODE & CONE
- 1.79'	- 120.47'	PUMP INLET SCREEN
- 3.99'	- 122.67'	BOTTOM OF PUMP
- 6.32'	- 125.00'	TOP OF PACKER BLADDER
- 27.20'	- 197.20'	BOTTOM of WELL

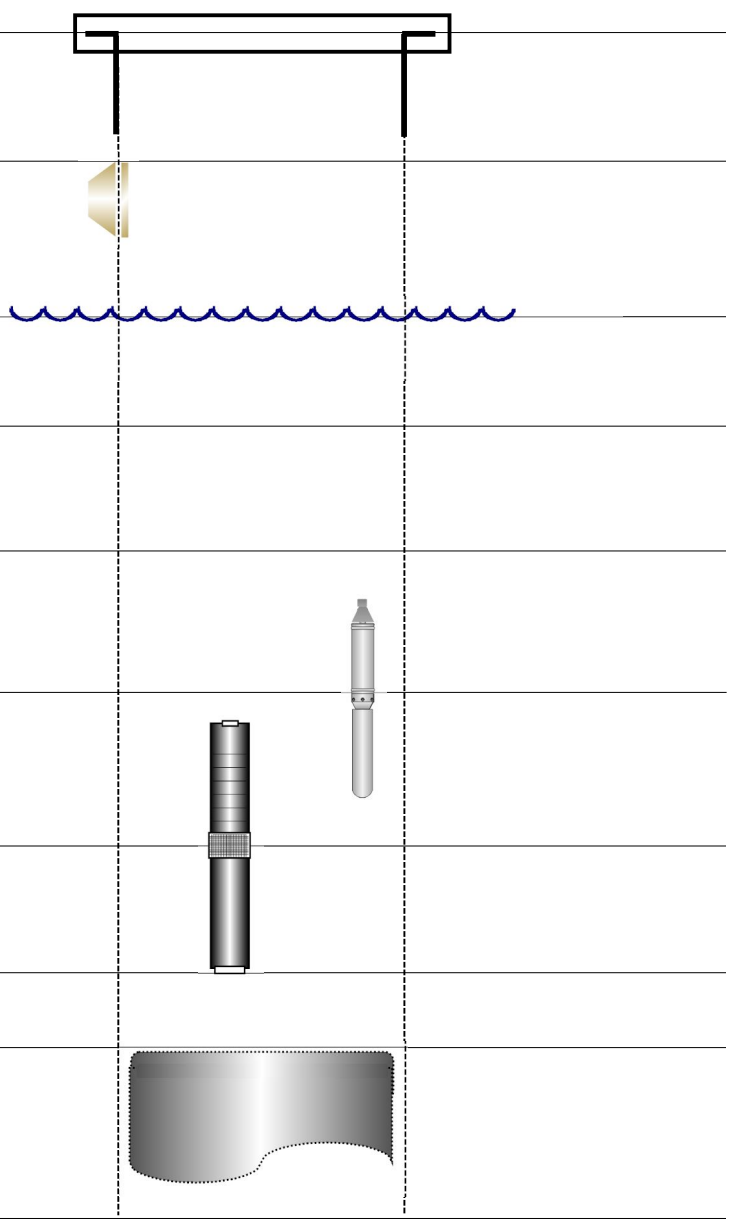
PUMP #	
DIM'S	Pump 1.25" / Line 1.50"
MOTOR #	Franklin 2345149203G
MOTOR	1.5HP 3ph 5A 3450 RPM
VFD	Durapulse GS23-22P0

KPSI LEVEL SENSOR INFO	
PROD LABEL 700S14B0B-0191	
SERIAL # 1702593	
700S14BOBO73.679000.000C10180B	
RANGE FEET H2O, 0-	170.00
RANGE PSI, 0-	73.679
CABLE LENGTH FEET	180
DOM	

Title:	Mohonk Road ERT-1 Log	
Author:	TB	
Date:	29 Nov 2022	Sheet:
Revision:		NOT TO SCALE

Well 5R Mohonk Road

Aztech Technologies, Inc.



REF SENSOR	REF TOC	
100.00'	+3.45'	TOP of SENSOR RANGE
96.55	0.00'	TOP of CASING
92.95'	- 3.60'	PITLESS ADAPTER
59.96	- 36.59'	REF WATER LEVEL 28 NOV 2022 OBSERVED w/ WLI REL to TOC
8.55'	- 83.50'	PUMP ON (PROG*) (MOH221129.cfg)
1.55'	- 93.50	PUMP OFF (PROG*) (MOH221129.cfg)
0.00'	- 96.55'	LEVEL SENSOR w/ Slim Zinc Anode
- 0.81'	- 97.36'	PUMP INLET SCREEN
- 5.12'	- 99.16'	BOTTOM OF PUMP
- 5.45'	- 102.00'	TOP OF PACKER BLADDER
- 23.95'	- 120.50'	BOTTOM of WELL

PUMP #	
DIM'S	Pump 1.25" / Line 1.50"
MOTOR #	Franklin 2345132303G
MOTOR	1HP 3PH 3.9A 3450 RPM
VFD	Durapulse GS23-22P0

KPSI LEVEL SENSOR INFO	
PROD LABEL # 700S14B0B-0190	
SERIAL # 1702592	
P/N 700S14BOBO43.341000.000C10100B	
RANGE FEET H2O, 0-	100.00
RANGE PSI, 0-	43.341
CABLE LENGTH	100
DOM	

NYSDEC LaBella

Title: **Mohonk Road Well 5R Log**

Author: **TB**

Date: **29 Nov 2022**

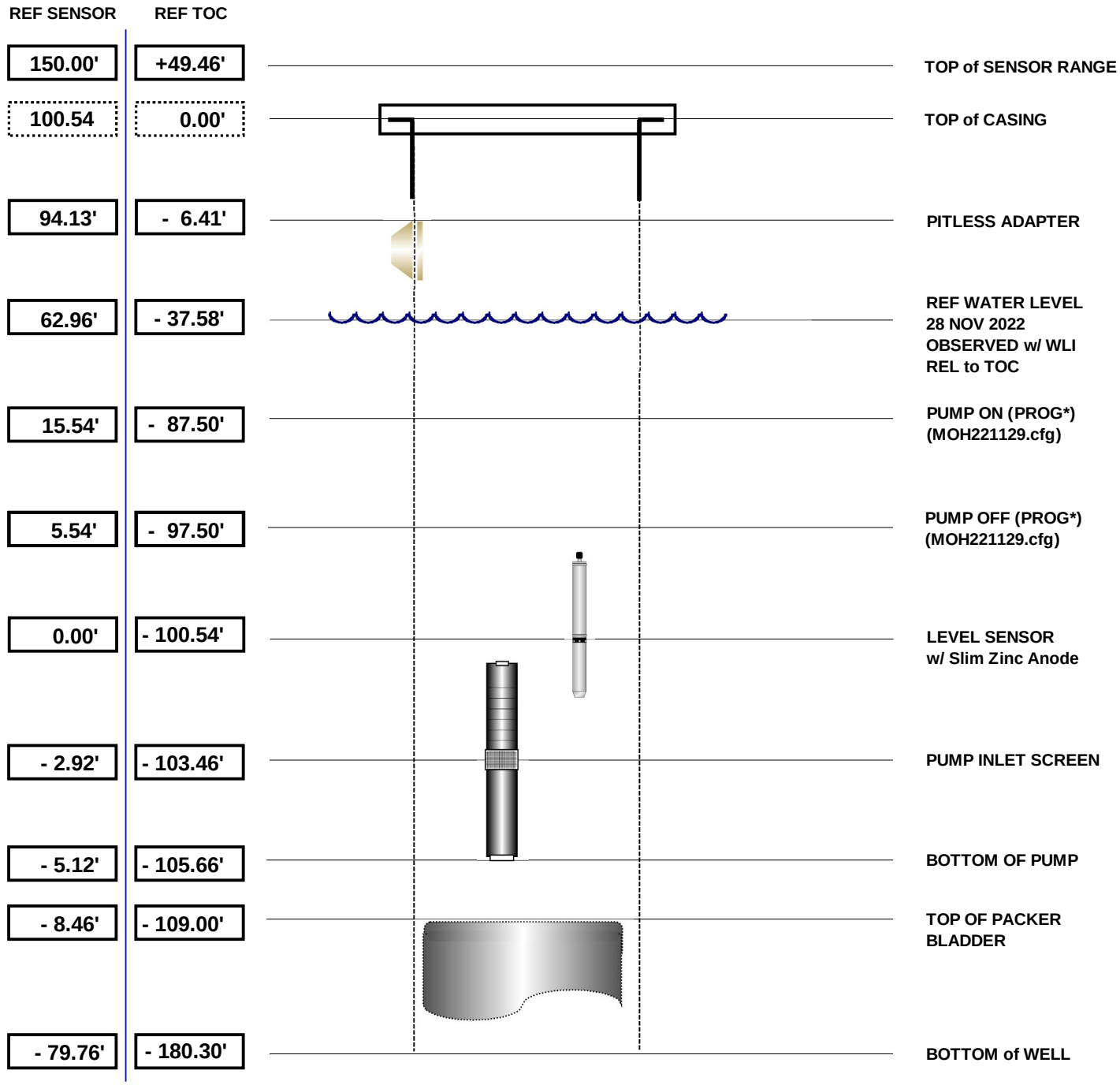
Sheet:

Revision:

NOT TO SCALE

Well 7R Mohonk Road

Aztech Technologies, Inc.



PUMP #	
DIM'S	Pump 1.25" / Line 1.50"
MOTOR #	Franklin 2345132303G
MOTOR	1HP 3PH 3.9A 3450 RPM
VFD	Durapulse GS23-22P0

DWYER LEVEL SENSOR INFO	
PROD LABEL # MBLT-2SC-IVPF-150-170	
SAC. ANODE: AC ZINCS # ACZ-5/8	
RANGE FEET H2O, 0-	150.00
RANGE PSI, 0-	
CABLE LENGTH	170
DOM	

NYSDEC LaBella

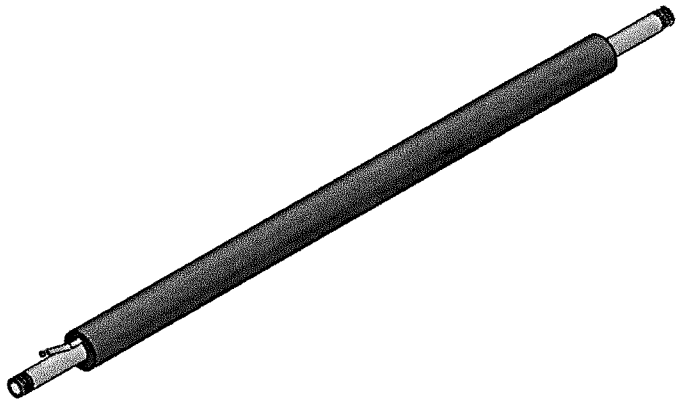
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Author:	TB
Date:	29 Nov 2022
Sheet:	
Revision:	NOT TO SCALE

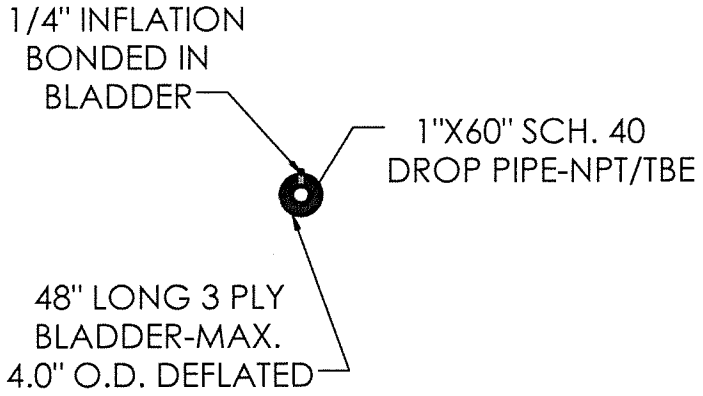
APPENDIX A-3 – Lansas Packer Schematic

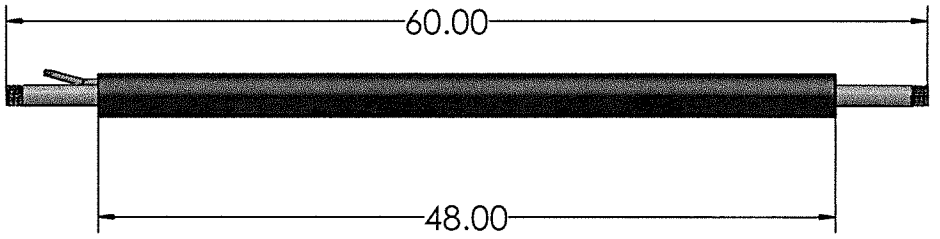
WWW.LANSAS.COM
800-452-4902

999-04: 6" WELL PACKER

REQUIRED INFLATION: 100 PSI
MAXIMUM BACK/TEST PRESSURE: 50 PSI
(1) 1/4" INFLATION BONDED INTO BLADDER
BLADDER: 3 PLY FABRIC REINFORCED
NATURAL RUBBER.







Lansas®

DRAWN BY: DAVID G.
DATE: 06/18/2019

APPROVED BY: NICK B.
DATE: 06/18/2019

THIS DRAWING IS THE SOLE AND EXCLUSIVE PROPERTY OF VANDERLANS AND SONS, INC. (D.B.A. LANSAS PRODUCTS) AND MAY NOT BE USED, DUPLICATED OR DISCLOSED TO OTHERS WITHOUT PRIOR WRITTEN APPROVAL FROM LANSAS PRODUCTS

SAFETY FIRST: ALL PLUGS MUST BE BLOCKED AND BRACED IN PLACE

DRAWING NUMBER/DESCRIPTION:
999-06 KTM

APPENDIX B

SPDES Permit Equivalent

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Water, Bureau of Water Permits
625 Broadway, Albany, New York 12233
www.dec.ny.gov

M E M O R A N D U M
SPDES Permit Equivalent

TO: Charles Gregory, DER

FROM: Alison Wasserbauer, Bureau of Water Permits, DOW

SUBJECT: SPDES Permit Equivalent: Mohonk Road Industrial Plant, DER Site ID# 3-56-023

DRAINAGE BASIN: 13 / 06

DATE: February 9, 2021

In response to your request dated September 29, 2020, attached please find the effluent limitations and monitoring requirements for the above noted remediation discharge.

The discharge consists of treated water from contaminated groundwater. The treatment system consists of a pump and treat system with bag filters and an air stripper.

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent limitations and monitoring requirements, and approval of all engineering submissions. The additional conditions identifies the appropriate DER contact person who will receive all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept appraised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call Alison Wasserbauer at 518-402-8126.

Attachment (Effluent Limitations and Monitoring Requirements)

cc: Region 3 Regional Water Engineer (via email, w/attach)
BWP Section Chief, DOW (via email, w/attach)

EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

OUTFALL	DISCHARGE TYPE	LATITUDE/ LONGITUDE	RECEIVING WATER and CLASS	EFFECTIVE	EXPIRING
001	Treated Remediation Wastewater	41° 48' 56" N 74° 07' 33" W	Coxing Kill and Tribs, Class C(T)	2/9/2021	2/8/2026

The discharges from the treatment facility shall be limited and monitored by the operator as specified below:

Outfall and Parameters Outfall 001	CAS No.	Monthly Ave. Limits	Daily Max Limits	Units	Minimum Monitoring Requirements		FN
					Measurement Frequency	Sample Type	
Flow	NA	Monitor	72,000	GPD	Continuous	Recorder	
pH	NA	-	6.5 – 8.5	SU	Monthly	Grab	
Total Suspended Solids	NA	Monitor	20	mg/L	Monthly	Grab	
Total Dissolved Solids	NA	Monitor	Monitor	mg/L	Monthly	Grab	
Methylene Chloride	75-09-2	Monitor	10	µg/L	Monthly	Grab	
Acetone	67-64-1	Monitor	50	µg/L	Monthly	Grab	
1,1-Dichloroethylene	00075-35-4	Monitor	10	µg/L	Monthly	Grab	
1,1-Dichloroethane	75-34-3	Monitor	10	µg/L	Monthly	Grab	
1,1,1-Trichloroethane	00071-55-6	Monitor	10	µg/L	Monthly	Grab	
1,2-Dichloroethane	00107-06-2	Monitor	10	µg/L	Monthly	Grab	
Carbon Tetrachloride	00056-23-5	Monitor	10	µg/L	Monthly	Grab	
1,2-Dichloroethylene (Total)	540-59-0	Monitor	10	µg/L	Monthly	Grab	
Chloroform	00067-66-3	Monitor	10	µg/L	Monthly	Grab	
Trichloroethene	00079-01-6	Monitor	10	µg/L	Monthly	Grab	
1,4-Dioxane	00123-91-1	Monitor	Monitor	µg/L	Monthly	Grab	
1,1,2-Trichloroethane	00079-00-5	Monitor	10	µg/L	Monthly	Grab	
Benzene	00071-43-2	Monitor	5.0	µg/L	Monthly	Grab	1
Toluene	00108-88-3	Monitor	5.0	µg/L	Monthly	Grab	
Iron, Total	07439-89-6	Monitor	540	µg/L	Monthly	Grab	

Footnotes:

1. Benzene analyses must achieve an MDL of 0.2 µg/L and a PWL of 0.8 µg/L

Additional Conditions:

1. Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Charles Gregory
Division of Environmental Remediation
NYSDEC, 625 Broadway, Albany, New York 12233- 7015,
Tel: 518-402- 9819

With a copy sent to:

Regional Water Engineer, Region 3
100 Hillside Avenue, Suite 1W, White Plains, New York, 10603-2860
Phone: (914) 428-2505

2. Samples and measurements, to comply with the monitoring requirements specified above, must be taken from the effluent side of the final treatment unit prior to discharge to the receiving water body unless otherwise noted above.

3. Only site generated wastewater is authorized for treatment and discharge.

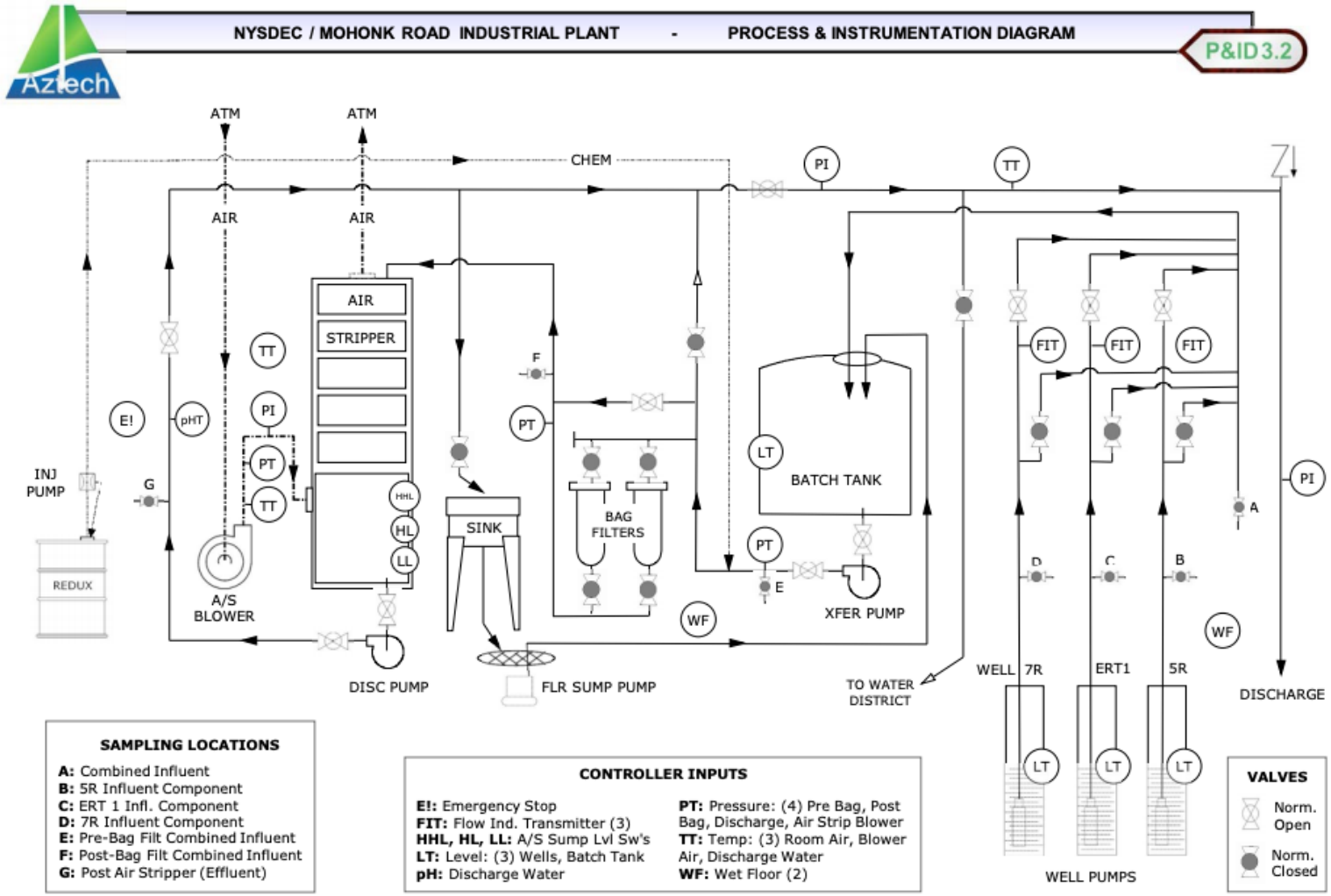
4. Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.

5. Both concentration (mg/l or µg/l) and mass loadings (lbs/day) must be reported to the Department for all parameters except flow and pH.

6. Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.

7. This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.

MONITORING LOCATIONS



APPENDIX C

Monthly SVE Source Area Mass Removal Field Data

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials: 11/29/2022 CA & LG & JG
Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	40, Cloudy	N	TOC	28.08	57.45	25-gal	See purge table	Y	Y	Well locations marked and flagged. Stand up pipes in good condition
SVE-21	40, Cloudy	N	TOC	29.50	55.90	15-gal	See purge table	Y	Y	
SVE-22	40, Cloudy	N	TOC	31.64	55.60	30 gal	See purge table	Y	Y	

Notes:
SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, November 29, 2022

SVE Purge Table Well name:	SVE-19		SVE-21		SVE-22	
	Time (Minutes)	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**
Initial (before purge)	12:15	28.08	10:30	29.50	11:15	31.64
Depth to bottom Dry (after purge)	12:50	56.47	11:09	55.40	11:53	55.15
Recovery	12:51	56.44	11:10	54.90	11:56	54.60
	12:52	56.44	11:11	54.90	11:57	54.60
	12:55	56.44	11:12	54.87	11:58	54.60
	13:04	56.45	11:17	54.78	12:02	54.50
			11:35	54.50	13:02	53.24
			12:05	54.20		
			13:00	53.55		
Volume Purged using 5-gallon buckets	25 gal		15 gal		30 gal	

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials: 12/21/2022 CA & KA
Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	30, Sunny	N	TOC	31.39	56.49	15.5 gal	See purge table	N	Y	
SVE-21	30, Sunny	N	TOC	38.29	55.90	11 gal	See purge table	N	Y	
SVE-22	30, Sunny	N	TOC	33.98	55.60	14 gal	See purge table	N	Y	

Notes:
SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Wednesday, December 21, 2022

SVE Purge Table	SVE-19		SVE-21		SVE-22	
Well name:						
	Time (Minutes)	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**
Initial (before purge)	9:30	31.39	9:00	38.29	9:15	33.98
Depth to bottom Dry (after purge)	10:00	56.49	9:20	55.15	9:30	54.30
Recovery	10:05	56.54	9:25	55.15	9:35	54.30
	10:10	56.51	9:30	55.15	9:40	54.15
	10:15	56.47	9:35	55.15	9:45	54.15
	10:20	56.42	9:40	55.20	9:50	53.99
	10:25	56.36	9:45	54.99	9:55	53.63
	10:30	56.31	9:50	54.92	10:00	53.30
	11:30	56.05	11:30	54.62	11:30	50.43
	12:30	55.81	12:30	54.45	12:30	49.10
Volume Purged using 5-gallon buckets	15.5 gal		11 gal		14 gal	

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: 1/17/2023 - LG & AR

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	27°, Cloudy	N	TOC	28.27	56.49	19.00	See attached sheet	N	Y	
SVE-21	27°, Cloudy	N	TOC	35.20	55.90	12.50	See attached sheet	N	Y	
SVE-22	27°, Cloudy	N	TOC	32.22	55.60	10.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, January 17, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	28.27	35.20	32.22
Depth to bottom Dry (after purge)	56.70	54.76	54.59
5 minutes	56.65	54.70	54.38
10 minutes	56.58	54.60	54.16
15 minutes	56.53	54.54	53.73
20 minutes	56.46	54.45	53.54
25 minutes	56.42	54.40	53.38
30 minutes	56.39	54.35	53.12
90 minutes	55.95	53.74	50.54
Volume Purged using 5-gallon buckets	19 gal	12.5 gal	10 gal

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: LG - 02.22.2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	Cold, Cloudy	N	TOC	37.41	56.49	13-gallons	See attached sheet	Y	Y	
SVE-21	Cold, Cloudy	N	TOC	45.35	55.90	6-gallons	See attached sheet	Y	Y	
SVE-22	Cold, Cloudy	N	TOC	37.36	55.60	12-gallons	See attached sheet	Y	Y	

Notes:
SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Wednesday, February 22, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	37.41	45.35	37.36
Depth to bottom Dry (after purge)	57.10	55.70	54.80
5 minutes	56.45	55.25	54.70
10 minutes	56.45	55.18	54.54
15 minutes	56.39	55.16	54.46
20 minutes	-	55.15	-
25 minutes	-	-	-
30 minutes	56.20	55.14	53.90
60 minutes	-	-	-
Volume Purged using 5-gallon buckets	13 gal	6 gal	12 gal

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: 3/28/2023, NS

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	28.76	56.49	17-gallons	See attached sheet	N	Y	
SVE-21		N	TOC	39.32	55.90	10-gallons	See attached sheet	N	Y	
SVE-22		N	TOC	33.29	55.60	13-gallons	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, March 28, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	28.76	39.32	33.29
Depth to bottom Dry (after purge)	56.35	55.20	54.59
5 minutes	56.28	55.17	54.39
10 minutes	56.23	55.09	54.09
15 minutes	56.17	55.04	53.89
20 minutes	56.10	55.02	53.67
25 minutes	56.05	55.00	53.38
30 minutes	56.0	54.99	53.09
60 minutes	55.67	54.90	52.22
Volume Purged using 5-gallon buckets	17 gal	10 gal	13 gal

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials:

Reviewed by / Date: 4/18/2023

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	50, cloudy	N	TOC	38.88	56.49	13-gallons	See attached sheet	N	Y	
SVE-21	50, cloudy	N	TOC	48.13	55.90	5-gallons	See attached sheet	N	Y	
SVE-22	50, cloudy	N	TOC	37.67	55.60	12-gallons	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, April 18, 2023

SVE Purge Table Well name:	SVE-19	SVE-21	SVE-22
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	38.88	48.13	37.67
Depth to bottom Dry (after purge)	57.15	55.68	55.40
30mins	56.51	55.29	53.55
1 hour	56.38	55.22	52.80
1.5 hours	56.27	55.18	52.06
2 hours	56.18	55.14	51.34
2.5 hours	56.10	55.10	50.62
3 hours	56.01	55.07	49.92
3.5 hours	55.90	55.05	49.24
4 hours	55.81	55.02	48.54
Volume Purged using 5 -gallon buckets	13-gallon	5-gallon	12-gallon

SVE Source Area Mass Removal Field Data Record

Site Name / Location:	NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials:	5/16/2023 NS
Reviewed by / Date:	

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	50, cloudy	N	TOC	35.31	56.49	15-gallons	See attached sheet	N	Y	
SVE-21	50, cloudy	N	TOC	46.75	55.90	5-gallons	See attached sheet	N	Y	
SVE-22	50,cloudy	N	TOC	37.06	55.60	12-gallons	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, May 16, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	35.31	46.75	37.06
Depth to bottom Dry (after purge)	57.01	55.67	56.45
30 mins	56.48	54.37	54.27
1 hour	56.34	54.31	53.91
1.5 hours	56.20	54.27	53.14
2 hours	56.02	54.19	52.36
2.5 hours	55.90	54.14	51.61
3 hours	55.78	54.05	50.85
3.5 hours	55.50	54.02	49.79
4 hours	55.49	54.00	49.39
Volume Purged using 5-gallon buckets	15-gallons	5-gallons	12-gallons

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials: 11/29/2022 CA & LG & JG
Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	40, Cloudy	N	TOC	28.08	57.45	25-gal	See purge table	Y	Y	Well locations marked and flagged. Stand up pipes in good condition
SVE-21	40, Cloudy	N	TOC	29.50	55.90	15-gal	See purge table	Y	Y	
SVE-22	40, Cloudy	N	TOC	31.64	55.60	30 gal	See purge table	Y	Y	

Notes:
SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, November 29, 2022

SVE Purge Table Well name:	SVE-19		SVE-21		SVE-22	
	Time (Minutes)	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**
Initial (before purge)	12:15	28.08	10:30	29.50	11:15	31.64
Depth to bottom Dry (after purge)	12:50	56.47	11:09	55.40	11:53	55.15
Recovery	12:51	56.44	11:10	54.90	11:56	54.60
	12:52	56.44	11:11	54.90	11:57	54.60
	12:55	56.44	11:12	54.87	11:58	54.60
	13:04	56.45	11:17	54.78	12:02	54.50
			11:35	54.50	13:02	53.24
			12:05	54.20		
			13:00	53.55		
Volume Purged using 5-gallon buckets	25 gal		15 gal		30 gal	

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials: 12/21/2022 CA & KA
Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	30, Sunny	N	TOC	31.39	56.49	15.5 gal	See purge table	N	Y	
SVE-21	30, Sunny	N	TOC	38.29	55.90	11 gal	See purge table	N	Y	
SVE-22	30, Sunny	N	TOC	33.98	55.60	14 gal	See purge table	N	Y	

Notes:
SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Wednesday, December 21, 2022

SVE Purge Table	SVE-19		SVE-21		SVE-22	
Well name:						
	Time (Minutes)	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**	**Time (Minutes)**	**Depth to water (ft)**
Initial (before purge)	9:30	31.39	9:00	38.29	9:15	33.98
Depth to bottom Dry (after purge)	10:00	56.49	9:20	55.15	9:30	54.30
Recovery	10:05	56.54	9:25	55.15	9:35	54.30
	10:10	56.51	9:30	55.15	9:40	54.15
	10:15	56.47	9:35	55.15	9:45	54.15
	10:20	56.42	9:40	55.20	9:50	53.99
	10:25	56.36	9:45	54.99	9:55	53.63
	10:30	56.31	9:50	54.92	10:00	53.30
	11:30	56.05	11:30	54.62	11:30	50.43
	12:30	55.81	12:30	54.45	12:30	49.10
Volume Purged using 5-gallon buckets	15.5 gal		11 gal		14 gal	

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: 1/17/2023 - LG & AR

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	27°, Cloudy	N	TOC	28.27	56.49	19.00	See attached sheet	N	Y	
SVE-21	27°, Cloudy	N	TOC	35.20	55.90	12.50	See attached sheet	N	Y	
SVE-22	27°, Cloudy	N	TOC	32.22	55.60	10.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, January 17, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	28.27	35.20	32.22
Depth to bottom Dry (after purge)	56.70	54.76	54.59
5 minutes	56.65	54.70	54.38
10 minutes	56.58	54.60	54.16
15 minutes	56.53	54.54	53.73
20 minutes	56.46	54.45	53.54
25 minutes	56.42	54.40	53.38
30 minutes	56.39	54.35	53.12
90 minutes	55.95	53.74	50.54
Volume Purged using 5-gallon buckets	19 gal	12.5 gal	10 gal

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: LG - 02.22.2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	Cold, Cloudy	N	TOC	37.41	56.49	13-gallons	See attached sheet	Y	Y	
SVE-21	Cold, Cloudy	N	TOC	45.35	55.90	6-gallons	See attached sheet	Y	Y	
SVE-22	Cold, Cloudy	N	TOC	37.36	55.60	12-gallons	See attached sheet	Y	Y	

Notes:
SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Wednesday, February 22, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	37.41	45.35	37.36
Depth to bottom Dry (after purge)	57.10	55.70	54.80
5 minutes	56.45	55.25	54.70
10 minutes	56.45	55.18	54.54
15 minutes	56.39	55.16	54.46
20 minutes	-	55.15	-
25 minutes	-	-	-
30 minutes	56.20	55.14	53.90
60 minutes	-	-	-
Volume Purged using 5-gallon buckets	13 gal	6 gal	12 gal

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: 3/28/2023, NS

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	28.76	56.49	17-gallons	See attached sheet	N	Y	
SVE-21		N	TOC	39.32	55.90	10-gallons	See attached sheet	N	Y	
SVE-22		N	TOC	33.29	55.60	13-gallons	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, March 28, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	28.76	39.32	33.29
Depth to bottom Dry (after purge)	56.35	55.20	54.59
5 minutes	56.28	55.17	54.39
10 minutes	56.23	55.09	54.09
15 minutes	56.17	55.04	53.89
20 minutes	56.10	55.02	53.67
25 minutes	56.05	55.00	53.38
30 minutes	56.0	54.99	53.09
60 minutes	55.67	54.90	52.22
Volume Purged using 5-gallon buckets	17 gal	10 gal	13 gal

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials:

Reviewed by / Date: 4/18/2023

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	50, cloudy	N	TOC	38.88	56.49	13-gallons	See attached sheet	N	Y	
SVE-21	50, cloudy	N	TOC	48.13	55.90	5-gallons	See attached sheet	N	Y	
SVE-22	50, cloudy	N	TOC	37.67	55.60	12-gallons	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, April 18, 2023

SVE Purge Table Well name:	SVE-19	SVE-21	SVE-22
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	38.88	48.13	37.67
Depth to bottom Dry (after purge)	57.15	55.68	55.40
30mins	56.51	55.29	53.55
1 hour	56.38	55.22	52.80
1.5 hours	56.27	55.18	52.06
2 hours	56.18	55.14	51.34
2.5 hours	56.10	55.10	50.62
3 hours	56.01	55.07	49.92
3.5 hours	55.90	55.05	49.24
4 hours	55.81	55.02	48.54
Volume Purged using 5 -gallon buckets	13-gallon	5-gallon	12-gallon

SVE Source Area Mass Removal Field Data Record

Site Name / Location:	NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials:	5/16/2023 NS
Reviewed by / Date:	

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19	50, cloudy	N	TOC	35.31	56.49	15-gallons	See attached sheet	N	Y	
SVE-21	50, cloudy	N	TOC	46.75	55.90	5-gallons	See attached sheet	N	Y	
SVE-22	50,cloudy	N	TOC	37.06	55.60	12-gallons	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, May 16, 2023

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	**Depth to water (ft)**	**Depth to water (ft)**	**Depth to water (ft)**
Initial (before purge)	35.31	46.75	37.06
Depth to bottom Dry (after purge)	57.01	55.67	56.45
30 mins	56.48	54.37	54.27
1 hour	56.34	54.31	53.91
1.5 hours	56.20	54.27	53.14
2 hours	56.02	54.19	52.36
2.5 hours	55.90	54.14	51.61
3 hours	55.78	54.05	50.85
3.5 hours	55.50	54.02	49.79
4 hours	55.49	54.00	49.39
Volume Purged using 5-gallon buckets	15-gallons	5-gallons	12-gallons

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: NS - 6/20/2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	38.85'	56.49	15.00	See attached sheet	N	Y	
SVE-21		N	TOC	45.30'	55.90	6.00	See attached sheet	N	Y	
SVE-22		N	TOC	39.95'	55.60	13.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, June 20, 2023

SVE Purge Table Well name:	SVE-19	SVE-21	SVE-22
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	38.85	45.30	39.95
Depth to bottom Dry (after purge)	56.35	54.45	55.45
30mins	55.83	54.02	54.83
1 hour	55.21	53.78	54.31
1.5 hours	55.63	53.61	53.71
2 hours	54.12	53.55	53.00
2.5 hours	53.83	53.39	52.62
3 hours	53.67	53.23	52.27
3.5 hours	53.45	53.18	52.02
4 hours	53.07	53.01	51.83
Volume Purged using 5-gallon buckets	15-gallons	6-gallons	13-gallons

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: NS - 7/11/2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	23.74	56.49	27	See attached sheet	N	Y	
SVE-21		N	TOC	24.68	55.90	21	See attached sheet	N	Y	
SVE-22		N	TOC	25.20	55.60	20	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, July 11, 2023

SVE Purge Table Well name:	**SVE-19**	**SVE-21**	**SVE-22**
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	23.74	24.68	25.2
Depth to bottom Dry (after purge)	57.15	55.68	55.40
30mins	50.23	54.17	46.85
1 hour	45.7	53.74	41.9
1.5 hours	42.12	52.75	37.13
2 hours	39.1	51.71	33.64
2.5 hours	36.89	50.95	30.59
3 hours	34.8	50.3	28.25
3.5 hours	34.21	49.65	26.12
4 hours	31.62	48.56	25.43
Volume Purged using 5-gallon buckets	27-gallons	21-gallons	20-gallons

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: NS - 8/29/2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	36.71'	56.49	12.00	See attached sheet	N	Y	
SVE-21		N	TOC	46.18'	55.90	7.00	See attached sheet	N	Y	
SVE-22		N	TOC	37.85'	55.60	10.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, August 29, 2023

SVE Purge Table Well name:	**SVE-19**	**SVE-21**	**SVE-22**
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	36.71	46.18	37.85
Depth to bottom Dry (after purge)	56.45	55.85	54.32
30mins	56.53	55.82	54.08
1 hour	56.44	55.78	54.05
1.5 hours	56.4	55.75	53.01
2 hours	56.37	55.72	52.62
2.5 hours	56.28	55.71	51.84
3 hours	56.15	55.65	51.4
3.5 hours	56.14	55.61	49.73
4 hours	56.06	55.59	49.51
Volume Purged using 5-gallon buckets	12	7	10

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: NS - 9/11/2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	42.72'	56.49	10.00	See attached sheet	N	Y	
SVE-21		N	TOC	51.02'	55.90	3.00	See attached sheet	N	Y	
SVE-22		N	TOC	42.15'	55.60	8.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Monday, September 11, 2023

SVE Purge Table Well name:	**SVE-19**	**SVE-21**	**SVE-22**
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	42.72'	51.02'	42.15'
Depth to bottom Dry (after purge)	55.49'	55.12'	54.43'
30mins	55.48'	55.19'	54.38'
1 hour	55.54'	55.13'	54.42'
1.5 hours	55.50'	55.12'	54.38'
2 hours	55.48'	55.10'	54.35'
2.5 hours			
3 hours			
3.5 hours			
4 hours			
Volume Purged using 5-gallon buckets	10	3	8

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: 10/17/2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	37.59	56.49	8.00	See attached sheet	N	Y	
SVE-21		N	TOC	37.81	55.90	11.00	See attached sheet	N	Y	
SVE-22		N	TOC	38.03	55.60	11.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, October 17, 2023

SVE Purge Table Well name:	SVE-19	SVE-21	SVE-22
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	37.59	37.81	38.03
Depth to bottom Dry (after purge)	49.55	54.98	54.97
30mins	49.4	54.88	54.31
1 hour	49.27	54.76	53.74
1.5 hours	49.12	54.65	53.13
2 hours	48.98	54.56	52.52
2.5 hours	48.91	54.49	52.03
3 hours	48.74	54.43	51.4
3.5 hours	48.64	54.38	50.82
4 hours	48.47	54.31	50.2
Volume Purged using 5-gallon buckets	8	11	11

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: 11/9/2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	37.31	56.49	11.50	See attached sheet	N	Y	
SVE-21		N	TOC	37.24	55.90	5.00	See attached sheet	N	Y	
SVE-22		N	TOC	38.80	55.60	11.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Thursday, November 9, 2023

SVE Purge Table Well name:	**SVE-19**	**SVE-21**	**SVE-22**
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	37.31	37.24	38.8
Depth to bottom Dry (after purge)	55.54	43.42	54.04
30mins	55.26	42.45	53.81
1 hour	55.06	41.66	53.61
1.5 hours	54.92	41.12	53.46
2 hours	54.74	40.57	53.31
2.5 hours	54.57	40.10	53.17
3 hours	54.39	39.75	53.02
3.5 hours	54.21	39.41	52.92
4 hours	54.10	39.21	52.85
Volume Purged using 5-gallon buckets	11.5-gallons	5-gallons	11-gallons

SVE Source Area Mass Removal Field Data Record

Site Name / Location: NYSDEC Mohonk, High Falls, NY

Inspection Date / Initials: 12/7/2023

Reviewed by / Date:

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth to Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	30.89'	56.49	18.00	See attached sheet	N	Y	
SVE-21		N	TOC	35.10'	55.90	22.00	See attached sheet	N	Y	
SVE-22		N	TOC	26.68'	55.60	15.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Thursday, December 7, 2023

SVE Purge Table Well name:	**SVE-19**	**SVE-21**	**SVE-22**
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	30.89	35.10	26.68
Depth to bottom Dry (after purge)	56.55 at 10:50am	55.05 at 10:22am	54.61 at 10:00am
30mins	56.11	54.43	53.59
1 hour	55.70	53.85	52.37
1.5 hours	55.20	52.38	51.49
2 hours	54.81	52.05	49.92
2.5 hours	54.40	51.96	48.70
3 hours	54.00	51.49	47.62
3.5 hours	53.68	51.03	46.65
4 hours	53.20	50.62	45.71
Volume Purged using 5-gallon buckets	18-gallons	22-gallons	15-gallons

SVE Source Area Mass Removal Field Data Record

Site Name / Location:	NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials:	01/10/2024
Reviewed by / Date:	

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	26.42	56.26	19.00	See attached sheet	N	Y	
SVE-21		N	TOC	39.32	54.70	10.25	See attached sheet	N	Y	
SVE-22		N	TOC	33.73	53.94	13.50	See attached sheet	N	Y	

Notes:
SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Wednesday, January 10, 2024

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	26.42	39.32	33.73
Depth to bottom Dry (after purge)	56.26	54.70	53.94
30 mins	56.25	54.50	52.99
1 hour	56.14	54.15	51.86
1.5 hours	56.00	53.82	49.68
2 hours	55.80	53.55	49.60
2.5 hours	55.57	53.18	48.38
3 hours	55.51	52.87	47.23
3.5 hours	55.36	52.54	46.08
4 hours	55.19	52.26	44.89
Volume Purged using 5-gallon buckets	19	10.25	13.5

SVE Source Area Mass Removal Field Data Record

Site Name / Location:	NYSDEC Mohonk, High Falls, NY
Inspection Date / Initials:	02/06/2024
Reviewed by / Date:	

SVE Well Location ID	Description of Weather Conditions	Measurement Reference Point Marked (Y/N)	Measurement Reference Point (TOC or TOR?)	Depth To Water (ft.)	Depth to BOW (ft.)	Volume Purged until Dry (gallons)	Groundwater Level Recovery following Purging (Y/N). If Yes (ft./min)	Quarterly Sampling of SVE Wells Completed (SVE 19, 21, or 22) (Y/N)	Purge Water Containerized and Treated (Y/N)	Comments
SVE-19		N	TOC	25.58	57.16	17.00	See attached sheet	N	Y	
SVE-21		N	TOC	44.82	55.43	7.00	See attached sheet	N	Y	
SVE-22		N	TOC	32.17	55.13	12.00	See attached sheet	N	Y	

Notes:

SVE = Soil Vapor Extraction Well
TOC = Top of Casing
TOR = Top of Riser
BOW = Bottom of Well
min = minute
ft. = feet

Tuesday, February 6, 2024

SVE Purge Table Well Name:	SVE-19	SVE-21	SVE-22
Time (minutes)	Depth to water (ft)	Depth to water (ft)	Depth to water (ft)
Initial (before purge)	25.58	44.82	32.17
Depth to bottom Dry (after purge)	57.16	55.43	55.13
30 mins	56.05	54.86	53.86
1 hour	55.91	54.79	53.26
1.5 hours	55.81	54.75	52.59
2 hours	55.68	54.70	51.85
2.5 hours	55.61	54.65	51.17
3 hours	55.35	54.61	50.52
3.5 hours	55.21	54.56	49.81
4 hours	55.09	54.53	49.06
Volume Purged using 5-gallon buckets	17	7	12

APPENDIX D

Pilot Test Groundwater Sampling Field Sheets

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
WELL ID: MW-1B
TIME START: 1229 END: 1330
SAMPLE I.D. NUMBER: 356023-MW1B
SAMPLING EVENT: Jan 22
JOB NUMBER: 7772210116.02.****
DATE: 1/20/22
SAMPLERS: I. Mosc

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 49.63 FT
FINAL DEPTH TO WATER: 56.64 FT
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch}): 2.57 GAL
3" = 0.367
TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter): 3.64 GAL

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

WELL DEPTH (TOR): 102' FT
SCREEN LENGTH: UNK FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.70
- Initial Rate may too high Big Drawdown

PROTECTIVE CASING STICKUP (FROM GROUND): ~1.5' FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: — PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: 0.09 FT
WELL DIAMETER: 3" IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓	—	—
CASING	✓	—	—
LOCKED	✓	—	—
COLLAR	✓	—	—

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1229	52.22	250	10.11	0.879	7.07	4.77	38.4	50	95'	50	Rate Starts too high - Dial back - Big draw-down
1234	52.80	250	9.82	0.894	6.87	2.45	140	15	95'	15	
1239	53.50	250	9.93	0.892	6.85	2.12	80.5	35	95'	35	
1244	53.97	250	9.92	0.893	6.85	1.95	39.5	53	95	53	
1249	54.35	250	9.82	0.894	6.85	2.05	26.4	65	95	65	Ambient Temp Dropping
1254	54.54	250	9.89	0.890	6.85	2.20	24.8	77	95	77	Put cardboard under flowcell to insulate
1259	54.89	250	9.45	0.891	6.84	2.51	20.6	84	95	84	
1304	55.30	250	9.81	0.891	6.85	2.55	22.1	92	95	92	
1309	55.80	250	10.01	0.892	6.85	2.51	17.3	100	95	100	
1314	56.25	250	9.86	0.895	6.77	2.55	17.8	111	95	111	Lower Rate
1319	56.35	150	9.75	0.898	6.80	2.58	14.8	110	95	110	
1324	56.49	150	9.60	0.893	6.80	2.61	13.7	113	95	113	
1329	56.64	150	9.58	0.895	6.78	2.62	13.5	115	95	115	
1330	Sample										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER N/A

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[ ] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other VOCs TCL list + 8260C	8010	HCL, Ice	3 VOAs	[x]
[x] Other 1,4 Dioxane 8270D SIM	8270C	Ice	2 1L Amber	[x]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 3.64

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joseph Moser

LOCATION SKETCH

12500
1500
14000

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
WELL ID: MW4
TIME START: 14.00 END: 14.35
SAMPLE I.D. NUMBER: 356023-MW4
SAMPLING EVENT: NYS Mohonk
JOB NUMBER: 7772210116.02.****
DATE: 1-20-2022
SAMPLERS: J. Spatafore

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 5.36 FT
FINAL DEPTH TO WATER: 9.17 FT
DRAWDOWN VOLUME: 0.6096 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 2.5 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
[X] TOP OF WELL RISER
[X] TOP OF PROTECTIVE CASING
[ ] OTHER _____

WELL DEPTH (TOR): 21.5 FT
SCREEN LENGTH: UNKNOWN FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: ~~2.5/0.6~~ JS 0.6096/2

PROTECTIVE CASING STICKUP (FROM GROUND): 2.00 FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: — PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: 0.0 FT
WELL DIAMETER: 2 IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓	✓	
LOCKED		✓	
COLLAR	✓		

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
14.00	7.05	300	9.39	1.27	6.97	3.10	28.8	-74	18	188	Began purge
14.05	7.99	200	9.17	1.94	6.89	3.23	32.6	-70		195	
14.10	8.43	200	9.19	1.28	6.88	3.11	28.4	-69		198	
14 15	8.76	120	9.28	1.28	6.87	3.01	24.1	-69		200	
14:20	9.15	120	9.21	1.27	6.87	2.85	22.7	-69		202	
14:25	9.16	100	9.14	1.27	6.86	2.74	20.5	-69		200	
14:30	9.18	100	9.19	1.26	6.86	2.88	19.5	-69		196	
14.35	9.17	100	9.23	1.26	6.86	2.93	19.0	-69		193	Sampled

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[ ] QED BLADDER
[ ] SIMCO BLADDER
[X] ~~GEOPUMP~~ Peristaltic JS
[ ] OTHER _____

TYPE OF TUBING
[ ] TEFLON OR TEFLON LINED
[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

TYPE OF PUMP MATERIAL
[ ] POLYVINYL CHLORIDE
[ ] STAINLESS STEEL
[X] OTHER HDPE tubing

TYPE OF BLADDER MATERIAL
[ ] TEFLON
[ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[X] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[X] Other 1,4 Dioxane	~~6010~~ JS 6010C	~~8270D SIM~~		[X] 1,4 Dioxane
[ ] Other				[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

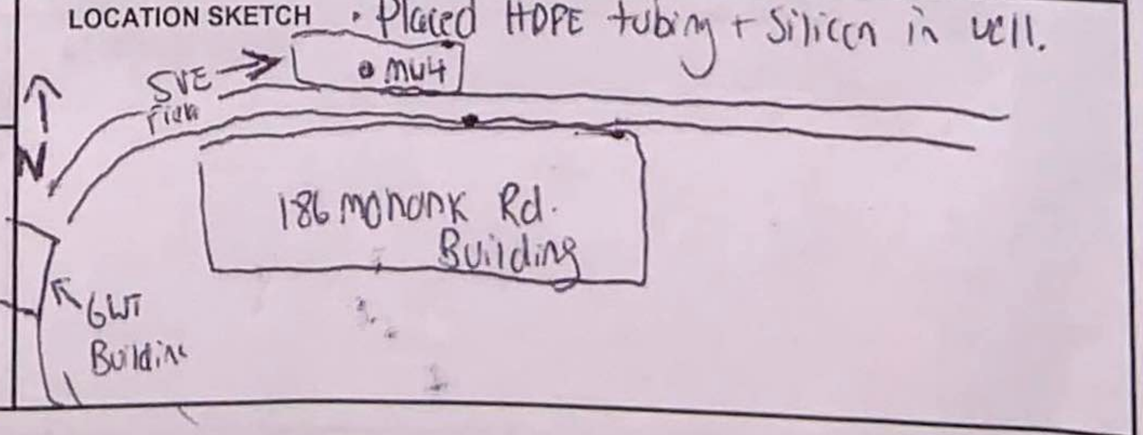
PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 2.5

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Spatafore

LOCATION SKETCH



C:\Users\Joe.Spatafore\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\EBJ5PQ7Z\Low Flow GW Purge Form

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW5B
WELL ID: MW-5B
SAMPLING EVENT: Jan 22
TIME START 1034 END 1125
JOB NUMBER: 7772210116.02.****
DATE: 1/20/22
SAMPLERS: I. Moser

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 29.0 FT
FINAL DEPTH TO WATER: 29.30 FT
DRAWDOWN VOLUME: 0.45 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 2.34 GAL (1.5 (6 inch))
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

WELL DEPTH (TOR): 36.5 FT
SCREEN LENGTH: N/A open bore FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.19

PROTECTIVE CASING STICKUP (FROM GROUND): FT
PID AMBIENT AIR: – PPM
PID WELL MOUTH: – PPM
PRESSURE TO PUMP: – PSI
REFILL TIMER SETTING: –

PROTECTIVE CASING / WELL DIFFERENCE: N/A FT
WELL DIAMETER: 2" IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

DISCHARGE TIMER SETTING: –

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1034	29.18	150	10.00	0.587	7.12	6.19	573	-15	35	-18	Pump starts fast - ~~back~~ to 150 ml/min
1039	29.15	150	9.60	0.602	7.08	4.50	355	-17	35	-17	
1044	29.15	150	9.44	0.604	7.10	4.23	340	-11	35	-11	
1049	29.15	150	9.35	0.605	7.05	4.23	275	2	35	2	
1054	29.19	200	9.90	0.605	7.01	3.92	175	20	35	20	increase rate
1059	29.23	200	10.34	0.611	7.08	4.05	71.7	43	35	43	
1104	29.25	200	10.37	0.614	7.08	4.30	33.1	61	35	61	
1109	29.27	200	10.41	0.617	7.07	4.48	20.1	74	35	74	
1114	29.29	200	10.35	0.620	7.13	4.50	9.5	79	35	79	
1119	29.30	200	10.41	0.622	7.16	4.60	9.4	82	35	82	
1124	29.30	200	10.45	0.623	7.18	4.59	9.2	87	35	87	
1125	Sample										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[ ] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other 1,4 Dioxane 8270DSIM	~~8010~~	ICE	2 1L Amber	[x]
[x] Other VOC TCL list 8260C	~~8010C~~	HCL, ICE	2 VOA	[x]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 2.34

NOTES

~~All Equipment used either dedicated or decomned prior to arrival on site. No rinseate/ field blank required.~~

SIGNATURE: Isaac Murr

LOCATION SKETCH

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3000
6000

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
WELL ID: MW-6B
TIME START: 11:20 END: 12:05
SAMPLE I.D. NUMBER: 356023-MW6B
SAMPLING EVENT: NYS Mohonk
JOB NUMBER: 7772210116.02.****
DATE: 1-20-2022
SAMPLERS: J. Spatafore

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 67.70 FT
FINAL DEPTH TO WATER: 67.94 FT
DRAWDOWN VOLUME: 0.156 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 2.00 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
[ ] TOP OF WELL RISER
[X] TOP OF PROTECTIVE CASING
[ ] OTHER _____

WELL DEPTH (TOR): 103.00 FT
SCREEN LENGTH: UNKNOWN FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.156 / 2.00

PROTECTIVE CASING STICKUP (FROM GROUND): 2.35 FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: — PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: 0.40 FT
WELL DIAMETER: 4 IN

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
11:20	67.90	200	9.50	0.843	7.23	3.55	15.5	-87	85	179	
11:25	68.05	200	9.89	0.861	7.29	3.03	18.0	-96		166	
11:30	68.03	200	10.16	0.869	7.30	2.31	16.6	-91		157	
11:35	68.00	200	10.18	0.877	7.32	2.63	12.6	-91		152	
11:40	67.99	200	9.96	0.880	7.33	2.75	6.1	-92		152	
11:45	67.94	200	9.75	0.879	7.34	2.94	4.5	-93		149	
11:50	67.94	180	9.60	0.876	7.35	3.08	4.2	-93		149	
11:55	67.94	180	9.46	0.875	7.36	2.75	3.4	-93		147	
12:00	67.94	180	9.37	0.869	7.36	2.88	3.7	-94		147	
12:05	67.94	180	9.45	0.869	7.35	2.75	3.5	-93		140	Sampled

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[ ] QED BLADDER
[ ] SIMCO BLADDER
[x] GEOPUMP

TYPE OF TUBING
[ ] TEFLON OR TEFLON LINED
[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

TYPE OF PUMP MATERIAL
[ ] POLYVINYL CHLORIDE
[X] STAINLESS STEEL
[ ] OTHER _____

TYPE OF BLADDER MATERIAL
[ ] TEFLON
[ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[X] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[X] Other 1,4 Dioxane	~~6010~~ 8270D SIM 6010C	2 x 1 L	non-preserved	[X] 1,4 Dioxane
[ ] Other				[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 2.00

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Spatafore

LOCATION SKETCH



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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW8B @1535
WELL ID: MW-8B
SAMPLING EVENT: Jan 22'
DATE: 1/18/21
TIME: START 1450 END 1535
JOB NUMBER: 7772210116.02.****
SAMPLERS: I. Moses

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

INITIAL DEPTH TO WATER	28.80 FT	WELL DEPTH (TOR)	~100 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	Flush FT
FINAL DEPTH TO WATER	28.87 FT	SCREEN LENGTH	UNK FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	0.1105 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	0.1045	PID WELL MOUTH	— PPM
TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	9,000 mL x 0.00026 = 2.34 gal OK			PRESSURE TO PUMP	— PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	— FT	
WELL DIAMETER	6 IN	
WELL INTEGRITY:	YES	NO / N/A
CAP	✓	—
CASING	✓	—
LOCKED	✓	—
COLLAR	✓	—
DISCHARGE TIMER SETTING	—	

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1450	28.80	200	8.50	0.493	8.60	1.46	0.0	-65	95 (Start Purging)	-68	
1455	28.84	200	8.15	0.499	6.84	0.95	0.0	-93	95	-93	
1500	28.85	200	7.72	0.503	7.23	0.40	0.0	-136	95	-136	
1505	28.85	200	7.45	0.506	7.51	0.20	0.0	-156	95	-156	
1510	28.85	200	7.77	0.505	7.61	0.10	0.0	-164	95	-164	
1515	28.86	200	7.80	0.508	7.59	0.00	0.0	-165	95'	-165	
1520	28.86	200	8.30	0.508	7.69	0.00	0.0	-174	95'	-174	
1525	28.87	200	8.34	0.508	7.75	0.00	0.0	-180	95'	-180	
1530	28.87	200	8.30	0.507	7.77	0.00	0.0	-182	95'	-182	
1535	Sample										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[ ] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[✓] Other 8260C TCL list	~~6010~~	Ice, HCl	2 X 0.45	[✓]
[✓] Other 8270D 1,4 Dioxane	~~6010C~~	Ice	2 1L Amber	[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO

NUMBER OF GALLONS GENERATED: 2.34

NOTES

~~All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required~~

SIGNATURE: _____

LOCATION SKETCH

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW9B
WELL ID: MW-9B
SAMPLING EVENT: Jan 22
DATE: 1/19/22
TIME START: 0913 END: 0955
JOB NUMBER: 7772210116.02.****
SAMPLERS: E. Moser

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 17.35 FT
FINAL DEPTH TO WATER: 17.48 FT
DRAWDOWN VOLUME: 0.195 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 2.34 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

WELL DEPTH (TOR): 145 FT
SCREEN LENGTH: Unk FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.083

PROTECTIVE CASING STICKUP (FROM GROUND): Flush FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: — PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: — FT
WELL DIAMETER: 6 IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
0913	17.50	200	11.93	0.484	12.06	11.10	11.3	-104	135	-104	Rate very high @ Startup - Turbid @ 200 ml/min
0918	17.46	200	11.58	0.325	10.91	0.42	13.7	-132	135	-132	
0923	17.47	200	11.20	0.352	9.12	0.20	10.9	-90	135	-90	
0928	17.47	200	10.41	0.320	8.45	0.10	8.5	-88	135	-88	
0933	17.47	200	10.09	0.299	8.11	0.05	7.7	-80	135	-80	Temp dropping, Insulate Hot bar from ground w/ card board.
0938	17.48	200	9.78	0.300	7.94	0.00	4.8	-74	135	-74	
0943	17.48	200	9.58	0.304	7.84	0.00	4.3	-71	135	-71	
0948	17.48	200	9.50	0.305	7.78	0.00	3.8	-71	135	-71	
0953	17.48	200	9.48	0.307	7.77	0.00	3.6	-71	135	-71	
0955	Sample										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER N/A

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[ ] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other 8260C TCL list	~~6010~~	ICE, HCl	2 VOA	[x]
[x] Other 8270D SIM, 1,4 Dioxane	6010C	ICE	2 1L Amber	[x]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 2.34

NOTES

~~All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required~~

SIGNATURE: [signature]

LOCATION SKETCH

Cased 95-145

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
WELL ID: MW-10B
TIME START: 09:30 END: 10:10
SAMPLE I.D. NUMBER: MW-10B
SAMPLING EVENT: NYS Mohonk
JOB NUMBER: 7772210116.02.****
DATE: 1-19-2022
SAMPLERS: J. Spatafore

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 25.19 FT
FINAL DEPTH TO WATER: 25.54 FT
DRAWDOWN VOLUME: 0.525 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 6 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
[X] TOP OF WELL RISER
[ ] TOP OF PROTECTIVE CASING
[ ] OTHER _____

WELL DEPTH (TOR): 100 FT (Reported)
SCREEN LENGTH: unknown FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.525 : 6

PROTECTIVE CASING STICKUP (FROM GROUND): 1.20 FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: — PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: N/A FT
WELL DIAMETER: 6 IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

DISCHARGE TIMER SETTING: N/A

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
09:30 ~~+30~~	25.58	450	5.51	0.241	5.24	11.84	206	5	90	112	Began purge
09:35	25.58	400	7.33	0.267	5.90	10.80	48.1	-21	|	109	
09:40	25.79	325	7.22	0.264	6.02	10.02	45.0	-24	|	103	
09:45	25.85	325	7.49	0.261	6.05	8.96	33.3	-29	|	108	
09:50	26.15	300	7.30	0.260	6.07	8.32	31.2	-30	|	112	
09:55	26.10	300	7.28	0.258	6.08	7.93	28.4	-30	|	111	
10:00	25.58	300	7.18	0.258	6.07	7.66	26.5	-30	|	114	
10:05	25.54	300	7.19	0.258	6.07	7.26	27.7	-30	|	115	
10:10	25.54	300	7.18	0.258	6.07	7.14	27.4	-30	|	115	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[ ] QED BLADDER
[ ] SIMCO BLADDER
[x] GEOPUMP

TYPE OF TUBING
[ ] TEFLON OR TEFLON LINED
[X] HIGH DENSITY POLYETHYLENE
[ ] OTHER _____

TYPE OF PUMP MATERIAL
[ ] POLYVINYL CHLORIDE
[X] STAINLESS STEEL
[ ] OTHER _____

TYPE OF BLADDER MATERIAL
[ ] TEFLON
[ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B 8260	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[X] Other 1,4-Dioxane	~~6010~~ 8270D SIM 6010C	2x Liters	non preserved	[ ]
[ ] Other				[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 6

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Spatafore

LOCATION SKETCH

- MS/MSD taken at this location
- DUP-01 taken at this location
- New Hope tubing put down well. 25ft of tubing had to be cut off due to kink that developed.
- Transducer taken out of well during sampling and put back down well afterwards

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT	NYS Mohonk Road Industrial Site	SAMPLE I.D. NUMBER	356023-MW11B
WELL ID:	MW-11B	SAMPLING EVENT	Jan 22
TIME	START 0839 END 0910	JOB NUMBER	7772210116.02.****
DATE	1-20-22	SAMPLERS	I. Moser

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [x] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

INITIAL DEPTH TO WATER	27.35 FT	WELL DEPTH (TOR)	181 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	1.6 FT
FINAL DEPTH TO WATER	27.39 FT	SCREEN LENGTH	open bore hole FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	0.06 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	0.03	PID WELL MOUTH	— PPM
TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	1.95 GAL (1.5 (6in))			PRESSURE TO PUMP	— PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	NA FT		
WELL DIAMETER	6" IN		
DISCHARGE TIMER SETTING	—		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓	—	—
CASING	✓	—	—
LOCKED	✓	—	—
COLLAR	✓	—	—

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
0839	27.36	250	8.51	0.555	5.94	2.71	82.1	112		112	
0841	27.38	250	9.31	0.630	6.61	0.12	82.4	-87		-87	
0849	27.39	250	9.27	0.630	6.86	0.01	23.8	-116		-116	
0854	27.39	250	9.40	0.627	6.98	0.00	13.8	-124		-124	
0859	27.39	250	9.02	0.631	7.08	0.00	9.7	-131		-131	
0904	27.39	250	9.12	0.625	7.11	0.00	9.2	-132		-132	
0909	27.39	250	9.20	0.629	7.14	0.00	9.8	-133		-133	
0910	sample										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER N/A

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[ ] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other VOCs TCL list + 8260C	6010	HCL, Ice (4°C)	3 Vials	[x]
[x] Other 1,4 Dioxane 8270D SIM	6010C	Ice (4°C)	2 1L Amber	[x]
[ ] Other _____				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED (YES) NO

NUMBER OF GALLONS GENERATED 1.95

NOTES

~~All Equipment used either dedicated or decanned prior to arrival on site. No rinseate/ field blank required~~

SIGNATURE: Joseph Moser

LOCATION SKETCH

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW12B
WELL ID: MW-12B
SAMPLING EVENT: NYS Mohonk
DATE: 1-20-22
TIME START: 08:50 END: 09:30
JOB NUMBER: 7772210116.02.****
SAMPLERS: J. Spatafore

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

INITIAL DEPTH TO WATER	8.29 FT	WELL DEPTH (TOR)	200 (reported) FT	PROTECTIVE CASING STICKUP (FROM GROUND)	0.1 FT
FINAL DEPTH TO WATER	8.38 FT	SCREEN LENGTH	open FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	0.135 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	0.135 / 3.12	PID WELL MOUTH	— PPM
TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	3.12 GAL			PRESSURE TO PUMP	— PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	N/A FT
WELL DIAMETER	6 IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED		✓	
COLLAR	✓		

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
08:50	8.35	300	10.62	0.570	6.47	2.37	27.8	-50	190	52	Began purge
08:55	8.35	300	10.37	0.562	6.75	1.69	20.7	-63	|	89	
09:00	8.36	300	10.30	0.557	6.83	1.35	18.8	-67	|	111	
09:05	8.36	300	10.46	0.554	6.86	1.09	14.2	-69	|	126	
09:10	8.36	300	10.45	0.554	6.88	0.96	9.1	-69	|	136	
09:15	8.37	300	10.38	0.553	6.88	0.97	6.0	-70	|	139	
09:20	8.38	300	10.29	0.553	6.88	0.89	5.8	-70	|	141	
09:25	8.38	300	10.33	0.554	6.88	0.84	5.6	-70	|	142	
09:30	8.38	300	10.34	0.553	6.88	0.79	5.4	-70	|	142	Sampled

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [X] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[X] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[X] Other 1,4-Dioxane	~~6010~~ 8270D SIM	2x 1L	non-preserved	[X] 1,4 Dioxane
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO

NUMBER OF GALLONS GENERATED: 3.12

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Spatafore

LOCATION SKETCH

- HDPE tubing already in well, put back in well after sampling.

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW14B
WELL ID: MW-14B
SAMPLING EVENT: NYS Mohonk
DATE: 1-18-2022
TIME START: 15:50 END: 16:55
JOB NUMBER: 7772210116.02.****
SAMPLERS: J. Spatafora

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [x] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

INITIAL DEPTH TO WATER: 5.22 FT
FINAL DEPTH TO WATER: 5.85 ~~1.55~~ FT
DRAWDOWN VOLUME: 0.63 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 5 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL DEPTH (TOR): 155 FT
SCREEN LENGTH: unknown FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.63 : 5

PROTECTIVE CASING STICKUP (FROM GROUND): N/A FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: N/A PSI
REFILL TIMER SETTING: N/A

PROTECTIVE CASING / WELL DIFFERENCE: 0.3 FT
WELL DIAMETER: 6 IN
DISCHARGE TIMER SETTING: N/A

WELL INTEGRITY:	YES	NO	N/A
CAP	✓	—	—
CASING	✓	—	—
LOCKED	✓	—	—
COLLAR	✓	—	—

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
15:50	5.84	~~400~~	11.74	0.495	5.86	1.42	14.6	~~55~~ -240	145	-25	Began purging
15:55	5.85	150	11.24	0.496	6.25	0.95	11.5	-34	|	-45	Slight odd
16:00	5.25	150	10.94	0.496	6.38	0.80	4.0	-41	|	-53	
16:05	5.85	150	11.04	0.496	6.48	0.67	0.0	-46	|	-56	
16:10											Tubing fell off
16:30	6.75	400	11.15	0.497	6.75	3.9	33.8	-60	145	-33	Restarted Pump
16:35	5.85	300	10.87	0.495	6.79	2.40	12.1	-61	|	-36	
16:40	5.85	300	10.62	0.494	6.86	0.97	1.2	-65	|	-46	
16:45	5.85	300	10.56	0.494	6.89	0.72	0.7	-67	|	-52	
16:50	5.85	300	10.56	0.494	6.93	0.70	0.6	-68	|	-56	
16:55	5.85	300	10.49	0.494	6.94	0.70	0.7	-69	|	-56	Sampled

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] ~~GEOPUMP~~ JS ~~peristaltic~~ "Geotech" Geosub pump
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other 1,4-Dioxane	JS ~~6010~~ 6010C 8270D Sim	2x 1 Liter	Non-preserved	[ ]
[ ] Other				[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 5

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Spatafora

LOCATION SKETCH

* Obstruction around 24 ft. btoc, Unable to advance HDPE tubing beyond this point for peristaltic pump - had to switch to GeoSub pump *
- Transducer taken out of well during sampling and placed back in well afterwards.

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW15B
DATE: 1/19/22
WELL ID: MW-15B
SAMPLING EVENT: Jan 2022
SAMPLERS: I. Moser
TIME START: 1408 END: 1450
JOB NUMBER: 7772210116.02.****

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [x] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

INITIAL DEPTH TO WATER	10.57 FT	WELL DEPTH (TOR)	150 (Historical) FT
FINAL DEPTH TO WATER	10.75 ~~150 (Historical)~~ FT	SCREEN LENGTH	Unk (open hole) FT
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	0.27 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	0.632
TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	2.34 GAL		

PROTECTIVE CASING STICKUP (FROM GROUND)	2.2 FT	PROTECTIVE CASING / WELL DIFFERENCE	~~N/A~~ FT
PID AMBIENT AIR	— PPM	WELL DIAMETER	6" IN
PID WELL MOUTH	— PPM		
PRESSURE TO PUMP	— PSI		
REFILL TIMER SETTING	—	DISCHARGE TIMER SETTING	—

WELL INTEGRITY:	YES	NO	N/A
CAP	✓	—	—
CASING	✓	—	—
LOCKED	✓	—	—
COLLAR	✓	—	—

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1408	10.65	200	8.91	0.391	7.76	11.69	0.0	114	140	114	
1413	10.67	200	8.54	0.500	7.40	10.69	14.6	128		128	
1418	10.68	200	8.48	0.529	7.36	9.67	28.3	96		96	
1423	10.69	200	8.73	0.545	7.30	1.84	30.6	68		68	
1428	10.70	200	8.88	0.547	7.30	1.40	24.3	61		61	
1433	10.72	250	8.90	0.547	7.30	1.30	9.3	68		68	Rate goes up
1438	10.74	250	9.16	0.547	7.30	1.19	9.5	71		71	
1443	10.75	250	9.19	0.547	7.30	1.18	9.3	74		74	
1448	10.75	250	9.18	0.547	7.30	1.18	9.8	76		76	
1450	sample										

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[ ] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other 8260C TCL list	~~6010~~	ICE, HCL	2 VOA	[x]
[x] Other 8270D SIM 1,4 Dioxane	6010C	ICE	2 1L Amber	[x]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO

NUMBER OF GALLONS GENERATED: 2.34

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: _____

LOCATION SKETCH

Access Rd across Street from 96 Canal Rd.
* Flagged after entrance to woods (wire gate across entrance) ~5 min walk
** Trail needs to be cleared w/ saw + bobcat then regularly Kept up w/ for techs to easily Navigate to well.

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

356023-MW16

wood.

PROJECT: NYS Mohonk Road Industrial Site

SAMPLE I.D. NUMBER: ~~B-356023-MW-16B~~

WELL ID: ~~B-MW-16B~~ MW16

SAMPLING EVENT: NYS Mohonk

DATE: 1-19-2022

TIME START: 14:00 END: 15:05

JOB NUMBER: 7772210116.02.****

SAMPLERS: J. Spatafore

WATER LEVEL / PUMP SETTINGS

INITIAL DEPTH TO WATER: 22.79 FT

FINAL DEPTH TO WATER: 23.75 FT

DRAWDOWN VOLUME: 0.1536 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})

TOTAL VOL. PURGED: 4.5 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [x] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

WELL DEPTH (TOR): 92.70 FT

SCREEN LENGTH: Unknown FT

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.1536 : 4.5

PROTECTIVE CASING STICKUP (FROM GROUND): 2.0 FT

PID AMBIENT AIR: — PPM

PID WELL MOUTH: — PPM

PRESSURE TO PUMP: — PSI

REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: 0.3 FT

WELL DIAMETER: 2 IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
14:00	23.29	300	9.90	0.203	6.44	5.27	36.0	-46	78	173	Begin purging
14:05	23.46	300	9.69	0.260	6.31	3.96	86.1	-40		184	
14:10	23.54	300	9.66	0.263	6.30	3.72	91.2	-40		190	
14:15	23.65	300	9.65	0.263	6.31	3.55	74.6	-41		197	
14:20	23.58	160	9.22	0.263	6.32	3.45	45.4	-41		198	Lowered Flow rate
14:25	23.65	160	9.39	0.265	6.32	3.32	18.5	-41		187	
14:30	23.66	160	9.30	0.266	6.32	3.29	13.2	-41		184	
14:35	23.70	160	9.40	0.267	6.30	3.26	9.0	-41		182	
14:40	23.74	160	9.23	0.268	6.30	3.20	6.3	-40		181	
14:45	23.75	160	9.08	0.268	6.29	3.15	4.9	-40		181	
14:50	23.75	160	9.09	0.268	6.28	3.11	4.4	-40		181	
14:55	23.75	160	8.94	0.268	6.27	3.09	3.6	-39		182	
15:00	23.75	160	8.75	0.268	6.27	3.06	3.5	-39		182	
15:05	23.75	160	8.75	0.268	6.27	3.07	3.5	-39		183	Sampled

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [x] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [x] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS
To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[x] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other 1,4 Dioxane	~~6010~~ J3 8270D SIM 6010C	2x Liters	Amber	[x] 1,4 Dioxane
[ ] Other				[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO

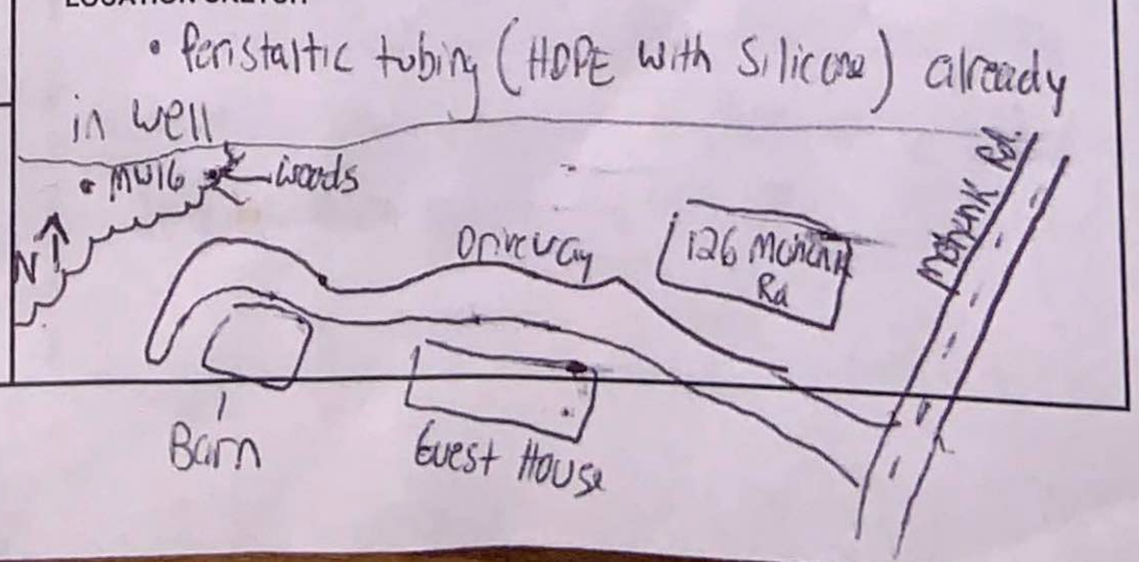
NUMBER OF GALLONS GENERATED: 4.5

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Spatafore

LOCATION SKETCH



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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-ERT1
WELL ID: ERT 1
SAMPLING EVENT: Jan 22
DATE: 1/19/22
TIME: START ____ END ____
JOB NUMBER: 7772210116.02.****
SAMPLERS: I. Moser

WATER LEVEL / PUMP SETTINGS

System Sample

INITIAL DEPTH TO WATER: — FT
FINAL DEPTH TO WATER: — FT
DRAWDOWN VOLUME: — GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: — GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER ____

WELL DEPTH (TOR): — FT
SCREEN LENGTH: — FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: —

PROTECTIVE CASING STICKUP (FROM GROUND): — FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: — PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: — FT
WELL DIAMETER: — IN

WELL INTEGRITY:	YES	NO	N/A
CAP	—	—	—
CASING	—	—	—
LOCKED	—	—	—
COLLAR	—	—	—

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1623	—	—	10.05	0.688	7.20	9.07	0.15	164	—	164	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [ ] HIGH DENSITY POLYETHYLENE
- [ ] OTHER ____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER ____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER ____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[X] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[X] Other 1,4 Dioxane 8270D SIM	~~6010~~ 6010C	2x Liter	Non-preserved	[ ]
[ ] Other				[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 3

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Moser

LOCATION SKETCH

purged and Sampled from groundwater treatment plant port. LaBella purged and Sampled port earlier in the day as well.

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-ERT4
WELL ID: ERT-4
SAMPLING EVENT: Jan 22
DATE: 1/20/22
TIME START: 1550 END: 1705
JOB NUMBER: 7772210116.02.****
SAMPLERS: J. Moser

WATER LEVEL / PUMP SETTINGS

Furnace Removed - From TOC

INITIAL DEPTH TO WATER: 34.01 FT
FINAL DEPTH TO WATER: 42.51 FT
DRAWDOWN VOLUME: 5.53 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 2.54 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

WELL DEPTH (TOR): ~47 FT
SCREEN LENGTH: Open Bore FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.46

PROTECTIVE CASING STICKUP (FROM GROUND): 2.4 FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: — PSI
REFILL TIMER SETTING: —

PROTECTIVE CASING / WELL DIFFERENCE: NA FT
WELL DIAMETER: 4 IN

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED		✓	
COLLAR		✓	

DISCHARGE TIMER SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1550	34.23	150	10.00	0.901	7.24	6.71	~~573~~ 370	-88	45	+167	
1555	34.91	150	10.18	0.914	7.36	6.85	560	-94	45	166	Very Turbid
1600	35.77	150	10.40	0.916	7.42	6.79	440	-97	45	171	
1605	36.50	100	10.23	0.916	7.47	6.62	441	-99	45	176	
1610	37.69	150	11.09	0.909	7.25	6.69	493	-89	45	189	
1615	38.69	150	11.08	0.902	7.44	6.36	501	-98	45	183	
1620	39.53	150	10.95	0.892	7.44	6.17	615	-97	45	185	
1625	40.25	150	10.90	0.895	7.42	5.98	708	-97	45	186	
1630	41.27	150	10.76	0.891	7.42	6.00	667	-97	45	188	
1635	41.61	150	10.53	0.884	7.42	6.07	568	-96	45	189	
1640	42.00	150	10.54	0.882	7.42	6.10	572	-96	45	190	
1645	42.14	150	10.55	0.879	7.40	6.06	463	-96	45	191	
1650	42.34	100	10.04	0.869	7.39	5.90	390	-95	45	192	lower rate
1655	42.49	100	9.93	0.871	7.39	5.91	395	-95	45	193	
1700	42.51	100	9.87	0.870	7.40	5.93	394	-95	45	193	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] GEOPUMP

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [ ] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

$250

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[ ] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[✓] Other	~~6010~~ 8270D SIM	2x Liter	non-preserved	[ ]
[✓] Other 8260C VOCs	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO
NUMBER OF GALLONS GENERATED: 2.54

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: [signature]

LOCATION SKETCH

well needs to be redeveloped

1705 SA
- Draw down doesn't make sense
- had ~3 gal in purge bucket
→ leak somewhere?
- Dirty

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FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW5R
WELL ID: MW-5R
SAMPLING EVENT: Jan 22
DATE: 1/19/22
TIME: START ____ END ____
JOB NUMBER: 7772210116.02.****
SAMPLERS: T. Moser

WATER LEVEL / PUMP SETTINGS

*System Sample

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [x] OTHER ____

INITIAL DEPTH TO WATER	— FT	WELL DEPTH (TOR)	— FT	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
FINAL DEPTH TO WATER	— FT	SCREEN LENGTH	— FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	— GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	—	PID WELL MOUTH	— PPM
TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	— GAL			PRESSURE TO PUMP	— PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	— FT
WELL DIAMETER	— IN
DISCHARGE TIMER SETTING	—

WELL INTEGRITY:	YES	NO	N/A
CAP	—	—	—
CASING	—	—	—
LOCKED	—	—	—
COLLAR	—	—	—

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1603	—	—	9.16	0.782	7.47	4.01	3.7	129	—	129	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] ~~GEOPUMP~~

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [ ] HIGH DENSITY POLYETHYLENE
- [ ] OTHER ____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER ____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER ____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	HCL / 4 DEG. C	2 X 40 mL	[ ] VOC- ON-SITE LAB
[x] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other 1,4 Dioxane 8270D SIM	~~6010~~ 6010C	2 x Liter non-preserved		[ ]
[ ] Other				[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO

NUMBER OF GALLONS GENERATED: 3

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joe Mac

LOCATION SKETCH

Purged and Sampled from System in treatment building.

LaBella purged and sampled port earlier in the day as well.

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

wood.

PROJECT: NYS Mohonk Road Industrial Site
SAMPLE I.D. NUMBER: 356023-MW7R
WELL ID: MW-7R
SAMPLING EVENT: Jan 22
DATE: 1/19/22
TIME: START ~~~ END
JOB NUMBER: 7772210116.02.****
SAMPLERS: I. Mosc

WATER LEVEL / PUMP SETTINGS

System Sample

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

INITIAL DEPTH TO WATER	— FT	WELL DEPTH (TOR)	— FT	PROTECTIVE CASING STICKUP (FROM GROUND)	— FT
FINAL DEPTH TO WATER	— FT	SCREEN LENGTH	— FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	— GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	—	PID WELL MOUTH	— PPM
TOTAL VOL. PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	— GAL			PRESSURE TO PUMP	— PSI
				REFILL TIMER SETTING	—

PROTECTIVE CASING / WELL DIFFERENCE	— FT		
WELL DIAMETER	— IN		
WELL INTEGRITY:	YES	NO	N/A
CAP	—	—	—
CASING	—	—	—
LOCKED	—	—	—
COLLAR	—	—	—
DISCHARGE TIMER SETTING	—		

PURGE DATA

TIME	DEPTH TO WATER (ft) 0.3	PURGE RATE (ml/m)	TEMP. (deg. c) 3%	SPECIFIC CONDUCTANCE (ms/cm) 3%	pH (units) 0.1	DISS. O2 (mg/L) 10%	TURBIDITY (ntu) 10%	REDOX (mv) 10	PUMP INTAKE DEPTH (ft)	ORP 10	COMMENTS
1613	—	—	9.73	0.656	7.28	6.02	1.1	150	—	150	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] QED BLADDER
- [ ] SIMCO BLADDER
- [x] ~~GEOPUMP~~

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [ ] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [ ] OTHER _____

TYPE OF BLADDER MATERIAL
- [ ] TEFLON
- [ ] OTHER _____

ANALYTICAL PARAMETERS

To Be Collected

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[ ] VOC- ON-SITE LAB	MOD-8021	~~HCL / 4 DEG. C~~	~~2 X 40 mL~~	[ ] VOC- ON-SITE LAB
[✓] VOC	8260B	HCL / 4 DEG. C	3 X 40 mL	[ ] VOC
[ ] SVOC	CLP	4 DEG. C	2 X 1 L AG	[ ] SVOC
[ ] Metals (dissolved - field filtered)	CLP	4 DEG. C	2 X 1 L AG	[ ] PEST / PCBs
[ ] TAL INORGANICS	CLP	HNO3 to pH <2	1 x 1 L P	[ ] TAL INORGANICS
[ ] CYANIDE	335.4			[ ] CYANIDE
[ ] Maine DRO	MEDEP	HCL / 4 DEG. C	2 X 1 L AG	[ ] Maine DRO
[ ] TOC	USEPA 415.1	H2SO4 to pH <2	2 X 40 ML	[ ] TOC
[ ] TSS	USEPA 160.2	4 DEG. C	1 X 250 mL P	[ ] TSS
[ ] TKN	USEPA 351.2	H2SO4 to pH <2	1 X 1 L P	[ ] TKN
[x] Other 1,4 Dioxane 8270D Sim	~~6010~~	2x Liter	non-preserved	[ ]
[ ] Other	6010C			[ ]
[ ] Other				[ ]

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: (YES) NO

NUMBER OF GALLONS GENERATED: 3

NOTES

All Equipment used either dedicated or deconned prior to arrival on site. No rinseate/ field blank required

SIGNATURE: Joan Roer

LOCATION SKETCH

Purged from groundwater treatment building, Sampled from port. Labella purged and sampled port earlier in the day as well.

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Park		LOCATION ID: ERT-4	DATE: 5/18/23
PROJECT NUMBER: 77742 60116.01.*****		START TIME: 1235	END TIME: 1435
SAMPLE ID: 356023-ERT4	SAMPLE TIME: 1332	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☑ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☑ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED			✓
COLLAR	✓		

INITIAL DTW (BMP)	31.16 FT	FINAL DTW (BMP)	32.85 FT	PROT. CASING STICKUP (AGS)	~2' FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	46.9 FT	SCREEN INTERVAL	NA FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
1250	31.16	100	17.78	0.712	10.94	7.60	215	1000+	40'	Accidentally hit bottom of well
1255	31.54	100	16.59	0.733	9.85	7.47	216	1000+	'	water coming out of Hose is cloudy 1000 NTU
1300	31.75	100	16.58	0.737	8.67	7.40	214	1000+		
1305	32.00	125	15.09	0.752	8.75	7.40	212	230		Pump shutting off @ 100 mL/min Turn up a little bit.
1310	32.20	125	14.96	0.741	8.26	7.40	210	208		
1315	32.42	125	14.95	0.739	8.30	7.42	206	193		
1320	32.57	125	14.98	0.733	8.15	7.45	205	178		
1325	32.73	125	14.65	0.738	8.21	7.50	203	182		Temp = flow cell now in shade
1330	32.85	125	14.67	0.737	8.18	7.52	202	180		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☑ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☑ ALCONOX
- ☑ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☑ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☒ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☑ WL METER
- ☐ PID
- ☑ WQ METER
- ☐ TURB. METER
- ☑ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	TCL VOC	8260B SIM		No	HCl, Ice	80 mL	MS/MSD
☐	1,4 Dioxane	8270D SIM		No	Ice	2 L	MS/MSD
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☑ NO ☐
NUMBER OF GALLONS GENERATED:
NO-PURGE METHOD UTILIZED: YES ☐ NO ☑

NOTES 100 mL/min lowest rate possible

Sampler Signature: Print Name:
Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Monmouth Rd Industrial Park		LOCATION ID: MW-1B	DATE: 5/16/23
PROJECT NUMBER: 7772210116		START TIME: 1530	END TIME: 1630
SAMPLE ID: 356023-MW1B	SAMPLE TIME: 1630	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☒ OTHER 3"

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	53.18 FT	FINAL DTW (BMP)	56.10 FT	PROT. CASING STICKUP (AGS)	~2' FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	~100' FT	SCREEN INTERVAL	Unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
1545	53.93	200	16.64	0.609	2.00	6.96	169	15.9	~95'	No odor
1550	54.30	200	17.52	0.677	1.44	6.92	160	11.8		"
1555	54.73	200	16.51	0.693	1.81	6.89	142	15.8		"
1600	54.93	200	16.88	0.696	2.82	6.87	144	15.5		"
1605	55.55	200	15.22	0.714	2.58	6.86	152	17.9		Pump briefly increased power displayed
1610	55.78	~~200~~ 150	15.09	0.715	2.57	6.84	154	19.5		No odor
1615	55.93	~~200~~ 150	15.13	0.718	2.58	6.83	164	28.5		"
1620	56.08	~~200~~ 150	15.05	0.715	2.60	6.83	165	28.3		"
1625	56.10	150	15.08	0.717	2.60	6.82	166	28.6		"

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☒ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☒ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER
☒ PID
☒ WQ METER
☐ TURB. METER
☒ PUMP
☐ OTHER
☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	VOC	8260B		No	HCl, Ice	80 mL	No
☐	1,4 Dioxane	8270SIM		No	Ice	2 L	No
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ☐
NUMBER OF GALLONS GENERATED:
NO-PURGE METHOD UTILIZED: YES ☐ NO ☐

NOTES

Sampler Signature: Isaac Moser Print Name: Isaac Moser

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Industrial Plant		LOCATION ID: MW-4	DATE: 5/18/23
PROJECT NUMBER: 777321016.01.***		START TIME: 1050	END TIME: 1202
SAMPLE ID: 356023-MW4	SAMPLE TIME: 1132	SITE NAME/INSTALLATION:	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	7.06 FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	21.06 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
1100	7.07	100	13.18	0.947	4.18	7.05	165	421	16.5'	
1105	8.93	100	13.82	0.941	0.00	6.93	180	326		
1110	9.62	100	13.09	0.961	0.00	6.90	184	198		
1115	9.65	100	13.80	0.946	0.00	6.91	183	189		
1120	9.68	100	13.95	0.948	0.00	6.91	184	149		
1125	9.71	100	14.01	0.950	0.00	6.91	185	142		
1130	9.74	100	13.98	0.949	0.00	6.91	187	146		
1132	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☐ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
X	TCL VOCs	8260B		no	HCl	80mL	N
X	1,4 Dioxane	8270D SIM		no	none	2L	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐
NUMBER OF GALLONS GENERATED:
NO-PURGE METHOD UTILIZED: YES ☐ NO ☐

NOTES
Had to remove tubing from 6' down well before start, increased turbidity

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Print Name:
Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Plant		LOCATION ID: MW-5B	DATE: 5/16/23
PROJECT NUMBER: 7722101116		START TIME: 1400	END TIME: 1510
SAMPLE ID: 356023-MW5B	SAMPLE TIME: 1505	SITE NAME/INSTALLATION: Mohawk 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☑ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☑ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	28.00 FT	FINAL DTW (BMP)	28.20 FT	PROT. CASING STICKUP (AGS)	~~3.6~~ FT	TOC/TOR DIFFERENCE	NA FT
WELL DEPTH (BMP)	36.30 FT	SCREEN INTERVAL	UNK FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	8.30 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
1428	28.20	150	16.15	0.452	6.01	6.78	155	50.2	34	No odor, No Color
1433	28.20	150	16.28	0.439	4.55	6.97	155	56.4	34	"
1438	28.20	150	14.83	0.473	4.61	6.90	162	19.5		"
1443	28.20	150	14.39	0.483	4.54	6.88	165	11.2		"
1448	28.20	150	14.06	0.490	4.60	6.85	168	7.2		"
1453	28.20	150	13.96	0.493	4.56	6.81	171	7.2		"
1458	28.20	150	13.97	0.494	4.55	6.80	172	7.3		
1503	28.20	150	13.95	0.494	4.55	6.79	173	7.2		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☑ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☑ ALCONOX
☑ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☑ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☑ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☑ WL METER Heron
☑ PID Horiba U-52
☑ WQ METER ~~Horiba~~ Horiba U-52
☐ TURB. METER
☑ PUMP Grundfos
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	TCL VOCs	8260B	1SP DEC TCL	No	HCl	80 mL (2 vials)	No
☐	1,4-Dioxane	~~8270D~~ SIM	SIM	No	Ice	2L (2 Amb x 3)	No
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☑ NO ☐
NUMBER OF GALLONS GENERATED:
NO PURGE METHOD UTILIZED: YES ☐ NO ☑

NOTES

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Isaac Moser Print Name: Isaac Moser
Checked By: Isaac Moser Date: 5/16/23

REV. 9/29/2009

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Monarch Rd Industrial Park		LOCATION ID: MW-6B	DATE: 5/18/23
PROJECT NUMBER: 77732101601.****		START TIME: 0915	END TIME: 1040
SAMPLE ID: 356023--MW6B	SAMPLE TIME: 1002	SITE NAME/INSTALLATION: 356013	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☒ OTHER 3"

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	80.33 FT	FINAL DTW (BMP)	82.00 FT	PROT. CASING STICKUP (AGS)	2.35 FT	TOC/TOR DIFFERENCE	0.41 FT
WELL DEPTH (BMP)	100' FT	SCREEN INTERVAL	UNK FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
	BEGIN PURGING									
0930	80.33	300	12.75	0.651	7.44	6.76	206	1.6	90'	
0935	82.52	300	13.79	0.653	6.25	6.99	254	0.6		reduce flow rate
0940	82.22	150	13.11	0.657	5.26	7.22	225	0.1		
0945	82.00	150	13.17	0.659	5.36	7.24	190	0.6		
0950	82.00	150	13.20	0.659	5.24	7.35	161	0.1		
0955	82.00	150	13.34	0.656	5.27	7.34	158	0.0		
1000	82.00	150	13.36	0.657	5.26	7.34	156	0.0		
1002	sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☒ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☐ WL METER
- ☐ PID
- ☐ WQ METER
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	TCL, TCLP	8260B		no	HCl	80mL	DUP MS/MSD
☒	1,4 Dioxane	8270 SIM		no	none	2L	DUP MS/MSD
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ☐
NO-PURGE METHOD UTILIZED: YES ☐ NO ☐
NUMBER OF GALLONS GENERATED:

NOTES

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Print Name:

Checked By: Date:

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Plant		LOCATION ID: MW-8B	DATE: 5/16/23
PROJECT NUMBER: ~~36119234~~ 777221011.6		START TIME: 1130	END TIME: ~~1345~~ 1410
SAMPLE ID: 356023-MW8B 95	SAMPLE TIME: 1325	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	31.96 FT	FINAL DTW (BMP)	31.97 FT	PROT. CASING STICKUP (AGS)	0 FT	TOC/TOR DIFFERENCE	.41 FT
WELL DEPTH (BMP)	≈100 FT	SCREEN INTERVAL	Unknown FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	68.04 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	.015 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	100.48 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.6 GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1245	BEGIN PURGING									
1250	31.98	250	14.77	.373	4.52	8.05	-100	27.7	95	
1255	31.98	↓	13.88	.376	2.09	8.05	-174	32.9	↓	
1300	31.97		15.28	.416	1.42	8.03	-172	47.6		Sign changed from 1255
1305	31.99		15.02	.436	1.34	8.02	-189	44.0		
1310	32.00		15.38	.435	1.31	8.02	-195	41.1		
1315	32.00		15.46	.429	1.27	8.02	-199	37.1		
1320	31.99	↓	15.63	.440	1.22	8.01	-204	34.0	↓	
1325	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Pippon T
- ☐ PID
- ☒ WQ METER Horiba U-53
- ☒ TURB. METER Horiba U-53
- ☒ PUMP Geotech
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	TCL VOCs	~~8260B~~ 8260B		no	HCl	80 mL	no
☒	1,4 Dioxane	8270D SIM		no	—	2L	no
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED: 2.5

NOTES

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Maverick Rd Industrial Park		LOCATION ID: MW-9B	DATE: 5/17/13
PROJECT NUMBER: 7771A(0116.02.[illegible]		START TIME: 1130	END TIME:
SAMPLE ID: 356013-MW-9B	SAMPLE TIME: 1415	SITE NAME/INSTALLATION: 356013	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	17.85 FT	FINAL DTW (BMP)	17.95 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	145 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	127.15 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	187.67 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1330	BEGIN PURGING									
1335	18.00	250	11.44	.275	5.18	11.80	-71	89.7	140	
1340	17.94	↓	11.08	.217	.84	9.00	-120	100	↓	
1345	17.91		11.57	.253	.45	8.34	-117	93.1		
1350	17.92		11.53	.283	.35	7.96	-128	91.2		
1355	17.90		11.54	.287	.27	7.87	-126	93.3		
1400	17.93		11.56	.289	.30	7.82	-124	87.8		
1405	17.92		11.58	.291	.37	7.79	-122	79.5		
1410		↓	11.59	.292	.45	7.78	-123	73.3	↓	
1415	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Solinst Model 101
- ☐ PID
- ☒ WQ METER Horiba U-53
- ☒ TURB. METER Horiba U-53
- ☒ PUMP Global
- ☐ OTHER
- ☐ FILTERS NO. ____ TYPE ____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	TCL VOCs	8260B		no	HCl	80mL	no
☒	1,4-Dioxane	8270D SIM		no	none	2L	no
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED: 3.6

NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO

NOTES

Sampler Signature: [signature]

Print Name: Ryan Gardner

Checked By:

Date: 5/17/13

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Plymouth Rd Industrial Plant		LOCATION ID: MW-10B	DATE: 5/16/23
PROJECT NUMBER: ~~36111963~~ 777221011		START TIME: 1420	END TIME: 1540
SAMPLE ID: 356023-MW-10B	SAMPLE TIME: 1530	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

356023-DUP-01

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	23.32 FT	FINAL DTW (BMP)	23.79 FT	PROT. CASING STICKUP (AGS)	~3' FT	TOC/TOR DIFFERENCE	NA FT
WELL DEPTH (BMP)	100 FT	SCREEN INTERVAL	UNK FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	76.68 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	113.18 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1450	BEGIN PURGING									
1455	23.49	200	12.86	.163	3.05	6.82	101	21.4	95	
1500	23.59		12.18	.187	1.11	6.58	107	0.0		
1505	23.61		11.98	.191	.27	6.55	108	0.2		
1510	23.66		11.92	.192	.02	6.51	109	1.1		
1515	23.70		11.82	.193	.02	6.50	108	5.5		
1520	23.74		11.61	.191	.09	6.55	107	9.8		
1525	23.79		11.77	.191	.12	6.55	105	7.2		
1530	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☒ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☒ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER Solinst
- ☐ PID
- ☒ WQ METER YSI-556 MPS S/N 21J101853
- ☒ TURB. METER HF Scientific MicroTPW S/N 1231V-53
- ☒ PUMP GeoSub
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
TCL VOCs	8260 B		NO	HCl	80 mL	DUP + MS/MSD
1,4 Dioxane	8270D SIM		NO	Ice	2 L	DUP + MS/MSD

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO
NUMBER OF GALLONS GENERATED: ___
NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO

NOTES

356023-DUP-01 collected Here MS/MSD collected

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Plant		LOCATION ID: MW-11B	DATE: 5/18/23
PROJECT NUMBER: 7772201116.01.******		START TIME: 1100	END TIME: 1300
SAMPLE ID: 356023-MW11B	SAMPLE TIME: 1225	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			X

INITIAL DTW (BMP)	36.51 FT	FINAL DTW (BMP)	36.57 FT	PROT. CASING STICKUP (AGS)	1.6 FT	TOC/TOR DIFFERENCE	NA FT
WELL DEPTH (BMP)	181 FT	SCREEN INTERVAL	open hole FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	144.49 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	217.27 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1145	BEGIN PURGING									
1150	36.55	200	13.57	.485	1.71	7.45	-70	128	175	
1155	36.55		12.23	.489	1.18	7.44	-73	100.3		
1200	36.55		12.01	.496	1.06	7.44	-74	79.1		
1205	36.55		13.27	.497	0.94	7.44	-75	81.0		
1210	36.56		12.84	.497	0.86	7.44	-76	87.3		
1215	36.55		13.06	.496	0.81	7.44	-77	78.7		
1220	36.55		13.18	.495	0.81	7.44	-77	77.2		
1225	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☐ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☒ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER
☐ PID
☒ WQ METER
☒ TURB. METER
☒ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	TCL VOCs	8260B		no	HCl	40mL	no
☒	1,4 Dioxane	8270D SIM		no	none	2L	no
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED: 2.5

NOTES: Owner requests not to park in driveway while unloading, park by house

Sampler Signature

Print Name: Ryan Ordway

Checked By:

Date: 5/18/23

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mark Rd Industrial Park		LOCATION ID: MW-11C	DATE: 5/18/13
PROJECT NUMBER: 7722210116.02 *****		START TIME: 1340	END TIME: 1445
SAMPLE ID: ~~MW-11C~~ 356033 (FB) MW-11C	SAMPLE TIME: 1410	SITE NAME/INSTALLATION: 356033	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	38.61 FT	FINAL DTW (BMP)	38.72 FT	PROT. CASING STICKUP (AGS)	1.9 FT	TOC/TOR DIFFERENCE	NA FT
WELL DEPTH (BMP)	220 FT	SCREEN INTERVAL	open bore hole FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	181.39 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	267.73 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1330	BEGIN PURGING									
1335	38.77	250	14.73	.527	.64	7.27	67	12.3	180	
1340	28.80		14.21	.611	.53	7.17	79	10.4		
1345	28.82		13.57	.663	.44	7.10	90	13.6		
1350	28.84		17.52	.684	.34	7.06	101	14.2		
1355	28.85		17.25	.690	.30	7.05	109	13.7		
1400	28.87		13.17	.699	.26	7.07	110	12.4		
1405	28.88		17.16	.701	.20	7.11	111	11.9		
1410	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☐ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	~~VOCs 8260B~~						
☒	TCL VOCs	8260B		no	HCl	80mL	no
☒	1,4 Dioxane	8270D SIM		no	None	2L	no

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED: 3.5

NOTES: property owner requests we park near house, not in driveway, while unloading

Sampler Signature:

Print Name: Ryan Dunker

Checked By:

Date: 5/18/13

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Plot		LOCATION ID: MW-16B	DATE: 5/18/23
PROJECT NUMBER: 777201016-02.****		START TIME: 0900	END TIME: 1045
SAMPLE ID: 356023-MW16B	SAMPLE TIME: 1010	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	11.19 FT	FINAL DTW (BMP)	11.17 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	200 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	188.81 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	278.68 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0930	BEGIN PURGING									
0935	11.21	200	12.22	.416	2.63	6.91	189	38.7	190	
0940	11.23	↓	12.32	.414	2.09	6.97	179	12.2	↓	
0945	11.23		12.43	.414	1.80	6.99	173	9.6		
0950	11.24		12.55	.414	1.60	7.00	166	9.0		
0955	11.24		12.59	.413	1.48	7.01	160	9.7		
1000	11.24		12.66	.413	1.40	7.01	156	9.9		
1005	11.25		12.71	.413	1.34	7.02	152	9.5		
1010	Sample	↓							↓	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☐ WL METER
- ☐ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	TCL VOCs	8260B		no	HCl	80mL	no
☒	1,4-Dioxane	8270D SIM		no	none	2L	no

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐
NO-PURGE METHOD UTILIZED: YES ☐ NO ☒
NUMBER OF GALLONS GENERATED: 2.5

NOTES

Sampler Signature: [signature] Print Name: Ryan Carlson

Checked By: Date: 5/18/23

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Merck Rd Industrial Plot		LOCATION ID: MW-14B	DATE: 5/16/23
PROJECT NUMBER: ~~3611~~ 7772210116		START TIME: 0910	END TIME: 1120
SAMPLE ID: 350623-MW14B150	SAMPLE TIME: 1045	SITE NAME/INSTALLATION: 350623	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☒ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	4.98 FT	FINAL DTW (BMP)	5.60 FT	PROT. CASING STICKUP (AGS)	/ FT	TOC/TOR DIFFERENCE	.3 FT
WELL DEPTH (BMP)	155 FT	SCREEN INTERVAL	Unknown FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	150.02 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	.915 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	24.43 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	3.36 GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0955	BEGIN PURGING									
1000	5.05	250	14.13	.437	3.03	6.84	34	98.4	150	
1005	5.12	↓	13.29	.426	2.17	7.05	-17	46.7	↓	
1010	5.20		13.02	.422	1.83	7.07	-30	31.8		
1015	5.27		13.16	.414	1.53	7.07	-47	26.5		
1020	5.33		13.11	.412	1.02	7.07	-53	27.0		
1025	5.42		13.05	.412	0.93	7.09	-60	24.3		
1030	5.48		12.95	.413	0.89	7.09	-64	21.9		
1035	5.51		12.97	.413	0.80	7.08	-66	20.0		
1040	5.54		12.98	.413	0.75	7.09	-67	18.7	↓	
1045	Sampling	↓								

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☒ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER Pippin 20781
☐ PID
☒ WQ METER Horiba U-52 21371
☒ TURB. METER Horiba U-52 21371
☒ PUMP Geosub
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
X	1,4 Dioxane	8270D SIM		NO	ICE	2L	NO
X	TCL VOCs	8260B		NO	HCl	80mL	NO

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED: 3.0

NOTES

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Print Name:

Checked By: Date:

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Plant		LOCATION ID: mw-15B	DATE: 5/17/13
PROJECT NUMBER: 6111912.34		START TIME: 0830	END TIME: 1015
SAMPLE ID: 356023 - MW15B	SAMPLE TIME: 0835	SITE NAME/INSTALLATION: 356013	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	11.49 FT	FINAL DTW (BMP)	11.75 FT	PROT. CASING STICKUP (AGS)	2.2 FT	TOC/TOR DIFFERENCE	0 FT
WELL DEPTH (BMP)	150 FT	SCREEN INTERVAL	UNKnown FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	138.51 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	204.44 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0850	BEGIN PURGING									
0855	11.61	200	10.85	.335	6.08	6.91	216	1.2	145	
0900	11.68		10.75	.427	5.55	7.17	212	15.6		
0905	11.71		10.70	.430	5.18	7.18	206	21.6		
0910	11.74		10.71	.434	5.13	7.18	195	17.2		
0915	11.76		10.77	.436	5.05	7.18	186	11.4		
0920	11.79		10.71	.436	4.84	7.18	180	9.4		
0925	11.83		10.70	.436	4.81	7.18	175	8.5		
0930	11.85		10.70	.436	4.79	7.18	169	4.8		
0935	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☒ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☒ SILICON TUBING
- ☒ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☐ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	TCL VOCs	8260 B		No	HCl	80 mL	No
☐	1,4 Dioxane	8270D SIM		No	ice	2 L	No
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED: ___

NOTES

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Print Name:

Checked By: Date:

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mowry's Rd Industrial Plant		LOCATION ID: MW-16	DATE: 5/17/13
PROJECT NUMBER: 7772A101 16.02.***		START TIME: 1530	END TIME: 1705
SAMPLE ID: 356023-MW16	SAMPLE TIME: 1640	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	25.02 FT	FINAL DTW (BMP)	26.56 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	91.7 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1555	BEGIN PURGING									
1600	25.71	200	11.65	.129	6.78	7.34	135	136	78	
1605	25.73	↓	11.54	.133	5.06	6.57	163	264	↓	
1610	25.77		11.61	.125	4.82	6.49	170	219		
1615	25.79		11.66	.126	4.44	6.46	175	209		
1620	25.81		11.68	.127	4.21	6.45	182	197		
1625	25.82		11.71	.127	3.91	6.44	186	185		
1630	25.82		11.67	.128	3.73	6.44	188	192		
1635	25.83	↓	11.64	.128	3.54	6.43	191	195	↓	
1640	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☒ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER
☐ PID
☒ WQ METER
☒ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	TCL VOCs	8260B		no	HCl	80 mL	no
☒	1,4 Dioxane	8270D SIM		no	none	2L	no

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ☐
NO-PURGE METHOD UTILIZED: YES ☐ NO ☐
NUMBER OF GALLONS GENERATED: ___

NOTES

Sampler Signature: _____ Print Name: Ryan Ondeck

Checked By: _____ Date: 5/17/13

DEVIATIONS FROM THE WORK PLAN

Cylinder starts @ 1600 PSI

FLUTe-Lined Well Sampling Data Sheet

Project Name: Mohonk MRIP

Project No.: 777221010

Well ID: MW-17-1

Date: 5/16/23

Well Depth (from TOPT): 57

Static Water Level (from TOPT): 5.60

Pump Type: Nitrogen Gas Purge

Purge Pressure (psi): ~~40~~ 60 ~~70~~

Sampling Pressure (psi): ~~30~~ 50

Tag Tube DTW (from TOTT): 2.60

Instrument Type: Horiba U-52

Serial Number: Z1296

Sample Interval: 37-57

Sample ID: 396023-MW17-1

Sample Time: 1225

Sampler: I. Moser

Pump Tube PID: 0.0

Sample Tube PID: 0.0

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1002	1010							5.60	None	5L	No readings - Initial Purge
1040	1044	12.98	6.97	0.443	0.0	1.30	167	6.05	None	5L	
1115	1119	12.42	7.10	0.444	0.0	1.72	88	6.53	None	5L	
1150	1154	12.49	7.13	0.434	0.0	1.73	65	6.85	None	5L	
1225	1230							6.89	None	5	No readings - Sample collected

FLUTe-Lined Well Sampling Data Sheet

Project Name: Mohonk MRIP

Project No.: 772210116

Sample Interval: 95-110

Sample ID: 356023-MW17-2

Well ID: MW-17-2

Date: 5/16/23

Sample Time: 1230

Sampler: I. Meser

Well Depth (from TOPT): 110

Purge Pressure (psi): 60

Static Water Level (from TOPT): 10.45

Sampling Pressure (psi): 55

Pump Type: Nitrogen Gas Purge

Tag Tube DTW (from TOTT): 7.60

Pump Tube PID: 0.0

Sample Tube PID: 0.0

Instrument Type: Horiba U-52

Serial Number: Z1Z96

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1010	1014							10.45	None	4.3	No Readings - Initial Purge
1045	1049	13.33	6.88	0.429	010	1.93	123	12.95	None	4.1	
1120	1124	12.45	6.95	0.432	38.9	1.30	98	13.40	None	4.0 L	
1155	1159	12.45	7.04	0.433	8.0	1.13	82	13.69	None	4.0L	
1230	1235							13.57	None	4.0	No Readings - Sample collected

FLUTe-Lined Well Sampling Data Sheet

Project Name: Mohonk MRIP

Project No.: 777221016

Sample Interval: 119-129

Sample ID: 356023-MW17-3

Well ID: MW-17-3

Date: 5/16/23

Sample Time: 1235

Sampler: I. Mosak

Well Depth (from TOPT): 129

Static Water Level (from TOPT): 10.45

Pump Type: Nitrogen Gas Purge

Purge Pressure (psi): 65

Sampling Pressure (psi): 55

Tag Tube DTW (from TOTT): 7.60

Pump Tube PID: 0.0

Sample Tube PID: 0.0

Instrument Type: Horiba U-52

Serial Number: 21296

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1015	1019							10.45	None	4.2	No Readings - Initial Purge
1050	1054	12.44	6.80	0.443	2.2	1.05	42	15.12	None	4.0	
1125	1129	12.35	6.91	0.455	3.6	1.69	-27	18.98	None	4.0	WLM ~~being~~ lowering
1200	1204	12.34	6.95	0.450	7.2	0.43	9	19.05	None	4.0	
1235	1240							19.01	None	4.0	No Readings - Sample collected

FLUTe-Lined Well Sampling Data Sheet

Project Name: Mohonk MRIP

Project No.:

Sample Interval: Unknown

Sample ID: ~~MW-21-1~~ 356023-MW21-1

Well ID: MW-21-1

Date: 5/17/23

Sample Time: 1330

Sampler: I. Moser

Well Depth (from TOPT):

Static Water Level (from TOPT): 0.0

Pump Type: Nitrogen Gas Purge

Purge Pressure (psi): 60

Sampling Pressure (psi): 60

Tag Tube DTW (from TOTT): 0.0

Pump Tube PID: 0.0

Sample Tube PID: 0.0

Instrument Type: Horiba U-52

Serial Number:

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1135	1140							0.0	None	5	
1205	1210	14.30	7.30	0.360	4.5	4.30	-4.1	0.0	None	5	
1230	1235	11.95	6.87	0.395	0.5	4.85	169	0.0	None	5	
1300	1305	12.33	6.88	0.392	0.0	4.75	179	0.0	None	5	
1330	Sample										

FLUTe-Lined Well Sampling Data Sheet

Project Name: Mohonk MRIP

Project No.:

Sample Interval: Unknown
Sample ID: 356023-MW21-2
Sample Time: 1335
Sampler: I. Moses

Well ID: MW-21-2

Date: 5/17/23

Well Depth (from TOPT):
Static Water Level (from TOPT): 0.0
Pump Type: Nitrogen Gas Purge

Purge Pressure (psi): 60
Sampling Pressure (psi): 60
Tag Tube DTW (from TOTT): 0.0

Pump Tube PID: 0.0
Sample Tube PID: 0.0

Instrument Type: Horiba U-52
Serial Number:

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1140	1145	~~12.20~~	~~7.07~~	~~0.378~~				0.0	None	5L	
1210	1215	12.20	6.97	0.378	8.0	4.53	105	0.0	None	5L	
1235	1240	11.93	6.91	0.352	0.0	4.82	176	0.0	None	5L	
1305	1310	12.20	6.85	0.345	0.0	5.03	183	0.0	None	5L	
1335	Sample										

FLUTe-Lined Well Sampling Data Sheet

Project Name: Mohonk MRIP

Project No.:

Sample Interval: Unknown
Sample ID: 356023-MW21-4
Sample Time: 1340
Sampler: T. Mosca

Well ID: MW-21-4

Date: 5/17/23

Well Depth (from TOPT):
Static Water Level (from TOPT): 0.0
Pump Type: Nitrogen Gas Purge

Purge Pressure (psi): 60
Sampling Pressure (psi): 60
Tag Tube DTW (from TOTT): 0 0

Pump Tube PID: 0.0
Sample Tube PID: 0.0

Instrument Type: Horiba U52
Serial Number:

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1145	1150							0.0	None	5L	
1215	1220	12.00	6.85	0.371	0.0	5.00	146	0.0	None	5L	
1240	1245	12.00	6.79	0.363	0.0	7.24	182	0.0	None	5L	
1310	1315	12.57	6.87	0.356	0.0	6.42	184	0.0	None	5L	
1340	Sample										

FLUTe-Lined Well Sampling Data Sheet

Page _____ of _____

Project Name: Mohonk MRIP

Project No.:

Sample Interval: Unknown

Sample ID: 356023 - MW21-5

Sample Time: 1345

Sampler: I. Moses

Well ID: MW-21-5

Date: 5/17/23

Well Depth (from TOPT): 22'

Static Water Level (from TOPT): 0.0

Pump Type: Nitrogen Gas Purge

Purge Pressure (psi): 60

Sampling Pressure (psi): 60

Tag Tube DTW (from TOTT): 0.0

Pump Tube PID: 0.6

Sample Tube PID: 0.0

Instrument Type: Horiba U-52

Serial Number:

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1150	1155							0.0	None	5L	
1220	1225	12.10	6.80	0.365	0.5	8.20	162	0.0	None	5L	
1245	1250	11.88	6.80	0.369	0.0	7.70	184	0.0	None	5L	
1315	1320	12.05	6.80	0.369	0.0	7.65	185	0.0	None	5L	
1345	Sample										

FLUTe-Lined Well Sampling Data Sheet

Project Name: Mohonk MRIP

Project No.:

Sample Interval: unknown

Sample ID: 3560373-MW21-6

Well ID: MW-21-6

Date: 5/17/23

Sample Time: 1350

Sampler: I Moser

Well Depth (from TOPT):

Static Water Level (from TOPT): 0.0

Pump Type: Nitrogen Gas Purge

Purge Pressure (psi): 60

Sampling Pressure (psi): 60

Tag Tube DTW (from TOTT): 0.0

Pump Tube PID: 0.0

Sample Tube PID: 0.0

Instrument Type: Horiba U52

Serial Number:

Purge Start Time	Purge End Time	Temp. (°F)	pH (SU)	Spec. Conduct (mS/m)	Turbidity (NTUs)	D.O. (mg/l)	ORP (mV)	Static Water Level	Color	Purge Volume (L)	Comments
1155	1200							0.0	None	5L	
1225	1230	13.22	6.78	0.351	0.0	4.15	172	0.0	None	5L	
1250	1255	12.12	6.82	0.365	0.0	7.43	182	0.0	None	5L	
1320	1325	11.90	6.90	0.370	0.0	4.18	185	0.0	None	5L	
1350	Sample										

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Park		LOCATION ID: ~~ERT-1~~ ERT-1	DATE: 5/17/23
PROJECT NUMBER: 777221011.6		START TIME: 0910	END TIME: 0915
SAMPLE ID: 356023-ERT1	SAMPLE TIME: 0915	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

SAMPLE TYPE: [X] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0914	—	—	14.52	0.546	6.90	7.02	229	0.0	—	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] PDB
- [ ] HYDRASLEEVE _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____
- [X] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
[ ]	TCL VOC	8260B		No	HCl	80 mL	No
[ ]	1,4 Dioxane	8270D SIM		No	ice	2 L	No
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [ ]
NUMBER OF GALLONS GENERATED _____
NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

NOTES:

Sampler Signature: Isaac Moses Print Name: Isaac Moses
Checked By: Date: 5/17/23

DEVIATIONS FROM THE WORK PLAN:

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Plant		LOCATION ID: MW-5R	DATE: 5/17/23
PROJECT NUMBER:		START TIME: 0915	END TIME: 0920
SAMPLE ID: 356023-MW5R	SAMPLE TIME: 0920	SITE NAME/INSTALLATION:	PAGE: 1 OF 1

SAMPLE TYPE: [X] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0919	—	—	13.69	0.591	6.40	6.94	229	0.0	—	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] PDB
- [ ] HYDRASLEEVE
- [ ] OTHER

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER
- [X] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [ ] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] PUMP
- [ ] OTHER
- [ ] FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
[ ]	TCL VOC	8260B		No	HCl	80 mL	No
[ ]	1,4 Dioxane	8270DSIM		No	Ice	2 L	No
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [X] NO [ ]
NO-PURGE METHOD UTILIZED: YES [ ] NO [X]
NUMBER OF GALLONS GENERATED: _____

NOTES:

Sampler Signature: Jason Mosch Print Name: Jason Mosch
Checked By: Date: 5/17/23

DEVIATIONS FROM THE WORK PLAN:

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Monarch Rd Industrial Park		LOCATION ID: MW-7R	DATE: 5/17/23
PROJECT NUMBER: 777221011 4		START TIME: 0905	END TIME: 0910
SAMPLE ID: 356023-MW7R	SAMPLE TIME: 0910	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

SAMPLE TYPE: [X] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0908	—	—	16.45	0.507	9.55	6.99	239	0.0	—	Grab From System

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [X] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] PDB
- [ ] HYDRASLEEVE _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____
- [X] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [ ] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
[ ]	TCL VOCs	8260B		No	HCl	80 mL	No
[ ]	1,4 Dioxane	8270D SIM		No	ice	2 L	No
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [X] NO [ ]
NO-PURGE METHOD UTILIZED: YES [ ] NO [X]
NUMBER OF GALLONS GENERATED: _____

NOTES:

Sampler Signature: Isaac Moser Print Name: Isaac Moser
Checked By: Date: 5/17/23

DEVIATIONS FROM THE WORK PLAN:

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	MBIP
PROJECT NUMBER	[redacted]
SAMPLE ID	356023-ERT-1
SAMPLE TIME	1530
LOCATION ID	ERT-1
DATE	8/29/23
START TIME	1525
END TIME	1530
SITE NAME/INSTALLATION	Wenesk Rd Ind. Plant
PAGE	1 OF 1

SAMPLE TYPE: ☑ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☐ OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1525	—	NM ~1 gpm	18.33	0.420	0.00	6.77	262	3.9		Recovery well

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☑ SUBMERSIBLE
- ☐ BLADDER _____
- ☐ PDB
- ☐ HYDRASLEEVE
- ☐ OTHER _____

DECON FLUIDS USED
- ☐ ALCONOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☑ OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER None
- ☐ OTHER _____

None

- ☑ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☑ OTHER Recovery well
- ☐ OTHER _____
- ☐ OTHER _____

EQUIPMENT USED
- ☐ WL METER _____
- ☐ PID _____
- ☑ WQ METER _____
- ☐ TURB. METER _____
- ☐ PUMP _____
- ☐ OTHER _____
- ☐ FILTERS NO. — TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☑	1,4 Dioxane SIM	8260 ASP DEL TCL		N	—	2 L	No
☑				N	HCl	80 mL	No
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☑ YES ☐ NO
NUMBER OF GALLONS GENERATED: 5
NO-PURGE METHOD UTILIZED: ☐ YES ☐ NO

NOTES: Sample collected in Treatment Plant

Sampler Signature: [signature] Print Name: Isaac Moses
Checked By: Date: 8/29/23

DEVIATIONS FROM THE WORK PLAN:

N/A

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	MRIP
PROJECT NUMBER	
SAMPLE ID	356023-MW-5R
SAMPLE TIME	1540
LOCATION ID	MW-5R
DATE	8/29/23
START TIME	1535
END TIME	1540
SITE NAME/INSTALLATION	Mohawk Rd. Ind. Park
PAGE	1 OF 1

SAMPLE TYPE: [✓] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1533	—	NM @ ~1 gpm	16.41	0.452	0.00	7.02	225	3.6	—	Recovery well

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [✓] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] PDB
- [ ] HYDRASLEEVE _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [✓] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [✓] OTHER None
- [ ] OTHER _____

- [✓] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [✓] OTHER Recovery Well
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [✓] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
✓	1,4 Dioxane SIM			No	—	2 L	No
✓	8260 ASP DEC TICL			NO	HCl	80 mL	No

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[✓]	[ ]
NO-PURGE METHOD UTILIZED	[ ]	[ ]

NUMBER OF GALLONS GENERATED: ~5

NOTES:

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN:

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohonk Rd. Indstrial Plant	LOCATION ID: MW-15R
PROJECT NUMBER: 7772210116	DATE: 8/29/23
SAMPLE ID: 356023- MW-15R	SAMPLE TIME: 1545
START TIME: 1400	END TIME: 1545
SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	11.42 FT	FINAL DTW (BMP)	11.99 FT	PROT. CASING STICKUP (AGS)	2 FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	150 FT	SCREEN INTERVAL	Open Hole FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	138.58 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.84 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	204 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.74 GAL	DRAWDOWN/ TOTAL PURGED	0.47	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1500	BEGIN PURGING									
1505	11.70	150	14.85	.318	1.74	6.85	32	1000	145	
1510	11.74	150	14.45	.355	.95	7.07	-11	112		
1515	11.78	↓	14.24	.357	.98	7.04	-9	80.6		
1520	11.81		14.29	.354	1.00	7.05	-8	62.8		
1525	11.85		14.41	.356	0.89	7.08	-2	64.7		
1530	11.86		14.42	.354	0.88	7.06	-2	68.3		
1535	11.88	↓	14.49	.354	0.91	7.13	-6	67.1	↓	
1540	11.90	↓	14.54	.354	0.84	7.13	-8	65.9	↓	
1545	Sample		~~14.54~~	~~.354~~	~~0.84~~	~~7.13~~	~~-8~~	~~65.9~~		Slightly turbid
				RD						

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ✓ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☒ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☒ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☐ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
✓	VOCs	8260B		No	HCl		No
✓	1,4-Dioxane	8270D SIM		No	-----		No

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED: 4

NOTES: PID readings collected during gauging event before sampling

Sampler Signature: [signature] Print Name: Ryan Bristol

Checked By: Date: 8/29/23

DEVIATIONS FROM THE WORK PLAN

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: MRIP	LOCATION ID: MW-7R
PROJECT NUMBER:	DATE: 8/29/23
SAMPLE ID: 356023-MW-7R	SAMPLE TIME: 1550
START TIME: 1545	END TIME: 1550
SITE NAME/INSTALLATION: Millcreek Rd Ind. Plant	PAGE: 1 OF 1

SAMPLE TYPE: [✓] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1545	—	~NM ~1 gpm	15.05	0.396	0.00	7.07	224	41.1	—	Recovery well

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [✓] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] PDB
- [ ] HYDRASLEEVE
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [✓] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [✓] OTHER None
- [ ] OTHER _____

- [✓] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [✓] OTHER Recovery well
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [✓] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
1,4 Dioxane SIM			NO	—	2L	No
8260 ASP DEC TCL			NO	HCl	80 mL	NO

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[✓]	[ ]
NO-PURGE METHOD UTILIZED	[ ]	[ ]

NUMBER OF GALLONS GENERATED: ~5

NOTES: Recovery well

Sampler Signature: Isaac Moser Print Name: Isaac Moser

Checked By: Date: 8/29/23

DEVIATIONS FROM THE WORK PLAN:

N/A

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME		LOCATION ID	DATE
Mohonk Rd. Indstrial Plant		MW-4	8/30/23
PROJECT NUMBER		START TIME	END TIME
7772210116.		0900	1010
SAMPLE ID 356023- MW-4	SAMPLE TIME 1010	SITE NAME/INSTALLATION 356023	PAGE 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER
TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER
MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED		✓	
COLLAR			

INITIAL DTW (BMP)	7.44 FT	FINAL DTW (BMP)	10.83 FT	PROT. CASING STICKUP (AGS)	2 FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	21.69 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	14.25 FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	0.56 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	2.337 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.98 GAL	DRAWDOWN/ TOTAL PURGED	0.28	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
	BEGIN PURGING									
0917	8.50	300	18.29	0.872	0.00	6.76	263	166	18'	Lower Rate to .150, Pump Started Going
0922	9.10	150	18.35	0.876	0.00	6.81	253	156	18'	Water level is 9.10'
0927	9.50	150	18.55	0.879	0.00	6.83	247	143	18'	Rain cleaning up, sun starts to come out
0932	9.95	150	18.59	0.878	0.00	6.83	242	111	18'	
0937	10.11	150	18.77	0.872	0.00	6.84	237	78.0	18'	
0942	10.31	150	19.02	0.868	0.00	6.85	234	68.2	18'	
0947	10.44	150	19.19	0.866	0.00	6.85	230	42.2	18'	Starting to get sunny & warm outside
0952	10.56	150	19.42	0.866	0.00	6.85	226	37.5	18'	
0957	10.67	150	19.76	0.870	0.00	6.86	223	26.7	18'	
1002	10.72	150	19.95	0.869	0.00	6.86	221	25.3	18'	
1007	10.83	150	20.01	0.869	0.00	6.86	220	25.0	18'	
	FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)		20.01	0.869	0.00	6.86	220	25.0		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☒ LDPE TUBING
☐ OTHER
☐ OTHER

☒ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER
☐ PID
☒ WQ METER
☐ TURB. METER
☒ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD**	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B		No	HCl		No
☒	1,4-Dioxane	8270D SIM		No	----		No
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED: ~2

NOTES PID readings collected during gauging event before sampling

Sampler Signature: [signature] Print Name: Isaac Moser

Checked By: Date: 8/30/23

DEVIATIONS FROM THE WORK PLAN

N/A

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd. Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	350623- MW-12B
SAMPLE TIME	1005
LOCATION ID	MW-12B
DATE	8/30/17
START TIME	0900
END TIME	1040
SITE NAME/INSTALLATION	356023
PAGE	1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED		✓	
COLLAR	✓		

INITIAL DTW (BMP)	12.32 FT	FINAL DTW (BMP)	12.33 FT	PROT. CASING STICKUP (AGS)	— FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	200 FT	SCREEN INTERVAL	90 in bore FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	187.68 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.015 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	27.01 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.78 GAL	DRAWDOWN/ TOTAL PURGED	0.08	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
0930	BEGIN PURGING									
0935	12.74	150	19.87	.383	7.77	6.58	37	58.3	185	
0930	12.35	150	19.49	.386	6.84	6.68	21	49.1		
0935	12.35	150	18.48	.395	6.64	6.64	41	5.0		
0940	12.35	150	17.37	.405	6.07	6.62	36	0.0		
0945	12.74	150	17.04	.409	5.30	6.67	19	0.5		
0950	12.35	150	17.01	.410	4.79	6.67	12	0.8		
0955	12.35	150	17.23	.411	4.35	6.70	4	6.2		
1000	12.35	150	17.40	.410	3.97	6.72	-4	4.9		
1005		150	Sample							

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	17.40	0.410	3.93	6.72	-4	4.9

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☒ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	VOCs	8260B		No	HCl	80 mL	NO
☐	1,4-Dioxane	8270D SIM		No	-----	2 L	NO
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED: 3.5

NOTES: PID readings collected during gauging event before sampling

Sampler Signature: [signature] Print Name: Ryan Orsbe

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN: N/A

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd. Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	350623- MW-5B
SAMPLE TIME	1210
LOCATION ID	MW-5B
DATE	8/30/13
START TIME	1059
END TIME	1245
SITE NAME/INSTALLATION	356023
PAGE	1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER
TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER
MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED		X	
COLLAR		X	

INITIAL DTW (BMP)	29.70 FT	FINAL DTW (BMP)	29.87 FT	PROT. CASING STICKUP (AGS)	~2.5' FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	36.20 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	6.5 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.027 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter X 0.041)	1.066 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	2.37 GAL	DRAWDOWN/ TOTAL PURGED	0.11	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1125	BEGIN PURGING									
1130	29.86	200	14.07	.353	7.06	7.43	96	0.2	31.20	
1135	29.89	200	14.49	.389	6.28	7.02	96	0.0		
1140	29.90	200	16.44	.434	6.08	6.95	102	0.0		
1145	29.92	200	17.83	.452	5.85	6.88	110	0.2		
1150	29.94	200	17.53	.466	5.83	6.86	116	0.0		
1155	29.94	200	17.46	.466	5.64	6.85	120	0.0		
1200	29.94	200	17.64	.453	5.77	6.88	120	0.0		
1205	29.95	200	17.84	.457	5.54	6.88	122	0.0		
1210	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☒ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☒ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	VOCs	8260B		No	HCl	80 mL	NO
☐	1,4-Dioxane	8270D SIM		No	-----	2 L	NO
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐
NO-PURGE METHOD UTILIZED: YES ☐ NO ☒
NUMBER OF GALLONS GENERATED: 2.37

NOTES PID readings collected during gauging event before sampling
Ryan Lasser left mark in @ 1348: DTW = 29.87

Sampler Signature:
Print Name: Ryan Lasser
Checked By:
Date:

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd. Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	350623- ERT-4
SAMPLE TIME	1350
LOCATION ID	~~ERT-4~~ ERT-4
DATE	8/30/23
START TIME	1100
END TIME	1325
SITE NAME/INSTALLATION	356023
PAGE	1 OF 2

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER — by Accidentally written on bottles actually @ 1250

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☒ TOP OF RISER (TOR) ☒ ~~TOP OF CASING~~ (TOC) ☐ OTHER

WELL INTEGRITY	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED		✓	
COLLAR		✓	

INITIAL DTW (BMP)	33.50 FT	FINAL DTW (BMP)	35.89 FT	PROT. CASING STICKUP (AGS)	2.5 FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	45.40 FT	SCREEN INTERVAL	Unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	12.9 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	2.22 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	8.46 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	3.96 GAL	DRAWDOWN/ TOTAL PURGED	0.55	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1110	BEGIN PURGING									
1115	33.12	150	20.30	0.614	3.52	7.47	77	760	42'	Turbid
1120	33.32	150	19.56	0.618	3.66	7.46	79	440	42'	"
1125	33.52	150	19.04	0.626	4.08	7.46	121	391	42'	"
1130	33.73	150	18.72	0.628	4.19	7.46	142	368	42'	"
1135	33.91	150	18.74	0.632	4.14	7.45	154	427	42'	
1140	34.20	150	18.37	0.631	4.05	7.45	160	473	42'	
1145	34.33	156	18.23	0.632	4.08	7.45	163	463	42'	
1150	34.49	150	18.41	0.635	4.12	7.44	169	493	42'	
1155	34.70	150	18.39	0.634	4.16	7.44	172	489	42'	
1200	34.84	150	18.26	0.634	3.61	7.44	176	474	42'	
1205	34.96	150	18.60	0.637	3.75	7.43	179	439	42'	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☒ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☒ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☐ PID
- ☒ WQ METER
- ☐ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B		No	HCl	80mL	No
☒	1,4-Dioxane	8270D SIM		No	-----	2L	No
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED: ~4

NOTES PID readings collected during gauging event before sampling

Sample Turbid + odorless

Sampler Signature: Isaac Moser Print Name: Isaac Moser

Checked By: Date: 8/30/23

DEVIATIONS FROM THE WORK PLAN

N/A

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME		LOCATION ID	DATE
Mohonk Rd. Indstrial Plant		ERT-4	8/30/23
PROJECT NUMBER		**START TIME**	**END TIME**
7772210116		1100	1325
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/INSTALLATION**	**PAGE**
350623- ERT-4	1350	356023	2 OF 2

1) accidentally wrote on Bottles, Was actually 1250

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED		X	
COLLAR		X	

INITIAL DTW (BMP)	32.50 FT	**FINAL DTW (BMP)**	35.89 FT	**PROT. CASING STICKUP (AGS)**	2.5 FT	**TOC/TOR DIFFERENCE**	— FT
WELL DEPTH (BMP)	45.40 FT	**SCREEN INTERVAL**	unk FT	**PID AMBIENT AIR**	NA PPM	**REFILL TIMER SETTING**	NA SEC
WATER COLUMN	12.9 FT	**DRAWDOWN VOLUME** (final DTW- initial DTW X well diam. squared X 0.041)	2.22 GAL	**PID WELL MOUTH**	NA PPM	**DISCHARGE TIMER SETTING**	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	8.46 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.96 GAL	**DRAWDOWN/ TOTAL PURGED**	0.55	**PRESSURE TO PUMP**	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
—	BEGIN PURGING									
1210	35.08	150	18.75	0.637	4.05	7.42	180	450	42'	
1215	35.23	150	18.56	0.634	3.81	7.42	181	427	42'	
1220	35.32	150	18.26	0.633	3.52	7.42	182	409	42'	
1225	35.49	150	18.13	0.634	3.35	7.42	184	391	42'	
1230	35.59	150	18.33	0.636	3.55	7.41	185	385	42'	
1235	35.70	150	18.53	0.637	3.48	7.41	186	357	42'	
1240	35.79	150	18.83	0.637	3.54	7.40	186	365	42'	
1245	35.89	150	18.76	0.637	3.49	7.40	187	360	42	
1250	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☒ LDPE TUBING
☐ OTHER
☐ OTHER

☒ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☒ WL METER
☐ PID
☒ WQ METER
☐ TURB. METER
☒ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B		No	HCl	80 mL	NO
☒	1,4-Dioxane	8270D SIM		No	-----	2 L	NO
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [x] NO [ ]
NO-PURGE METHOD UTILIZED: YES [ ] NO [x]
NUMBER OF GALLONS GENERATED: ~4

NOTES PID readings collected during gauging event before sampling

Sample ~~[illegible]~~ Turbid + odorless

Sampler Signature: [signature] Print Name: Isaac Mosier

Checked By: Date: 8/30/23

DEVIATIONS FROM THE WORK PLAN

N/A

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd. Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	350623- MW-11B
SAMPLE TIME	1600
LOCATION ID	MW-11B
DATE	8/30/23
START TIME	1450
END TIME	1602
SITE NAME/INSTALLATION	356023
PAGE	1 OF

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☑ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☑ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	40.56 FT	FINAL DTW (BMP)	40.64 FT	PROT. CASING STICKUP (AGS)	1.5' FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1505	BEGIN PURGING									
1510	40.59 ~~22.80~~	200	23.18	0.426	0.12	7.41	-148	232	18' from bottom	~190'
1515	40.59	200	19.24	0.439	0.00	7.34	-144	273	"	
1520	40.59	~~450~~ 200	18.05	0.443	0.00	7.33	-142	1000	"	Turn up Rate after NTU reaches 1000
1525	40.63	450	15.56	0.450	0.00	7.28	-140	515	"	
1530	40.63	450	15.55	0.451	0.00	7.25	-141	326	"	
1535	40.64	450	15.50	0.452	0.00	7.23	-141	373	"	
1540	40.64	450	15.64	0.452	0.00	7.23	-140	386		
1545	40.64	450	15.48	0.451	0.00	7.28	-141	312		
1550	40.64	450	15.40	0.451	0.00	7.28	-141	286		
1555	40.64	450	15.38	0.451	0.00	7.28	-140	287		
1600	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	15.38	0.451	0.00	7.28	-140	287

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☑ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☑ ALCONOX
☑ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☑ LDPE TUBING
☐ OTHER
☐ OTHER

☑ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☑ WL METER
☐ PID
☑ WQ METER
☐ TURB. METER
☑ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260B		No	HCl	80 mL x 4	MS/MSD + DUP
1,4-Dioxane	8270D SIM		No	-----	2 L x 4	MS/MSD + DUP

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED: ___

NOTES: PID readings collected during gauging event before sampling
Sample much deeper than before, Turb high, -well may need to be redeveloped

Sampler Signature: Isaac Mosor Print Name: Isaac Mosor

Checked By: Date: 8/30/23

DEVIATIONS FROM THE WORK PLAN: N/A

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohonk Rd Industrial Plant		LOCATION ID: ERT-4	DATE: 11/8/23
PROJECT NUMBER: 7772210116		START TIME: 1200	END TIME: 1340
SAMPLE ID: 356023-ERT-4	SAMPLE TIME: 1325	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☑ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☑ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☑ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED		✓	
COLLAR		✓	

INITIAL DTW (BMP)	28.14 FT	FINAL DTW (BMP)	28.45 FT	PROT. CASING STICKUP (AGS)	2.5 FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	45.40 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	17.26 FT	DRAWDOWN VOLUME	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL	GAL	TOTAL VOL. PURGED	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

(final DTW- initial DTW X well diam. squared X 0.041)

(water column X well diameter^2 X 0.041)

(mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1225	BEGIN PURGING									
1230	28.40	200	13.42	0.476	4.53	7.26	72	800		
1235	28.45	200	13.50	0.474	4.95	7.25	71	369		
1240	28.44	200	13.38	0.476	4.70	7.26	70	359		
1245	28.44	200	13.21	0.476	4.75	7.26	71	335		
1250	28.44	200	13.25	0.474	4.60	7.25	71	348		
1255	28.44	200	13.34	0.476	4.47	7.26	71	313		
1300	28.44	200	13.38	0.475	4.44	7.27	71	355		
1305	28.45	200	13.44	0.476	4.66	7.27	70	325		
1310	28.45	200	13.37	0.477	4.67	7.27	70	293		
1315	28.45	200	13.25	0.477	4.56	7.28	69	289		
1320	28.45	200	13.31	0.476	4.62	7.28	70	283		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☑ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☑ ALCONOX
- ☑ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☑ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☑ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☑ WL METER
- ☐ PID
- ☑ WQ METER
- ☐ TURB. METER
- ☑ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ✓ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
✓	VOCs	8260		NO	HCl	80 mL	NO
✓	1,4 Dioxane	8270 SIM		NO	None	2 L	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☑ YES ☐ NO — NUMBER OF GALLONS GENERATED:

NO-PURGE METHOD UTILIZED: ☐ YES ☑ NO

NOTES: Sample Turbid + odorless

Sampler Signature: Isaac Moses Print Name: Isaac Moses

Checked By: Date: 11/8/2023

DEVIATIONS FROM THE WORK PLAN

N/A

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mahoney Rd Industrial Plant		LOCATION ID: MW-4	DATE: 11/8/23
PROJECT NUMBER: 7772210116		START TIME: 1030	END TIME: 1135
SAMPLE ID: 356023-MW-4	SAMPLE TIME: 1120	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☑ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☑ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED		X	
COLLAR			X

INITIAL DTW (BMP)	5.07 FT	FINAL DTW (BMP)	6.99 FT	PROT. CASING STICKUP (AGS)	2 FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	21.69 FT	SCREEN INTERVAL	unk FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	16.62 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED	1.72'	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1040	BEGIN PURGING									
1045	5.96	200	14.26	0.655	1.50	6.79	90	215		
1050	6.25	200	14.38	0.658	1.15	6.81	89	240		
1055	6.65	200	14.54	0.661	0.93	6.84	88	260		
1100	6.82	200	14.56	0.662	0.70	6.87	87	251		
1105	6.91	150	14.73	0.658	0.60	6.90	85	240		
1110	6.96	150	14.83	0.652	0.63	6.92	82	232		
1115	6.99	150	14.84	0.652	0.61	6.93	81	230		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☑ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☑ ALCONOX
- ☑ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☑ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☑ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☐ WL METER
- ☐ PID
- ☑ WQ METER
- ☐ TURB. METER
- ☑ PUMP
- ☐ OTHER
- ☐ FILTERS NO. X TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☑	VOCs	8260		NO	HCl	80 mL	NO
☑	1,4 Dioxane	8270 SIM		NO	None	2 L	NO

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☑ YES ☐ NO

NUMBER OF GALLONS GENERATED:

NO-PURGE METHOD UTILIZED: ☐ YES ☑ NO

NOTES: 200 mL/min was lowest achievable rate w/monsoon set up I had until water level Dropped

Sampler Signature: Isaac Moses Print Name: Isaac Moses

Checked By: Date: 11/8/2023

DEVIATIONS FROM THE WORK PLAN: N/A

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Industrial Road		LOCATION ID: MW-5B	DATE: 11/9/23
PROJECT NUMBER:		START TIME: 0910	END TIME: 1025
SAMPLE ID: 356023-MW-5B	SAMPLE TIME: 1005	SITE NAME/INSTALLATION:	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	27.30 FT	FINAL DTW (BMP)	27.52 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	36.2 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	8.90 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	1.459L GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0928	BEGIN PURGING									
0933	27.45	250	10.37	.607	9.38	6.74	86	17.3	32	
0938	27.52	250	11.01	.616	8.67	6.81	68	12.1		
0943	27.50	250	10.91	.614	8.27	6.86	74	6.7		
0948	27.51	250	11.04	.612	8.02	6.88	83	4.0		
0953	27.53	250	11.03	.612	7.75	6.88	91	4.1		
0958	27.57	250	11.25	.614	7.49	6.89	100	2.0		
1003	27.59	250	11.54	.621	7.17	6.89	109	1.7		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☒ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☒ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☒ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260		no	HCl	80mL	
☒	1,4 Dioxane	8270		no	—	2L	
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☒

NUMBER OF GALLONS GENERATED:

NOTES

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk RV Industrial Plant		LOCATION ID: MW-11B	DATE: 11/18/13
PROJECT NUMBER:		START TIME: 1330	END TIME: 1445
SAMPLE ID: 356023-MW-11B-176	SAMPLE TIME:	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	38.44 FT	FINAL DTW (BMP)	38.43 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	181 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	142.56 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	210.42 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1300	BEGIN PURGING									
1305	38.42	250	11.66	.588	8.53	7.24	-85	36.0	176	
1310	38.42	250	11.68	.597	7.21	7.21	-81	87.9	176	
1315	38.42	250	11.82	.586	5.70	7.22	-89	503		
1320	38.45	250	11.62	.597	3.91	7.23	-99	649		
1325	38.45	250	11.78	.597	3.47	7.35	-105	531		
1330	38.49	250	11.11	.595	2.08	7.27	-110	444		
1335	38.49	250	12.35	.593	1.80	7.17	-113	404		
1340	38.47	250	11.76	.596	1.64	7.27	-113	364		
1345	38.47	250	12.48	.587	1.51	7.27	-112	337		
1350		250	12.49	.589	1.39	7.27	-111	319		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☒ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☒ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B		NO	HCl	8L	
☒	1,4 Dioxane	8270 SIM		NO	—	320ml	

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☒

NUMBER OF GALLONS GENERATED:

NOTES: DUP, MS/MSD taken

Sampler Signature: Print Name: Ryan Omsha

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME		LOCATION ID	DATE
Mohonk Rd. Indstrial Plant		MW-12B	11/8/13
PROJECT NUMBER		**START TIME**	**END TIME**
7772210116		1030	1210
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/INSTALLATION**	**PAGE**
350623-	~~1100~~ 1150	356023	1 OF 1

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	10.75 FT	**FINAL DTW (BMP)**	10.79 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	200 FT	**SCREEN INTERVAL**	FT	**PID AMBIENT AIR**	NA PPM	**REFILL TIMER SETTING**	NA SEC
WATER COLUMN	189.25 FT	**DRAWDOWN VOLUME** (final DTW- initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	NA PPM	**DISCHARGE TIMER SETTING**	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	279.33 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1052	BEGIN PURGING									
1057	10.78	250	11.82	.543	10.81	6.79	-26	8.8	195	
1102	10.82	250	12.85	.557	9.13	6.77	8	17.0		
1107	10.83	250	13.19	.607	7.79	6.87	-55	15.6		
1112	10.84	250	13.41	.586	6.28	6.86	-53	14.1		
1117	10.84	250	13.47	.595	5.96	6.85	-44	13.5		
1122	10.84	250	13.61	.557	5.34	6.83	-37	13.4		
1127	10.82	250	13.64	.541	4.71	6.82	-37	13.3		
1132	10.84	250	13.70	.535	4.20	6.81	-17	10.0		
1137	10.85	250	13.70	.531	3.82	6.81	-8	10.4		
1142	10.85	250	13.76	.531	3.58	6.80	-5	10.3		
1147	10.85	250	13.68	.529	3.27	6.80	-4	9.7		

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☒ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☐ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B		No	HCl	2L	
☒	1,4-Dioxane	8270D SIM		No	-----	80mL	
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☒	☐
NO-PURGE METHOD UTILIZED	☐	☒

NUMBER OF GALLONS GENERATED: 5.5

NOTES PID readings collected during gauging event before sampling

Sampler Signature: Print Name: Ryan Ouellette

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd. Industrial Park		LOCATION ID: MW-15B	DATE: 11/8/2023
PROJECT NUMBER: 7772210116		START TIME: 0810	END TIME: 0910
SAMPLE ID: 356023-MW-15B	SAMPLE TIME: 0910	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 x ☒ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP		X	
CASING	X		
LOCKED	X		
COLLAR	X		

INITIAL DTW (BMP)	11.27 FT	FINAL DTW (BMP)	11.72 FT	PROT. CASING STICKUP (AGS)	2 FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	150 FT	SCREEN INTERVAL	N/A FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	138.73 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	204 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED	0.45	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
0837	BEGIN PURGING									
0842	11.71	250	10.57	.508	1.08	6.79	12	102	145	
0847	11.67	250	10.52	.507	1.03	6.85	27	76.5		
0852	11.69	250	10.57	.507	1.11	6.89	36	63.0		
0857	11.72	250	10.55	.506	1.09	6.90	41	61.7		
0902	11.71	250	10.57	0.506	1.06	6.91	44	59.3		
0907	11.72	250	10.60	0.506	1.07	6.92	45	58.4		
0910 Sample										

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☒ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☒ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☐ PID
- ☒ WQ METER
- ☐ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. X TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOC	8260		NO	HCl	80mL	NO
☒	1,4 Dioxane	8270 SIM		NO	None	2 L	NO
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐ NUMBER OF GALLONS GENERATED:

NO-PURGE METHOD UTILIZED: YES ☐ NO ☒

NOTES

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: MRIP		LOCATION ID: ERT-1	DATE: 11/8/23
PROJECT NUMBER: 7772210116		START TIME: 1510	END TIME: 1520
SAMPLE ID: 356023-ERT-1	SAMPLE TIME: 1520	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

SAMPLE TYPE: [✓] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1517	—	—	12.72	0.338	3.27	7.17	77	9.7	—	Recovery Well

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [✓] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] PDB
- [ ] HYDRASLEEVE _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID N/A
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING N/A
- [ ] OTHER _____
- [ ] OTHER _____

- [✓] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [✓] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. 4 TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
[✓]	VOC	8260		No	HCl	80 mL	No
[✓]	1,4 Dioxane	8270 SIM		No	None	2 L	No
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [✓] NO [ ]
NO-PURGE METHOD UTILIZED: YES [ ] NO [✓]
NUMBER OF GALLONS GENERATED: 5

NOTES:

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN:

N/A

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: MRIP	LOCATION ID: MW-5R
PROJECT NUMBER: 7772210116	DATE: 11/8/23
SAMPLE ID: 356023-MW-5R	SAMPLE TIME: 1530
START TIME: 1520	END TIME: 1530
SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

SAMPLE TYPE: [x] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1527	—	—	12.46	0.363	3.48	7.24	95	1.6	—	Recovery Well

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [x] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] PDB
- [ ] HYDRASLEEVE _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE N/A
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING N/A
- [ ] OTHER _____
- [ ] OTHER _____

- [x] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [x] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. X TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
[x]	VOC	8260		No	HCl	80 mL	No
[x]	1,4 Dioxane	8270		No	None	2 L	No
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [x] NO [ ]
NO-PURGE METHOD UTILIZED: YES [ ] NO [x]
NUMBER OF GALLONS GENERATED: 5

NOTES:

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN:

N/A

GRAB SAMPLING RECORD - WATER

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: MRIP		LOCATION ID: MW-7R	DATE: 11/8/23
PROJECT NUMBER: 7772210116		START TIME: 1530	END TIME: 1540
SAMPLE ID: 356023-MW-7R	SAMPLE TIME: 1540	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

SAMPLE TYPE: [✓] GROUNDWATER [ ] SURFACE WATER [ ] STORM WATER [ ] DRINKING WATER [ ] PORE WATER [ ] OTHER: _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1537	—	—	12.25	0.321	2.52	7.21	78	1.7	—	Recovery Well

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [✓] SUBMERSIBLE
- [ ] BLADDER _____
- [ ] PDB
- [ ] HYDRASLEEVE
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] ALCONOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID N/A
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] HDPE TUBING
- [ ] LDPE TUBING N/A
- [ ] OTHER _____
- [ ] OTHER _____
- [✓] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [ ] WL METER _____
- [ ] PID _____
- [✓] WQ METER _____
- [ ] TURB. METER _____
- [ ] PUMP _____
- [ ] OTHER _____
- [ ] FILTERS NO. X TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
[✓]	VOC	8260		No	HCl	80 mL	No
[✓]	1,4 Dioxane	8270		No	None	2 L	No
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							
[ ]							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[✓]	[ ]
NO-PURGE METHOD UTILIZED	[ ]	[✓]

NUMBER OF GALLONS GENERATED: 5

NOTES:

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN:

N/A

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd. Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	350623- MW-4
SAMPLE TIME	1220
LOCATION ID	MW-4
DATE	11/30/23
START TIME	1130
END TIME	1218
SITE NAME/INSTALLATION	356023
PAGE	1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☑ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☑ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	3.65' FT	FINAL DTW (BMP)	6.73 FT	PROT. CASING STICKUP (AGS)	2 FT	TOC/TOR DIFFERENCE	– FT
WELL DEPTH (BMP)	21.69 FT	SCREEN INTERVAL	UNK FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	18.04 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	0.150 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter^2 X 0.041)	0.29 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.37 GAL	DRAWDOWN/ TOTAL PURGED	0.36	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1143	BEGIN PURGING									
1148	5.09	200	14.27	0.000	7.02	5.29	236	320	19'	Well in Fair Condition Water Turbid
1153	6.20	150	13.98	0.601	6.79	6.80	201	235	|	Turbid
1158	6.39	150	13.31	0.601	0.92	6.86	192	188	|	Turbid
1203	6.48	150	13.33	0.602	0.73	6.86	186	166	|	Turbid
1208	6.62	150	13.57	0.6006	0.60	6.87	179	125	|	Turbid – AMBIENT TEMP RISING
1213	6.69	150	13.57	0.611	0.60	6.87	174	122	|	Turbid
1218	6.73	150	13.58	0.612	0.58	6.86	173	119	|	Cloudy but Transparent

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

13.58	0.612	0.58	6.86	173	119	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☑ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☑ ALCONOX
- ☑ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☑ LDPE TUBING
- ☐ OTHER
- ☐ OTHER
- ☑ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☑ WL METER
- ☐ PID
- ☑ WQ METER
- ☐ TURB. METER
- ☑ PUMP
- ☐ OTHER
- ☐ FILTERS NO. X TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
X	VOCs	8260B		No	HCl	80 mL	Duplicate
	1,4-Dioxane	8270D SIM		No	-----		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [x] NO [ ]

NO-PURGE METHOD UTILIZED: YES [ ] NO [x]

NUMBER OF GALLONS GENERATED: ~1.4 gal

NOTES PID readings collected during gauging event before sampling

Duplicate Sample collected @ MW-4
356023-MW-DUP @ —

DEVIATIONS FROM THE WORK PLAN

N/A

Sampler Signature: Isaac Moser Print Name: Isaac Moser

Checked By: Date: 11/30/23

REV 3.29.2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd. Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	356023-MW-15B
SAMPLE TIME	1310
LOCATION ID	MW-15B
DATE	11/30/
START TIME	1030
END TIME	1246
SITE NAME/INSTALLATION	356023
PAGE	1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☑ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☑ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	12.01 FT	FINAL DTW (BMP)	12.28 FT	PROT. CASING STICKUP (AGS)	2 FT	TOC/TOR DIFFERENCE	— FT
WELL DEPTH (BMP)	150 FT	SCREEN INTERVAL	open bore FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	137.99 FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	.399 GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	203.67 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	1.95 GAL	DRAWDOWN/ TOTAL PURGED	.138	PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1120	BEGIN PURGING									
1125	12.26	150	11.58	.290	1.74	6.90	168	25.4	145	
1130	12.34	150	11.50	.292	1.39	7.40	152	47.3		
1135	12.32	150	11.46	.292	1.19	7.40	154	29.1		
1140	12.31	150	11.51	.294	1.20	7.44	153	38.3		
1145	12.29	150	11.10	.293	1.14	7.47	154	42.6		
1150	12.33	150	11.48	.296	1.22	7.47	152	49.2		
1155	12.38	150	11.55	.296	1.13	7.49	150	47.6		
1200	12.36	150	11.53	.297	1.13	7.50	148	47.3		
1205	12.37	150	11.51	.297	1.12	7.49	147	48.5		
1210	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☒ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☒ ALCONOX
- ☒ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☐ HDPE TUBING
- ☒ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☒ S. STEEL PUMP MATERIAL
- ☐ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☒ WL METER
- ☐ PID
- ☒ WQ METER
- ☒ TURB. METER
- ☒ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B		No	HCl	240 mL	Yes MS/MSD
	1,4-Dioxane	8270D SIM		No	-----	240	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: ☒ YES ☐ NO

NO-PURGE METHOD UTILIZED: ☐ YES ☒ NO

NUMBER OF GALLONS GENERATED: ≈3 gal

NOTES PID readings collected during gauging event before sampling

Sampler Signature:

Print Name: Ryan Onsbee

Checked By:

Date:

DEVIATIONS FROM THE WORK PLAN

REV 12/2018

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohonk Rd Industrial Plant		LOCATION ID: MW-15B	DATE: 3/7/14
PROJECT NUMBER: 7772210116		START TIME: 0920	END TIME: 1130
SAMPLE ID: 350623-MW-15B	SAMPLE TIME: 1045	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☒ 4 (R2) ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

INITIAL DTW (BMP)	11.31 FT	FINAL DTW (BMP)	11.90 FT	PROT. CASING STICKUP (AGS)	2 FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	150 FT	SCREEN INTERVAL	open work FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	138.69 FT	DRAWDOWN VOLUME	GAL (final DTW - initial DTW X well diam. squared X 0.041)	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	204.71 GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1005	BEGIN PURGING									
1010	11.35	200	8.99	.546	1.92	7.65	191	18.1	145	
1015	11.50	↓	9.59	.589	1.93	7.91	170	5.8	↓	
1020	11.61		9.71	.593	1.57	8.04	156	5.5		
1025	11.67		9.70	.595	1.51	8.09	148	5.3		
1030	11.70		9.66	.596	1.63	8.11	139	5.8		
1035	11.72		9.63	.597	1.55	8.03	133	6.0		
1040	11.73	↓	9.71	.597	1.57	8.09	125	4.0	↓	
1045	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	10	0.60	1.6	8.1	125	4.0

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.55 = 5.5)
DO: nearest tenth (ex. 7.51 = 7.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☐ PERISTALTIC ☒ SUBMERSIBLE ☐ BLADDER ☐ WATTERA ☐ OTHER ☐ OTHER

DECON FLUIDS USED: ☒ ALCONOX ☒ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS: ☐ SILICON TUBING ☐ HDPE TUBING ☒ LDPE TUBING ☐ OTHER ☐ OTHER

☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ☒ WL METER ☐ PID ☒ WQ METER ☒ TURB. METER ☒ PUMP ☐ OTHER ☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒	VOCs	8260B		No	HCl		MS
☒	1,4-Dioxane	8270D SIM		No	—		MS

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☒ NO ☐

NUMBER OF GALLONS GENERATED: ≈3.5

NO-PURGE METHOD UTILIZED: YES ☐ NO ☒

NOTES: PID readings collected during gauging event before sampling

Sampler Signature: [signature] Print Name: Ryan Omsker

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2010

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohawk Rd Industrial Plant		LOCATION ID: MW-11B	DATE: 3/17/24
PROJECT NUMBER: 7772210116		START TIME: 1230	END TIME: 1415
SAMPLE ID: 356023-MW-11B	SAMPLE TIME: 1340	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☒ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR		✓	

INITIAL DTW (BMP)	32.06 FT	FINAL DTW (BMP)	32.05 FT	PROT. CASING STICKUP (AGS)	1.5 FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	200 FT	SCREEN INTERVAL	open bore FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1345	BEGIN PURGING									
1350	32.08	200	10.23	.745	1.72	8.34	-84	160	190	
1355	32.08		10.59	.752	.46	8.36	-110	1000		
1300	32.10		10.76	.741	.27	8.54	-126	860		
1305	32.11		10.77	.733	.35	8.57	-126	951		
1310	32.13		10.78	.728	.33	8.59	-126	858		
1315	32.13		10.88	.735	.31	8.60	-126	889		
1320	32.13		11.03	.741	.28	8.62	-127	774 732		
1325	32.14		11.30	.708	.27	8.66	-126	663		
1330	32.15		11.49	.703	.35	8.68	-126	634		
1335	32.15		11.66	.676	.24	8.73	-126	584		
1340	Sample									

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.55 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☒ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☒ ALCONOX
☒ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☒ LDPE TUBING
☐ OTHER
☐ OTHER

☒ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☒ TURB. METER
☒ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE ___

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
X	VOCs	8260B		No	HCl		
X	1,4-Dioxane	8270D SIM		No	—		

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED:

NOTES: PID readings collected during gauging event before sampling
MS/MSD + DUP taken

Sampler Signature: Ryan Omsker Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

REV 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohonk Rd. Industrial Plant		LOCATION ID: MW-5R	DATE: 2/8/24
PROJECT NUMBER: 7772210116		START TIME:	END TIME:
SAMPLE ID: 350623-MW-5R	SAMPLE TIME: 0930	SITE NAME/INSTALLATION: 356023	PAGE: OF

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
	BEGIN PURGING									
0930			9.07	.659	6.29	7.55	186	0.0		

6 BAGS

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP: tenth degree (ex. 10.1 = 10)
COND: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☐ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	VOCs	8260B		No	HCl		
☐	1,4-Dioxane	8270D SIM		No	—		
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED:

NOTES: PID readings collected during gauging event before sampling

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

REV 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohonk Rd. Industrial Plant	LOCATION ID: ERT-1
PROJECT NUMBER: 7772210116	DATE: 7/18/24
SAMPLE ID: 356023-ERT-1	START TIME:
SAMPLE TIME: 0920	END TIME:
SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT
WELL DEPTH (BMP)	FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED	

TOC/TOR DIFFERENCE	FT
REFILL TIMER SETTING	NA SEC
DISCHARGE TIMER SETTING	NA SEC
PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
	BEGIN PURGING									
0920			9.43	.633	6.04	7.67	191	0.0		
			GRAB							

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB.: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: ☐ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATTERA ☐ OTHER ☐ OTHER

DECON FLUIDS USED: ☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS: ☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☐ OTHER

☐ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED: ☐ WL METER ☐ PID ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260B		No	HCl		
1,4-Dioxane	8270D SIM		No	—		

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED:

NOTES: PID readings collected during gauging event before sampling

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohonk Rd. Industrial Plant		LOCATION ID: MW-7R	DATE: 2/8/19
PROJECT NUMBER: 7772210116		START TIME:	END TIME:
SAMPLE ID: 356023-MW-7R	SAMPLE TIME: 0910	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.): ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES): ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP): ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
	BEGIN PURGING									
0910			8.36	.681	7.17	7.56	211	3.7		
		GRAB								

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.3 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☐ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260B		No	HCl		
1,4-Dioxane	8270D SIM		No	---		

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED:

NOTES: PID readings collected during gauging event before sampling

Sampler Signature: Print Name:

Checked By: Date:

DEVIATIONS FROM THE WORK PLAN

REV. 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME		LOCATION ID	DATE
Mohonk Rd Indstrial Plant			2/8/24
PROJECT NUMBER		START TIME	END TIME
7772210116		0910	0945
SAMPLE ID	SAMPLE TIME	SITE NAME/INSTALLATION	PAGE
350623- MW-12B	0945	356023	OF

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	—	—	—
CASING	—	—	—
LOCKED	—	—	—
COLLAR	—	—	—

INITIAL DTW (BMP)	9.08 FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	200+ FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW - initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
0910	BEGIN PURGING									
0915	9.07	250	8.76	.514	0.05	6.67	117	17.4	125	—
0920	9.05	250	9.30	.517	0.0	6.79	138	8.1	125	—
0925	9.05	250	9.41	.514	0.0	6.82	126	7.0	125	—
0930	9.05	250	9.66	.514	0.0	6.83	123	7.7	125	—
0935	9.05	250	9.91	.511	0.0	6.84	119	8.4	125	—
0940	9.05	250	10.14	.510	0.0	6.85	117	9.2	125	—
0945	9.05	250	10.21	.508	0.0	6.85	117	7.6	125	—

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

10.21	.508	0.0	6.85	117	7.6	

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
pH nearest tenth (ex. 5.53 = 5.5)
DO nearest tenth (ex. 3.51 = 3.5)
TURB 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☐ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER

☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO ___ TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260B		No	HCl		
1,4-Dioxane	8270D SIM		No	—		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES [X] NO [ ]
NUMBER OF GALLONS GENERATED
NO-PURGE METHOD UTILIZED YES [ ] NO [X]

NOTES PID readings collected during gauging event before sampling

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Print Name:

Checked By: Date:

REV. 3/29/201

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd. Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	350623- MW-5B
SAMPLE TIME	1345
LOCATION ID	
DATE	2/7/24
START TIME	1310
END TIME	1345
SITE NAME/INSTALLATION	356023
PAGE	1 OF 1

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	—	—	—
CASING	—	—	—
LOCKED	—	—	—
COLLAR	—	—	—

INITIAL DTW (BMP)	25.71 FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- intial DTW X well diam squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1310	BEGIN PURGING									
1316	26.13	250	10.45	.543	7.54	7.09	128	6.8	31	—
1320	26.16	250	10.47	.544	6.63	7.11	128	6.8	31	—
1325	26.17	250	10.53	.546	6.14	7.13	131	5.7	31	
1330	26.17	250	10.52	.547	6.03	7.14	134	5.1	31	
1335	26.18	250	10.42	.549	5.62	7.13	136	4.6	31	
1340	26.19	250	10.43	.550	5.31	7.13	136	4.5	31	
1345	26.20	250	10.44	.551	5.03	7.13	135	4.3	31	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

10.44	.551	5.03	7.13	135	4.3	

TEMP nearest degree (ex. 10.1 = 10)
COND 3 significant figure max (ex. 1.686 = 1.69)
pH nearest tenth (ex. 5.53 = 5.5)
DO nearest tenth (ex. 3.51 = 3.5)
TURB 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP 2 SF (44.1 = 44 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☐ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	VOCs	8260B		No	HCl		
☐	1,4-Dioxane	8270D SIM		No	—		
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	X	
NO-PURGE METHOD UTILIZED		X

NUMBER OF GALLONS GENERATED ____

NOTES PID readings collected during gauging event before sampling

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: Date: 2/7/24

REV 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME: Mohonk Rd. Indstrial Plant		LOCATION ID	DATE: 2/7/24
PROJECT NUMBER: 7772210116		START TIME: 1055	END TIME: 1145
SAMPLE ID: 350623- ERT-4	SAMPLE TIME: 1145	SITE NAME/INSTALLATION: 356023	PAGE: 1 OF 1

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	FT	FINAL DTW (BMP)	FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
1055	BEGIN PURGING									
1100	27.26	250	10.90	.731	9.41	7.22	101	381	42	
1105	27.49	300	10.54	.734	8.74	7.25	112	352	42	
1110	27.34	250	10.58	.732	8.54	7.25	120	324	42	
1115	27.35	250	10.63	.733	8.38	7.26	126	244	42	
1120	27.35	250	10.62	.733	8.32	7.26	128	235	42	
1125	27.36	250	10.61	.732	8.19	7.26	130	190	42	
1130	27.38	250	10.67	.733	8.16	7.25	130	161	42	
1135	27.40	250	10.70	.734	7.91	7.25	133	160	42	
1140	27.41	250	10.64	.735	7.60	7.24	134	149	42	
1145	27.43	250	10.66	.735	7.14	7.24	135	142	42	

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	10.66	.735	7.14	7.24	135	142

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
☐ PERISTALTIC
☐ SUBMERSIBLE
☐ BLADDER
☐ WATTERA
☐ OTHER
☐ OTHER

DECON FLUIDS USED
☐ ALCONOX
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ METHANOL
☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
☐ SILICON TUBING
☐ HDPE TUBING
☐ LDPE TUBING
☐ OTHER
☐ OTHER
☐ S. STEEL PUMP MATERIAL
☐ PVC PUMP MATERIAL
☐ GEOPROBE SCREEN
☐ OTHER
☐ OTHER
☐ OTHER

EQUIPMENT USED
☐ WL METER
☐ PID
☐ WQ METER
☐ TURB. METER
☐ PUMP
☐ OTHER
☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
VOCs	8260B		No	HCl		
1,4-Dioxane	8270D SIM		No	—		

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED:

NOTES: PID readings collected during gauging event before sampling

DEVIATIONS FROM THE WORK PLAN

Sampler Signature: Mark Fleming Print Name: Mark Fleming

Checked By: Date: 2/7/24

REV 3/29/2019

LOW FLOW GROUNDWATER SAMPLING RECORD

MACTEC

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME	Mohonk Rd Indstrial Plant
PROJECT NUMBER	7772210116
SAMPLE ID	350623-MW-4
SAMPLE TIME	1015
LOCATION ID	
DATE	2/7/24
START TIME	0920
END TIME	1020
SITE NAME/INSTALLATION	356023
PAGE	1 OF 1

WELL DIAMETER (IN.) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	—	—	—
CASING	—	—	—
LOCKED	—	—	—
COLLAR	—	—	—

INITIAL DTW (BMP)	6.97 FT	FINAL DTW (BMP)	7.05 FT	PROT. CASING STICKUP (AGS)	FT	TOC/TOR DIFFERENCE	FT
WELL DEPTH (BMP)	21.61 FT	SCREEN INTERVAL	FT	PID AMBIENT AIR	NA PPM	REFILL TIMER SETTING	NA SEC
WATER COLUMN	FT	DRAWDOWN VOLUME (final DTW- initial DTW X well diam. squared X 0.041)	GAL	PID WELL MOUTH	NA PPM	DISCHARGE TIMER SETTING	NA SEC
CALCULATED GAL/VOL (water column X well diameter² X 0.041)	GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	GAL	DRAWDOWN/ TOTAL PURGED		PRESSURE TO PUMP	NA PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O_2 (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% or <10 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS (well condition/water quality/color/odor)
0920	BEGIN PURGING									
0925	6.71	250	7.95	1.05	0.50	6.80	127	82.4	18	—
0930	6.98	250	7.53	1.05	0.26	6.86	115	48.7	18	—
0935	6.99	250	7.43	1.05	0.0	6.87	97	38.6	18	—
0940	7.00	250	7.57	1.05	0.0	6.86	76	34.7	18	—
0945	7.02	250	7.59	1.05	0.0	6.85	32	23.6	18	—
0950	7.02	250	7.69	1.05	0.0	6.88	-13	20.7	18	
0955	7.03	250	7.79	1.05	0.0	6.86	-25	19.1	18	—
1000	7.03	250	7.81	1.05	0.0	6.86	-31	14.3	18	—
1005	7.04	250	7.97	1.05	0.0	6.87	-36	14.1	18	—
1010	7.04	250	7.98	1.05	0.0	6.87	-37	13.8	18	
1015	7.05	250	7.96	1.05	0.0	6.86	-38	13.9	18	—

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

	7.96	1.05	0.0	6.86	-38	13.9

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 significant figure max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SI max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SI (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☑ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ BLADDER
- ☐ WATTERA
- ☐ OTHER
- ☐ OTHER

DECON FLUIDS USED
- ☑ ALCONOX
- ☐ DEIONIZED WATER
- ☐ POTABLE WATER
- ☐ NITRIC ACID
- ☐ HEXANE
- ☐ METHANOL
- ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS
- ☐ SILICON TUBING
- ☑ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

- ☐ S. STEEL PUMP MATERIAL
- ☑ PVC PUMP MATERIAL
- ☐ GEOPROBE SCREEN
- ☐ OTHER
- ☐ OTHER
- ☐ OTHER

EQUIPMENT USED
- ☐ WL METER
- ☐ PID
- ☐ WQ METER
- ☐ TURB. METER
- ☐ PUMP
- ☐ OTHER
- ☐ FILTERS NO. ___ TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☐	VOCs	8260B		No	HCl		
☐	1,4-Dioxane	8270D SIM		No	—		
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	x	
NO-PURGE METHOD UTILIZED		x

NUMBER OF GALLONS GENERATED: ___

NOTES: PID readings collected during gauging event before sampling

Sampler Signature: [signature] Print Name: Mark Felong

Checked By: Date: 2/7/24

DEVIATIONS FROM THE WORK PLAN

REV 3/29/2019

APPENDIX E

Pilot Test Groundwater Sampling Category A Review Report

CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in January 2022 at Mohonk Road Industrial Plant in High Falls, New York, and analyzed by Pace Analytical Services located in Melville, New York, and Eurofins Lancaster Laboratories Env (ELLE) in Lancaster, Pennsylvania. Samples were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) methods:

- Volatile Organic Compounds (VOCs) by Method 8260C
- 1,4-Dioxane by Method 8270E-SIM

Results were reported in the following sample delivery groups (SDGs):
- 70201589
- 70201669

Sample event information included in this chemistry review is presented in the following Tables:
- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:
- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.
- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit
UJ = target analyte is not detected, value is estimated
J+ = Result is estimated, with a high bias

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meets the data quality objectives.

VOCs by 8260C

Laboratory Control Samples (LCS)

- The LCS/LCSD percent recovery for trans-1,3-dichloropropene (67) was less than project limits. Reporting limits for trans-1,3-dichloropropene in all samples were qualified estimated (UJ).Qualified results are listed in Table 3 with reason code LCSL.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

- The MS/MSD associated with sample 356023 – MW10B had percent recoveries for 1,2-dibromo-3-chloropropane (61/65) and trans-1,3-dichloropropene (62/64) that were less than project limits. The associated sample is non-detect for both analytes. Reporting limits were qualified estimated (UJ), and qualified results are listed in Table 3 with reason code MSL.

- The MS/MSD associated with sample 356023 – ERT4 had percent recoveries for 1,1-dichloroethane (144/153), 1,2-dichloroethane (136/140), chloroform (137/144), and cis-1,2-dichloroethene (136/141) that were greater than projects limits. Results were qualified estimated with potential high bias (J+) and are included in Table 3 with reason code MSH.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

USEPA, 2010. "Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D"; HW-22, Revision 5; USEPA Region II Hazardous Waste Support Branch; December 2010.

Data Validator: Casey Cormier



Date: March 4, 2022

Reviewed by: Julie Ricardi



Date: March 7, 2022

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANLYTICAL METHODS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

				Method Class	VOCs	SVOCs
				Analysis Method	EPA 8260C/5030C	SW8270E SIM
				Fraction	N	N
Location	**Field Sample Id**	**Media**	**Field Sample Date**	**QC Code**	Count	Count
ERT-1	356023 - ERT1	GW	1/19/2022	FS	48	1
ERT-4	356023 - ERT4	GW	1/20/2022	FS	48	1
MW-10B	356023 - DUP-01	GW	1/19/2022	FD	48	1
MW-10B	356023 - MW10B	GW	1/19/2022	FS	48	1
MW-11B	356023 - MW11B	GW	1/20/2022	FS	48	1
MW-12B	356023 - MW12B	GW	1/20/2022	FS	48	1
MW-14B	356023 - MW14B	GW	1/18/2022	FS	48	1
MW-15B	356023 - MW15B	GW	1/19/2022	FS	48	1
MW-16	356023 - MW16	GW	1/19/2022	FS	48	1
MW-1B	356023 - MW1B	GW	1/20/2022	FS	48	1
MW-4	356023 - MW4	GW	1/20/2022	FS	48	1
MW-5B	356023 - MW5B	GW	1/20/2022	FS	48	1
MW-5R	356023 - MW5R	GW	1/19/2022	FS	48	1
MW-6B	356023 - MW6B	GW	1/20/2022	FS	48	1
MW-7R	356023 - MW7R	GW	1/19/2022	FS	48	1
MW-8B	356023 - MW8B	GW	1/18/2022	FS	48	1
MW-9B	356023 - MW9B	GW	1/19/2022	FS	48	1
QC	356023 - EB1	BW	1/21/2022	EB	48	1
QC	356023 - TB1	BW	1/20/2022	TB	48	

Created by: SRC 2/21/2022
Checked by: CLC 3/2/2022

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	ERT-1		ERT-4		MW-10B	
		Field Sample Date	1/19/2022		1/20/2022		1/19/2022	
		Field Sample Id	356023 - ERT1		356023 - ERT4		356023 - DUP-01	
		Qc Code	FS		FS		FD	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	47.7		1530		1 U	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U		2.2		1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	12.4		46.8	J+	1 U	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	26.3		173		1 U	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U		3.2	J+	1 U	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	ERT-1		ERT-4		MW-10B	
		Field Sample Date	1/19/2022		1/20/2022		1/19/2022	
		Field Sample Id	356023 - ERT1		356023 - ERT4		356023 - DUP-01	
		Qc Code	FS		FS		FD	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U		1.1		1 U	
EPA 8260C/5030C	N	Chloroform	ug/L	1 U		1.3 J+		1 U	
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U		4 J+		1 U	
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Styrene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Toluene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ		1 UJ		1 UJ	
EPA 8260C/5030C	N	Trichloroethene	ug/L	6.1		120		1 U	
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U		3 U		3 U	
SW8270E SIM	N	1,4-Dioxane	ug/l	3		1.9		0.3 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-10B		MW-11B		MW-12B	
		Field Sample Date	1/19/2022		1/20/2022		1/20/2022	
		Field Sample Id	356023 - MW10B		356023 - MW11B		356023 - MW12B	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U		1 U		2.5	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1 U		3.5		8.9	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U		7		16.9	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 UJ		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-10B		MW-11B		MW-12B	
		Field Sample Date	1/19/2022		1/20/2022		1/20/2022	
		Field Sample Id	356023 - MW10B		356023 - MW11B		356023 - MW12B	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Styrene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Toluene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ		1 UJ		1 UJ	
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U		1.1		2.9	
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U		3 U		3 U	
SW8270E SIM	N	1,4-Dioxane	ug/l	0.3 U		1.2		2.3	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-14B		MW-15B		MW-16	
		Field Sample Date	1/18/2022		1/19/2022		1/19/2022	
		Field Sample Id	356023 - MW14B		356023 - MW15B		356023 - MW16	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U		10.2		3.2	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1.8		9.1		1.3	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U		19		6.6	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-14B		MW-15B		MW-16	
		Field Sample Date	1/18/2022		1/19/2022		1/19/2022	
		Field Sample Id	356023 - MW14B		356023 - MW15B		356023 - MW16	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Styrene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Toluene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ		1 UJ		1 UJ	
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U		1.4		1 U	
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U		3 U		3 U	
SW8270E SIM	N	1,4-Dioxane	ug/l	1.5		2.1		0.76	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-1B		MW-4		MW-5B	
		Field Sample Date	1/20/2022		1/20/2022		1/20/2022	
		Field Sample Id	356023 - MW1B		356023 - MW4		356023 - MW5B	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U		653		608	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1 U		28.8		15.8	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U		144		111	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U		1.6		1.5	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-1B		MW-4		MW-5B	
		Field Sample Date	1/20/2022		1/20/2022		1/20/2022	
		Field Sample Id	356023 - MW1B		356023 - MW4		356023 - MW5B	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U		8.3		1.1	
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Styrene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Toluene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ		1 UJ		1 UJ	
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U		253		40.5	
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U		3 U		3 U	
SW8270E SIM	N	1,4-Dioxane	ug/l	0.3 U		1.4		2	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-5R		MW-6B		MW-7R	
		Field Sample Date	1/19/2022		1/20/2022		1/19/2022	
		Field Sample Id	356023 - MW5R		356023 - MW6B		356023 - MW7R	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	55.6		4		57.7	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	6.9		1 U		50	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	27.9		1.8		13.2	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-5R		MW-6B		MW-7R	
		Field Sample Date	1/19/2022		1/20/2022		1/19/2022	
		Field Sample Id	356023 - MW5R		356023 - MW6B		356023 - MW7R	
		Qc Code	FS		FS		FS	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U		1 U		2	
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Styrene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Toluene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ		1 UJ		1 UJ	
EPA 8260C/5030C	N	Trichloroethene	ug/L	6.4		1 U		1.6	
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U		3 U		3 U	
SW8270E SIM	N	1,4-Dioxane	ug/l	1.8		0.48		1.5	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-8B		MW-9B		QC	
		Field Sample Date	1/18/2022		1/19/2022		1/20/2022	
		Field Sample Id	356023 - MW8B		356023 - MW9B		356023 - TB1	
		Qc Code	FS		FS		TB	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U		5 U		5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U		1 U		1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201589		70201589		70201589	
		Location	MW-8B		MW-9B		QC	
		Field Sample Date	1/18/2022		1/19/2022		1/20/2022	
		Field Sample Id	356023 - MW8B		356023 - MW9B		356023 - TB1	
		Qc Code	FS		FS		TB	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloroform	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Styrene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Toluene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ		1 UJ		1 U	
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U		1 U		1 U	
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U		3 U		3 U	
SW8270E SIM	N	1,4-Dioxane	ug/l	0.53		4.4			

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab SDG	70201669	
		Location	QC	
		Field Sample Date	1/21/2022	
		Field Sample Id	356023 - EB1	
		Qc Code	EB	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1 U
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U
EPA 8260C/5030C	N	Acetone	ug/L	5 U
EPA 8260C/5030C	N	Benzene	ug/L	1 U
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U
EPA 8260C/5030C	N	Bromoform	ug/L	1 U
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

			Lab SDG	70201669	
			Location	QC	
			Field Sample Date	1/21/2022	
			Field Sample Id	356023 - EB1	
			Qc Code	EB	
Analysis Method	**Fraction**	**Parameter**	**Units**	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U	
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U	
EPA 8260C/5030C	N	Chloroform	ug/L	1 U	
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U	
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U	
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U	
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U	
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U	
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U	
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U	
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U	
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U	
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U	
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U	
EPA 8260C/5030C	N	Styrene	ug/L	1 U	
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U	
EPA 8260C/5030C	N	Toluene	ug/L	1 U	
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U	
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 U	
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U	
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U	
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U	
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U	
SW8270E SIM	N	1,4-Dioxane	ug/l	0.3 U	

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

Lab SDG	Analysis Method	Loc Name	Lab Sample ID	Field Sample Date	Field Sample ID	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
70201589	EPA 8260C/5030C	MW-10B	495319	1/19/2022	356023 - DUP-01	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-1B	495328	1/20/2022	356023 - MW1B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-4	495329	1/20/2022	356023 - MW4	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-5B	495330	1/20/2022	356023 - MW5B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-16	495327	1/19/2022	356023 - MW16	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-5R	495331	1/19/2022	356023 - MW5R	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-7R	495333	1/19/2022	356023 - MW7R	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-8B	495334	1/18/2022	356023 - MW8B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-9B	495335	1/19/2022	356023 - MW9B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-6B	495332	1/20/2022	356023 - MW6B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-15B	495326	1/19/2022	356023 - MW15B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-14B	495325	1/18/2022	356023 - MW14B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-12B	495324	1/20/2022	356023 - MW12B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-11B	495323	1/20/2022	356023 - MW11B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	ERT-1	495320	1/19/2022	356023 - ERT1	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-10B	495322	1/19/2022	356023 - MW10B	N	1,2-Dibromo-3-chloropropane	1	U,v3	1	UJ	MSL	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	1,1-Dichloroethane	46.8	M1	46.8	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	1,2-Dichloroethane	3.2	M1	3.2	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	Chloroform	1.3	M0,L1	1.3	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	cis-1,2-Dichloroethene	4	M1	4	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-10B	495322	1/19/2022	356023 - MW10B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL, MSL	ug/L

Created by: SRC 3/1/2022
Checked by: GTD 3/4/2022

CATEGORY A REVIEW REPORT
JANUARY 2022 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk – High Falls NY
Method : SW-846 8260C
Laboratory: Pace Analytical **SDG(s): 70201589 & 70201669**
Date: 12/10/2021
Reviewer: Casey Cormier **Review Level** [X] CATEGORY A

1. [X] **Case Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted?

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. [X] **Holding time and Sample Collection**
   All samples were analyzed within the 14 day holding time. YES NO (circle one)

3. [X] **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. [X] **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within the Region II limits? YES NO NA (circle one)
   The MS/MSDs associated with samples 356023 – MW10B and 356023 – ERT4 reported numerous analytes outside of QC limits for %Rec and RPD.

5. [X] **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)
   Were all results were within Region II control limits? YES NO (circle one)
   LCS reported acetone and trichlorofluoromethane %Recs above project limits. All samples ND, no quals.
   The LCS %Rec for trans-1,3-dichloropropene was below project limits.

6. [X] **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)
   Were all results within Region II limits? YES NO (circle one)

7. [X] **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were all results within Region II Limits? YES NO NA (circle one)

8. [X] **Reporting Limits:**
   Were samples analyzed at a dilution? YES NO (circle one)
   In samples 356023 – MW5B and 356023 – MW4, 1,1,1-trichloroethane was ran at a five-fold dilution, elevated RLs are reported
   In sample 356023 – ERT4, 1,1,1-trichloroethane and 1,1-dichloroethene were ran at a 20-fold dilution, elevated RLs are reported
9. [X] **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one)

10. [X] **Table Review**
    Table 1 (Samples and Analytical Methods)
    Table 2 (Analytical Results)
    Table 3 (Qualification Actions)
    Were all tables produced and reviewed? YES NO (circle one)

    Table 4 (TICs) Did lab report TICs? YES NO (circle one)

1,4-Dioxane

PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk – High Falls NY
Method : SW-846 8270E-SIM
Laboratory: Pace Analytical **SDG(s): 70201589 & 70201669**
Date: 12/10/2021
Reviewer: Casey Cormier
Review Level [X] CATEGORY A

1. ☐ **Case Narrative Review and Data Package Completeness** COMMENTS
   Were problems noted? YES NO (circle one)
   MS/MSD associated with sample 356023-ERT4 was received and analyzed by lab, but was not listed on COC
   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☐ **Holding time and Sample Collection**
   Were all water samples extracted within the 7 day holding time, and/or soil within 14 days?
   OK

3. ☐ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are field blanks free of contamination? YES NO NA (circle one)

4. ☐ **Laboratory Control Sample Results** (water & soil limits: Lab Limits)
   Were all results within limits? YES NO (circle one)

5. ☐ **Matrix Spike** (water & soil limits: Lab Limits; RPD water & soil: Lab Limits)
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results were within limits? YES NO NA (circle one)

6. ☐ **Surrogate Recovery** (water and soil limits: Lab Limits)
   Were all results within limits? YES NO (circle one)
   Were any recoveries < 10%? (Reject fraction compounds if recoveries are < 10%)

7. ☐ **Field Duplicates** (RPD limits = water:50, soil:50)
   Were Field Duplicates submitted/analyzed? YES NO

   Were RPDs within criteria. YES NO NA (circle one)
   Both samples ND

8. ☐ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)

9. ☐ **Electronic Data Review and Edits**: Does the EDD match the Form Is? YES NO (circle one)

10. ☐ **Table Review**
    Table 1 (Samples and Analytical Methods)
    Table 2 (Analytical Results)
    Table 3 (Qualification Actions)
    Were all tables produced and reviewed? YES NO (circle one)

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
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QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19
Pace Project No.: 70201589

METHOD BLANK: 1226088 Matrix: Water

Associated Lab Samples: 70201589001, 70201589002, 70201589003, 70201589004, 70201589005, 70201589006, 70201589007, 70201589008, 70201589009, 70201589010, 70201589011, 70201589012, 70201589013, 70201589014, 70201589015, 70201589016, 70201589017, 70201589018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylcyclohexane	ug/L	<1.0	1.0	01/31/22 18:55	
Methylene Chloride	ug/L	<1.0	1.0	01/31/22 18:55	
Styrene	ug/L	<1.0	1.0	01/31/22 18:55	
Tetrachloroethene	ug/L	<1.0	1.0	01/31/22 18:55	v3
Toluene	ug/L	<1.0	1.0	01/31/22 18:55	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/31/22 18:55	v3
Trichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/31/22 18:55	
Vinyl chloride	ug/L	<1.0	1.0	01/31/22 18:55	
Xylene (Total)	ug/L	<3.0	3.0	01/31/22 18:55	
1,2-Dichloroethane-d4 (S)	%	100	81-122	01/31/22 18:55	
4-Bromofluorobenzene (S)	%	94	79-118	01/31/22 18:55	
Toluene-d8 (S)	%	96	82-122	01/31/22 18:55	

LABORATORY CONTROL SAMPLE: 1226089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
1,1,1-Trichloroethane	ug/L	50	45.2	90	72-126	v3	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	70-127		
1,1,2-Trichloroethane	ug/L	50	52.3	105	81-119		
1,1,2-Trichlorotrifluoroethane	ug/L	50	63.8	128	54-133		
1,1-Dichloroethane	ug/L	50	62.4	125	72-126		
1,1-Dichloroethene	ug/L	50	64.8	130	66-133		
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	56-141		
1,2-Dibromo-3-chloropropane	ug/L	50	36.2	72	47-133	IH,v3	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	81-123		
1,2-Dichlorobenzene	ug/L	50	48.2	96	80-117		
1,2-Dichloroethane	ug/L	50	63.9	128	69-134		
1,2-Dichloropropane	ug/L	50	53.2	106	75-125		
1,3-Dichlorobenzene	ug/L	50	48.8	98	82-116		
1,4-Dichlorobenzene	ug/L	50	48.8	98	80-117		
2-Butanone (MEK)	ug/L	50	55.0	110	33-165		
2-Hexanone	ug/L	50	51.5	103	50-128		
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.8	114	62-131		
Acetone	ug/L	50	68.7	137	14-156	v1	Samples ND, no quals
Benzene	ug/L	50	52.7	105	78-117		
Bromodichloromethane	ug/L	50	53.3	107	80-123	IC	
Bromoform	ug/L	50	45.4	91	49-138	IH	
Bromomethane	ug/L	50	61.5	123	10-143		
Carbon disulfide	ug/L	50	61.9	124	66-133		
Carbon tetrachloride	ug/L	50	46.3	93	64-135	IH	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19
Pace Project No.: 70201589

LABORATORY CONTROL SAMPLE: 1226089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	49.4	99	79-117	
Chloroethane	ug/L	50	55.3	111	31-156	
Chloroform	ug/L	50	62.3	125	79-123	L1
Chloromethane	ug/L	50	49.2	98	39-116	
cis-1,2-Dichloroethene	ug/L	50	62.1	124	77-125	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	78-131	
Cyclohexane	ug/L	50	61.1	122	53-130	
Dibromochloromethane	ug/L	50	46.4	93	65-123	
Dichlorodifluoromethane	ug/L	50	63.3	127	13-149	
Ethylbenzene	ug/L	50	49.6	99	79-115	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	74-118	
Methyl acetate	ug/L	50	58.2	116	10-214	
Methyl-tert-butyl ether	ug/L	50	49.3	99	69-118	
Methylcyclohexane	ug/L	50	49.2	98	63-124	
Methylene Chloride	ug/L	50	62.9	126	67-123	L1
Styrene	ug/L	50	51.2	102	82-121	
Tetrachloroethene	ug/L	50	42.2	84	65-120	v3
Toluene	ug/L	50	52.5	105	80-114	
trans-1,2-Dichloroethene	ug/L	50	61.3	123	74-123	
trans-1,3-Dichloropropene	ug/L	50	33.6	67	73-135	L2,v3 UJ LCSL
Trichloroethene	ug/L	50	51.7	103	79-115	
Trichlorofluoromethane	ug/L	50	65.3	131	51-136	Samples ND, no quals
Vinyl chloride	ug/L	50	54.5	109	49-118	
Xylene (Total)	ug/L	150	152	101	80-118	
1,2-Dichloroethane-d4 (S)	%			98	81-122	
4-Bromofluorobenzene (S)	%			97	79-118	
Toluene-d8 (S)	%			96	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226111 1226112

Sample ND for all analytes. Any MS/MSD %Recs greater than limits of 70 - 130 do not require quals

Parameter	Units	70201589003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	45.1	46.9	90	94	72-123	4	v3
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.6	48.7	101	97	64-133	4	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	53.7	50.5	107	101	78-120	6	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	56.1	67.4	112	135	56-136	18	
1,1-Dichloroethane	ug/L	<1.0	50	50	74.0	69.2	148	138	70-124	7	M1
1,1-Dichloroethene	ug/L	<1.0	50	50	56.4	70.5	113	141	61-139	22	M1,R1
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	47.5	44.5	95	89	53-138	7	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	30.3	32.5	61	65	32-137	7	IH,v3 UJ MSL
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	47.3	47.6	95	95	78-121	1	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	48.5	44.2	97	88	75-120	9	
1,2-Dichloroethane	ug/L	<1.0	50	50	73.2	66.4	146	133	58-138	10	M1
1,2-Dichloropropane	ug/L	<1.0	50	50	56.8	53.2	114	106	74-122	7	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	49.1	45.1	98	90	78-119	8	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19
Pace Project No.: 70201589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226111 1226112

Sample ND for all analytes. Any MS/MSD %Recs greater than limits of 70 - 130 do not require quals

Parameter	Units	70201589003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dichlorobenzene	ug/L	<1.0	50	50	48.3	44.8	97	90	76-118	7	
2-Butanone (MEK)	ug/L	<5.0	50	50	61.5	57.8	123	116	33-148	6	
2-Hexanone	ug/L	<5.0	50	50	48.8	47.0	98	94	49-124	4	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	56.4	53.3	113	107	60-136	6	
Acetone	ug/L	<5.0	50	50	74.4	72.8	149	146	35-112	2	M1,v1
Benzene	ug/L	<1.0	50	50	56.7	53.4	113	107	70-130	6	
Bromodichloromethane	ug/L	<1.0	50	50	52.9	53.5	106	107	74-122	1	IC
Bromoform	ug/L	<1.0	50	50	40.1	42.2	80	84	39-139	5	IH
Bromomethane	ug/L	<1.0	50	50	37.3	44.8	75	90	10-130	18	
Carbon disulfide	ug/L	<1.0	50	50	54.2	53.6	108	107	60-129	1	
Carbon tetrachloride	ug/L	<1.0	50	50	44.5	47.1	89	94	56-143	6	IH
Chlorobenzene	ug/L	<1.0	50	50	50.4	46.7	101	93	74-122	8	
Chloroethane	ug/L	<1.0	50	50	66.8	63.0	134	126	35-146	6	
Chloroform	ug/L	<1.0	50	50	74.3	68.1	149	136	71-129	9	M0
Chloromethane	ug/L	<1.0	50	50	55.7	52.4	111	105	29-112	6	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	72.0	67.1	144	134	73-129	7	M1
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	46.0	46.3	92	93	67-130	1	
Cyclohexane	ug/L	<1.0	50	50	73.1	68.7	146	137	46-146	6	
Dibromochloromethane	ug/L	<1.0	50	50	41.9	43.5	84	87	55-126	4	
Dichlorodifluoromethane	ug/L	<1.0	50	50	73.4	69.4	147	139	10-123	6	M1
Ethylbenzene	ug/L	<1.0	50	50	50.5	46.9	101	94	70-126	7	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.1	49.6	106	99	68-127	7	
Methyl acetate	ug/L	<1.0	50	50	57.3	54.4	115	109	10-260	5	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	52.6	53.2	105	106	60-140	1	
Methylcyclohexane	ug/L	<1.0	50	50	55.5	55.2	111	110	66-135	1	
Methylene Chloride	ug/L	<1.0	50	50	71.6	66.1	143	132	69-117	8	M0
Styrene	ug/L	<1.0	50	50	51.5	47.6	103	95	79-123	8	
Tetrachloroethene	ug/L	<1.0	50	50	41.6	38.7	83	77	64-124	7	v3
Toluene	ug/L	<1.0	50	50	55.9	52.5	112	105	76-123	6	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	71.9	67.1	144	134	69-127	7	M1
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	31.2	32.1	62	64	61-130	3	v3 UJ MSL
Trichloroethene	ug/L	<1.0	50	50	55.8	52.1	112	104	73-125	7	
Trichlorofluoromethane	ug/L	<1.0	50	50	75.6	72.5	151	145	59-129	4	M1
Vinyl chloride	ug/L	<1.0	50	50	62.5	59.4	125	119	33-127	5	
Xylene (Total)	ug/L	<3.0	150	150	153	142	102	95	78-123	7	
1,2-Dichloroethane-d4 (S)	%						99	100	81-122		
4-Bromofluorobenzene (S)	%						97	97	79-118		
Toluene-d8 (S)	%						96	96	82-122		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226113 1226114

Parameter	Units	70201589017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	1530	50	50	2560	2780	2050	2490	72-123	8	M1,v3

Sample conc >> 4X spike conc, no quals

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19
Pace Project No.: 70201589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226113 1226114

Parameter	Units	70201589017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	52.3	56.0	105	112	64-133	7	
1,1,2-Trichloroethane	ug/L	2.2	50	50	54.2	56.2	104	108	78-120	4	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	69.3	55.5	139	111	56-136	22	M1,R1 ND, no quals
1,1-Dichloroethane	ug/L	46.8	50	50	119	124	144	153	70-124	4	M1 J+ MSH
1,1-Dichloroethene	ug/L	173	50	50	299	241	251	135	61-139	22	M1,R1 ND, no quals
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	45.8	49.3	92	99	53-138	7	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	47.6	52.8	95	106	32-137	10	IH,v3
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	57.5	60.7	115	121	78-121	5	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	45.7	49.3	91	99	75-120	7	
1,2-Dichloroethane	ug/L	3.2	50	50	71.1	73.1	136	140	58-138	3	M1 J+ MSH
1,2-Dichloropropane	ug/L	<1.0	50	50	54.2	56.8	108	114	74-122	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	46.1	50.0	92	100	78-119	8	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	45.8	49.3	92	99	76-118	7	
2-Butanone (MEK)	ug/L	<5.0	50	50	62.4	62.8	125	126	33-148	1	
2-Hexanone	ug/L	<5.0	50	50	49.9	49.7	100	99	49-124	0	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	56.4	56.8	113	114	60-136	1	
Acetone	ug/L	<5.0	50	50	76.4	76.9	153	154	35-112	1	M1,v1 ND, no quals
Benzene	ug/L	<1.0	50	50	52.4	55.1	105	110	70-130	5	
Bromodichloromethane	ug/L	<1.0	50	50	67.0	74.5	134	149	74-122	11	IC,M1 ND, no quals
Bromoform	ug/L	<1.0	50	50	56.1	64.0	112	128	39-139	13	IH
Bromomethane	ug/L	<1.0	50	50	52.5	53.7	105	107	10-130	2	
Carbon disulfide	ug/L	<1.0	50	50	52.9	55.0	106	110	60-129	4	
Carbon tetrachloride	ug/L	<1.0	50	50	73.8	80.1	148	160	56-143	8	IH,M1 ND, no quals
Chlorobenzene	ug/L	<1.0	50	50	47.1	49.4	94	99	74-122	5	
Chloroethane	ug/L	1.1	50	50	63.8	65.4	125	129	35-146	3	
Chloroform	ug/L	1.3	50	50	70.0	73.4	137	144	71-129	5	M0 J+ MSH
Chloromethane	ug/L	<1.0	50	50	54.0	57.0	108	114	29-112	5	M1
cis-1,2-Dichloroethene	ug/L	4.0	50	50	72.0	74.6	136	141	73-129	4	M1 J+ MSH
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	58.4	63.9	117	128	67-130	9	
Cyclohexane	ug/L	<1.0	50	50	73.9	78.6	148	157	46-146	6	M1 ND, no quals
Dibromochloromethane	ug/L	<1.0	50	50	58.0	64.2	116	128	55-126	10	M1
Dichlorodifluoromethane	ug/L	<1.0	50	50	69.6	71.3	139	143	10-123	2	M1 ND, no quals
Ethylbenzene	ug/L	<1.0	50	50	47.3	50.4	95	101	70-126	6	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.1	54.2	100	108	68-127	8	
Methyl acetate	ug/L	<1.0	50	50	59.1	60.7	118	121	10-260	3	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	56.5	60.5	113	121	60-140	7	
Methylcyclohexane	ug/L	<1.0	50	50	53.9	59.2	108	118	66-135	9	
Methylene Chloride	ug/L	<1.0	50	50	66.4	68.1	133	136	69-117	3	M0 ND, no quals
Styrene	ug/L	<1.0	50	50	48.0	51.1	96	102	79-123	6	
Tetrachloroethene	ug/L	<1.0	50	50	38.9	41.4	78	83	64-124	6	v3
Toluene	ug/L	<1.0	50	50	52.2	55.4	104	111	76-123	6	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	68.0	70.4	136	141	69-127	4	M1 ND, no quals
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	43.3	47.9	87	96	61-130	10	v3
Trichloroethene	ug/L	120	50	50	178	185	117	130	73-125	4	M1
Trichlorofluoromethane	ug/L	<1.0	50	50	72.2	75.2	144	150	59-129	4	M1 ND, no quals
Vinyl chloride	ug/L	<1.0	50	50	60.1	62.4	120	125	33-127	4	

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REPORT OF LABORATORY ANALYSIS

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Case Narrative

Client: Pace Analytical Services, LLC
Project/Site: 70201589

Job ID: 410-70557-1

Job ID: 410-70557-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-70557-1

Receipt
The samples were received on 1/22/2022 10:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.6°C, 0.6°C, 1.2°C and 1.8°C

Receipt Exceptions
The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 356023 - ERT4 (410-70557-17[MS]) and 356023 - ERT4 (410-70557-17[MSD])

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

Chain of Custody

410-70557 Chain of Custody

PASI New York Laboratory

Workorder: 70201589 **Workorder Name:** HIGH FALLS NY 1/19 **Results Requested By:** 2/4

Report / Invoice To	Subcontract To	Requested Analy
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: lea.sherman@pacelabs.com	Eurofins Lancaster 2425 New Holland Pike, Lancaster, PA 17605	P.O. 70201589 LS1

State of Sample Origin: NY

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						1,4 Dioxane by 8270SIM	1,4 Dioxane by 8270SIM MS/MSD						
1	356023 - MW8B	1/18/2022 15:35	70201589001	Water							X							
2	356023 - MW14B	1/18/2022 16:55	70201589002	Water							X							
3	356023 - MW10B	1/19/2022 10:10	70201589003	Water								X						
4	356023 - DUP-01	1/19/2022 00:00	70201589004	Water							X							
5	356023 - MW9B	1/19/2022 09:55	70201589005	Water							X							
6	356023 - MW15B	1/19/2022 14:50	70201589006	Water							X							
7	356023 - MW16	1/19/2022 15:05	70201589007	Water							X							
8	356023 - MW5R	1/19/2022 16:03	70201589008	Water							X							
9	356023 - MW7R	1/19/2022 16:13	70201589009	Water							X							
10	356023 - ERT1	1/19/2022 16:23	70201589010	Water							X							
11	356023 - MW12B	1/20/2022 09:30	70201589011	Water							X							
12	356023 - MW6B	1/20/2022 12:05	70201589012	Water							X							
13	356023 - MW11B	1/20/2022 09:10	70201589013	Water							X							
14	356023 - MW5B	1/20/2022 11:25	70201589014	Water							X							
15	356023 - MW1B	1/20/2022 13:30	70201589015	Water							X							
16	356023 - MW4	1/20/2022 14:35	70201589016	Water							X							
17	356023 - ERT4	1/20/2022 17:05	70201589017	Water							X							
18																		
19																		
20																		
21																		

Friday, January 21, 2022 4:12:00 PM FMT-ALL-C-002rev.00 24

CATEGORY A REVIEW REPORT
MAY 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in May 2023 at Mohonk Road Industrial Plant in High Falls, New York, and analyzed by Pace Analytical Services located in East Longmeadow, Massachusetts. Samples were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) methods:

- Volatile Organic Compounds (VOCs) by Method 8260D
- 1,4-Dioxane by Method 8270E-Selected Ion Monitoring (SIM)

Results were reported in the following sample delivery groups (SDGs):
- 23E2893
- 23E2901

Sample event information included in this chemistry review is presented in the following Tables:
- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:
- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.
- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = Target analyte is not detected at or above the reporting limit
UJ = Target analyte is not detected, value is estimated
J = Result is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review sample data are interpreted to meet the data quality objectives.

VOCs by Method 8260D

- The MS/MSD associated with sample 356023-ERT4 had percent recoveries that were less than project limits for a subset of VOCs. Affected VOC results in sample 356023-ERT4 were qualified estimated (J/UJ). Qualified results are listed in Table 3 with reason code MSL.

- The MS/MSD associated with sample 356023-MW6B had percent recoveries that were less than project limits for a subset of VOCs. Affected target analytes were not detected in the sample or associated field duplicate 356023-DUP-02, and reporting limits were qualified estimated (UJ). Qualified results are listed in Table 3 with reason code MSL.

- The MS/MSD associated with sample 356023-MW10B had percent recoveries that were less than project limits for a subset of VOCs. Affected target analytes were not detected in the sample or associated field duplicate 356023-DUP-01, and reporting limits were qualified estimated (UJ). Qualified results are listed in Table 3 with reason code MSL.

- Reporting limits are elevated for a subset of samples due to dilutions required for target compound concentrations.

1,4-Dioxane by Method 8270E-SIM

- The MS/MSD associated with sample 356023-MW6B had a relative percent difference between MS and MSD recoveries that was greater than the project limit. Results for 1,4-dioxane in sample 356023-MW6B and associated field duplicate 356023-DUP-02 were qualified estimated (J). Qualified results are included in Table 3 with reason code MSRPD.

- Results for 1,4-dioxane in sample 356023-MW6B and field duplicate 356023-DUP-02 were qualified estimated (J) based on a relative percent difference (71) that was greater than the project limit. Qualified results are included in Table 3 with reason code FD.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

USEPA, 2010. "Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D"; HW-22, Revision 5; USEPA Region II Hazardous Waste Support Branch; December 2010.

Data Validator: Julie Ricardi

Julie Ricardi

Date: November 8, 2023

Reviewed by: Chris Ricardi, NRCC-EAC

Chris Ricardi

November 12, 2023

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANLYTICAL METHODS
CATEGORY A REVIEW REPORT
MAY 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

					Lab Id	PACE	PACE
					Method Class	VOCs	SVOCs
					Analysis Method	SW8260	SW8270
					Fraction	N	N
Lab SDG	**Media**	**Location**	**Field Sample ID**	**Sample Date**	**Qc Code**	Parameters	Parameters
23E2893	GW	ERT-1	356023-ERT1	5/17/2023	FS	51	1
23E2893	GW	ERT-4	356023-ERT4	5/18/2023	FS	51	1
23E2893	GW	MW-10B	356023-DUP-01	5/16/2023	FD	51	1
23E2893	GW	MW-10B	356023-MW10B	5/16/2023	FS	51	1
23E2893	GW	MW-11B	356023-MW11B	5/18/2023	FS	51	1
23E2893	GW	MW-11C	356023-MW11C	5/18/2023	FS	51	1
23E2893	GW	MW-12B	356023-MW12B	5/18/2023	FS	51	1
23E2893	GW	MW-14B	356023-MW14B	5/16/2023	FS	51	1
23E2893	GW	MW-15B	356023-MW15B	5/17/2023	FS	51	1
23E2893	GW	MW-16	356023-MW16	5/17/2023	FS	51	1
23E2893	GW	MW-17-1	356023-MW17-1	5/16/2023	FS	51	1
23E2893	GW	MW-1B	356023-MW1B	5/16/2023	FS	51	1
23E2893	GW	MW-4	356023-MW4	5/18/2023	FS	51	1
23E2893	GW	MW-5B	356023-MW5B	5/16/2023	FS	51	1
23E2893	GW	MW-5R	356023-MW5R	5/17/2023	FS	51	1
23E2893	GW	MW-6B	356023-DUP-02	5/18/2023	FD	51	1
23E2893	GW	MW-6B	356023-MW6B	5/18/2023	FS	51	1
23E2893	GW	MW-7R	356023-MW7R	5/17/2023	FS	51	1
23E2893	GW	MW-8B	356023-MW8B	5/16/2023	FS	51	1
23E2893	GW	MW-9B	356023-MW9B	5/17/2023	FS	51	1
23E2901	GW	MW-17-2	356023-MW17-2	5/16/2023	FS	51	1
23E2901	GW	MW-17-3	356023-MW17-3	5/16/2023	FS	51	1
23E2901	GW	MW-21-1	356023-MW21-1	5/17/2023	FS	51	1
23E2901	GW	MW-21-2	356023-MW21-2	5/17/2023	FS	51	1
23E2901	GW	MW-21-4	356023-MW21-4	5/17/2023	FS	51	1
23E2901	GW	MW-21-5	356023-MW21-5	5/17/2023	FS	51	1
23E2901	GW	MW-21-6	356023-MW21-6	5/17/2023	FS	51	1
23E2901	BW	QC	Trip Blank	5/16/2023	TB	51	

Created by: KLD 7/25/2023
Checked by: JAR 11/7/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
MAY 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab Sample Delivery Group	23E2893		23E2893		23E2893		23E2893		23E2893		23E2893		23E2893		23E2893		23E2893		23E2893	
		Location	ERT-1		ERT-4		MW-10B		MW-10B		MW-11B		MW-11C		MW-12B		MW-14B		MW-15B		MW-16		MW-17-1	
		Sample Date	5/17/2023		5/18/2023		5/16/2023		5/16/2023		5/18/2023		5/18/2023		5/18/2023		5/16/2023		5/17/2023		5/17/2023		5/16/2023	
		Sample ID	356023-ERT1		356023-ERT4		356023-DUP-01		356023-MW10B		356023-MW11B		356023-MW11C		356023-MW12B		356023-MW14B		356023-MW15B		356023-MW16		356023-MW17-1	
		Qc Code	FS		FS		FD		FS		FS		FS		FS		FS		FS		FS		FS	
Method Class	**Fraction**	**Parameter**	**Units**	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
SVOCs	N	1,4-Dioxane	UG/L	5		3.5		0.2	U	0.2	U	2.2		1.2		1.5		3.7		4.9		0.29		5.8	
VOCs	N	1,1,1-Trichloroethane	UG/L	35		1000		1	U	1	U	0.58	J	1.4		3.7		1	U	9.8		0.4	J	6.1	
VOCs	N	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	10	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,1,2-Trichloroethane	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,1-Dichloroethane	UG/L	5.2		29		1	U	1	U	1.5		0.64	J	1.7		1.2		5.8		1	U	5	
VOCs	N	1,1-Dichloroethene	UG/L	10		82		1	U	1	U	2.5		2.1		3.5		1.1		9.8		0.47	J	11	
VOCs	N	1,2,3-Trichlorobenzene	UG/L	5	U	100	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,2,4-Trichlorobenzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dibromo-3-chloropropane	UG/L	5	U	100	UJ	5	UJ	5	UJ	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,2-Dibromoethane	UG/L	0.5	U	10	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	1,2-Dichlorobenzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dichloroethane	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dichloropropane	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,3-Dichlorobenzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,4-Dichlorobenzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,4-Dioxane	UG/L	50	U	1000	UJ	50	UJ	50	UJ	50	U	50	U	50	U	50	U	50	U	50	U	50	U
VOCs	N	2-Butanone	UG/L	20	U	60	J	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
VOCs	N	2-Hexanone	UG/L	10	U	200	UJ	10	UJ	10	UJ	10	U	10	U	10	U	10	U	10	U	10	U	10	U
VOCs	N	4-Methyl-2-pentanone	UG/L	10	U	200	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
VOCs	N	Acetic acid, methyl ester	UG/L	1	U	20	UJ	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Acetone	UG/L	50	U	45	J	50	U	50	U	50	U	50	U	50	U	50	U	50	U	2.1	J	50	U
VOCs	N	Benzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromochloromethane	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromodichloromethane	UG/L	0.5	U	10	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Bromoform	UG/L	1	U	20	UJ	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromomethane	UG/L	2	U	40	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Carbon disulfide	UG/L	5	U	100	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Carbon tetrachloride	UG/L	5	U	100	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Chlorobenzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Chloroethane	UG/L	2	U	40	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Chloroform	UG/L	2	U	40	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Chloromethane	UG/L	2	U	40	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	cis-1,2-Dichloroethene	UG/L	0.24	J	6.8	J	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	cis-1,3-Dichloropropene	UG/L	0.5	U	10	U	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Cyclohexane	UG/L	5	U	100	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Dibromochloromethane	UG/L	0.5	U	10	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Dichlorodifluoromethane	UG/L	2	U	40	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Ethylbenzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Isopropylbenzene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methyl cyclohexane	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methyl Tertbutyl Ether	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methylene chloride	UG/L	5	U	100	U	5	U	5	U	5	U	5	U	5	U	5	U	0.2	J	5	U	5	U
VOCs	N	Styrene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Tetrachloroethene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Toluene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	trans-1,2-Dichloroethene	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	trans-1,3-Dichloropropene	UG/L	0.5	U	10	UJ	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Trichloroethene	UG/L	3.5		67		1	U	1	U	0.52	J	0.61	J	1.2		1	U	1.2		1	U	2.5	
VOCs	N	Trichlorofluoromethane	UG/L	2	U	40	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Vinyl chloride	UG/L	2	U	40	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Xylenes, Total	UG/L	1	U	20	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U

Created by: KMS 11/9/2023
Checked by: JAR 11/12/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
MAY 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab Sample Delivery Group	23E2893		23E2893		23E2893		23E2893		23E2893		23E2893		23E2893		23E2893		23E2901		23E2901	
		Location	MW-1B		MW-4		MW-5B		MW-5R		MW-6B		MW-6B		MW-7R		MW-8B		MW-9B		MW-17-2		MW-17-3	
		Sample Date	5/16/2023		5/18/2023		5/16/2023		5/17/2023		5/18/2023		5/18/2023		5/17/2023		5/16/2023		5/17/2023		5/16/2023		5/16/2023	
		Sample ID	356023-MW1B		356023-MW4		356023-MW5B		356023-MW5R		356023-DUP-02		356023-MW6B		356023-MW7R		356023-MW8B		356023-MW9B		356023-MW17-2		356023-MW17-3	
		Qc Code	FS		FS		FS		FS		FD		FS		FS		FS		FS		FS		FS	
Method Class	**Fraction**	**Parameter**	**Units**	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
SVOCs	N	1,4-Dioxane	UG/L	0.2	U	3		5.1		2.4		0.99	J	0.47	J	1.9		2.2		10		8.8		9.1	
VOCs	N	1,1,1-Trichloroethane	UG/L	1	U	400		490		28		4.3		4.4		55		1	U	0.22	J	5.6		1.4	
VOCs	N	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,1,2-Trichloroethane	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,1-Dichloroethane	UG/L	1	U	19		9.8	J	2.1		0.16	J	1	U	32		1	U	0.74	J	7.3		8.2	
VOCs	N	1,1-Dichloroethene	UG/L	1	U	58		61		7.3		0.94	J	0.97	J	7.1		1	U	1	U	12		12	
VOCs	N	1,2,3-Trichlorobenzene	UG/L	5	U	25	U	50	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,2,4-Trichlorobenzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dibromo-3-chloropropane	UG/L	5	U	25	U	50	U	5	U	5	UJ	5	UJ	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,2-Dibromoethane	UG/L	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	1,2-Dichlorobenzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dichloroethane	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dichloropropane	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,3-Dichlorobenzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,4-Dichlorobenzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,4-Dioxane	UG/L	50	U	250	U	500	U	50	U	50	UJ	50	UJ	50	U	50	U	50	U	50	U	50	U
VOCs	N	2-Butanone	UG/L	20	U	10	J	200	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
VOCs	N	2-Hexanone	UG/L	10	U	50	U	100	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
VOCs	N	4-Methyl-2-pentanone	UG/L	10	U	50	U	100	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
VOCs	N	Acetic acid, methyl ester	UG/L	1	U	5	U	10	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U
VOCs	N	Acetone	UG/L	2.4	J	11	J	500	U	50	U	2.5	J	2.2	J	50	U	50	U	50	U	50	U	50	U
VOCs	N	Benzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromochloromethane	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromodichloromethane	UG/L	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Bromoform	UG/L	1	U	5	U	10	U	1	U	1	UJ	1	UJ	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromomethane	UG/L	2	U	10	U	20	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Carbon disulfide	UG/L	5	U	25	U	50	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Carbon tetrachloride	UG/L	5	U	25	U	50	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Chlorobenzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Chloroethane	UG/L	2	U	10	U	20	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Chloroform	UG/L	2	U	10	U	20	U	2	U	2	U	2	U	0.16	J	2	U	2	U	2	U	2	U
VOCs	N	Chloromethane	UG/L	2	U	10	U	20	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	cis-1,2-Dichloroethene	UG/L	1	U	12		10	U	1	U	1	U	1	U	0.97	J	1	U	1	U	1	U	1.6	
VOCs	N	cis-1,3-Dichloropropene	UG/L	0.5	U	2.5	U	5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Cyclohexane	UG/L	5	U	25	U	50	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Dibromochloromethane	UG/L	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Dichlorodifluoromethane	UG/L	2	U	10	U	20	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Ethylbenzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Isopropylbenzene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methyl cyclohexane	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methyl Tertbutyl Ether	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methylene chloride	UG/L	5	U	25	U	50	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Styrene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Tetrachloroethene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Toluene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	0.23	J	1	U	1	U	1	U
VOCs	N	trans-1,2-Dichloroethene	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	trans-1,3-Dichloropropene	UG/L	0.5	U	2.5	U	5	U	0.5	U	0.5	UJ	0.5	UJ	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Trichloroethene	UG/L	1	U	240		32		2.5		1	U	1	U	0.87	J	1	U	1	U	2		1	U
VOCs	N	Trichlorofluoromethane	UG/L	2	U	10	U	20	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Vinyl chloride	UG/L	2	U	10	U	20	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Xylenes, Total	UG/L	1	U	5	U	10	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U

Created by: KMS 11/9/2023
Checked by: JAR 11/12/2023

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
MAY 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab Sample Delivery Group	23E2901		23E2901		23E2901		23E2901		23E2901		23E2901	
		Location	MW-21-1		MW-21-2		MW-21-4		MW-21-5		MW-21-6		QC	
		Sample Date	5/16/2023		5/16/2023		5/16/2023		5/16/2023		5/16/2023		5/16/2023	
		Sample ID	356023-MW21-1		356023-MW21-2		356023-MW21-4		356023-MW21-5		356023-MW21-6		Trip Blank	
		Qc Code	FS		FS		FS		FS		FS		TB	
Method Class	**Fraction**	**Parameter**	**Units**	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
SVOCs	N	1,4-Dioxane	UG/L	1.1		0.68		1.8		2.1		2.1			
VOCs	N	1,1,1-Trichloroethane	UG/L	1.7		1	U	1	U	1.1		1		1	U
VOCs	N	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,1,2-Trichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,1-Dichloroethane	UG/L	1	U	1	U	1.3		1.4		1.6		1	U
VOCs	N	1,1-Dichloroethene	UG/L	2.6		1.5		3		3.2		3.2		1	U
VOCs	N	1,2,3-Trichlorobenzene	UG/L	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,2,4-Trichlorobenzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dibromo-3-chloropropane	UG/L	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,2-Dibromoethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	1,2-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dichloroethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,2-Dichloropropane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,3-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,4-Dichlorobenzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,4-Dioxane	UG/L	50	U	50	U	50	U	50	U	50	U	50	U
VOCs	N	2-Butanone	UG/L	20	U	20	U	20	U	20	U	20	U	20	U
VOCs	N	2-Hexanone	UG/L	10	U	10	U	10	U	10	U	10	U	10	U
VOCs	N	4-Methyl-2-pentanone	UG/L	10	U	10	U	10	U	10	U	10	U	10	U
VOCs	N	Acetic acid, methyl ester	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Acetone	UG/L	50	U	50	U	50	U	50	U	50	U	50	U
VOCs	N	Benzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromochloromethane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromodichloromethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Bromoform	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromomethane	UG/L	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Carbon disulfide	UG/L	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Carbon tetrachloride	UG/L	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Chlorobenzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Chloroethane	UG/L	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Chloroform	UG/L	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Chloromethane	UG/L	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	cis-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	cis-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Cyclohexane	UG/L	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Dibromochloromethane	UG/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Dichlorodifluoromethane	UG/L	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Ethylbenzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Isopropylbenzene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methyl cyclohexane	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methyl Tertbutyl Ether	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Methylene chloride	UG/L	5	U	5	U	5	U	5	U	5	U	5	U
VOCs	N	Styrene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Tetrachloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	Toluene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	trans-1,2-Dichloroethene	UG/L	1	U	1	U	1	U	1	U	1	U	1	U
VOCs	N	trans-1,3-Dichloropropene	UG/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
VOCs	N	Trichloroethene	UG/L	2.3		1.5		1.7		2.1		1.9		1	U
VOCs	N	Trichlorofluoromethane	UG/L	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Vinyl chloride	UG/L	2	U	2	U	2	U	2	U	2	U	2	U
VOCs	N	Xylenes, Total	UG/L	1	U	1	U	1	U	1	U	1	U	1	U

Created by: KMS 11/9/2023
Checked by: JAR 11/12/2023

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW REPORT
MAY 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

Lab SDG	Location	Field Sample ID	Lab Sample ID	Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
23E2893	ERT-4	356023-ERT4	23E2893-02	SW8260	N	1,2-Dibromo-3-chloropropane	100	U	100	UJ	MSL	UG/L	PACE
23E2893	ERT-4	356023-ERT4	23E2893-02	SW8260	N	1,4-Dioxane	1000	U	1000	UJ	MSL	UG/L	PACE
23E2893	ERT-4	356023-ERT4	23E2893-02	SW8260	N	2-Hexanone	200	U	200	UJ	MSL	UG/L	PACE
23E2893	ERT-4	356023-ERT4	23E2893-02	SW8260	N	Acetic acid, methyl ester	20	U	20	UJ	MSL	UG/L	PACE
23E2893	ERT-4	356023-ERT4	23E2893-02	SW8260	N	Acetone	45	J	45	J	MSL	UG/L	PACE
23E2893	ERT-4	356023-ERT4	23E2893-02	SW8260	N	Bromoform	20	U	20	UJ	MSL	UG/L	PACE
23E2893	ERT-4	356023-ERT4	23E2893-02	SW8260	N	trans-1,3-Dichloropropene	10	U	10	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-MW6B	23E2893-07	SW8260	N	1,2-Dibromo-3-chloropropane	5	U	5	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-MW6B	23E2893-07	SW8260	N	1,4-Dioxane	50	U	50	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-MW6B	23E2893-07	SW8260	N	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-MW6B	23E2893-07	SW8260	N	Bromoform	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-MW6B	23E2893-07	SW8260	N	cis-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-MW6B	23E2893-07	SW8260	N	trans-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-MW6B	23E2893-07	SW8270	N	1,4-Dioxane	0.47		0.47	J	MSRPD, FD	UG/L	PACE
23E2893	MW-6B	356023-DUP-02	23E2893-08	SW8260	N	1,2-Dibromo-3-chloropropane	5	U	5	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-DUP-02	23E2893-08	SW8260	N	1,4-Dioxane	50	U	50	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-DUP-02	23E2893-08	SW8260	N	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-DUP-02	23E2893-08	SW8260	N	Bromoform	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-DUP-02	23E2893-08	SW8260	N	cis-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-DUP-02	23E2893-08	SW8260	N	trans-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE
23E2893	MW-6B	356023-DUP-02	23E2893-08	SW8270	N	1,4-Dioxane	0.99		0.99	J	MSRPD, FD	UG/L	PACE
23E2893	MW-10B	356023-MW10B	23E2893-12	SW8260	N	1,2-Dibromo-3-chloropropane	5	U	5	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-MW10B	23E2893-12	SW8260	N	1,4-Dioxane	50	U	50	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-MW10B	23E2893-12	SW8260	N	2-Hexanone	10	U	10	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-MW10B	23E2893-12	SW8260	N	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-MW10B	23E2893-12	SW8260	N	Bromoform	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-MW10B	23E2893-12	SW8260	N	cis-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-MW10B	23E2893-12	SW8260	N	trans-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-DUP-01	23E2893-13	SW8260	N	1,2-Dibromo-3-chloropropane	5	U	5	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-DUP-01	23E2893-13	SW8260	N	1,4-Dioxane	50	U	50	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-DUP-01	23E2893-13	SW8260	N	2-Hexanone	10	U	10	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-DUP-01	23E2893-13	SW8260	N	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-DUP-01	23E2893-13	SW8260	N	Bromoform	1	U	1	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-DUP-01	23E2893-13	SW8260	N	cis-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE
23E2893	MW-10B	356023-DUP-01	23E2893-13	SW8260	N	trans-1,3-Dichloropropene	0.5	U	0.5	UJ	MSL	UG/L	PACE

Created by: KMS 11/9/2023
Checked by: JAR 11/12/2023

CATEGORY A REVIEW REPORT
MAY 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk Road
Method : SW-846 8260C (or specify)
Laboratory: Pace **SDG(s):** 23E2893, 23E2901
Date: 11/7/2023
Reviewer: Julie Ricardi
Review Level [X] CATEGORY A

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? See below and attached for Cat A Review QC items noted in narrative.

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all samples properly preserved and analyzed within the 14 day holding time? (7 day holding time for unpreserved samples) YES NO (circle one) (See Table 1, USEPA Region 2 SOP HW-24, Rev 4, Sep 2014)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ **Matrix Spike** – Use nominal limits for recovery (water and soil 70-130%) and relative percent difference (RPD) (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
   Were MS/MSDs submitted/analyzed? YES NO
   356023-ERT4 MS/MSD / 356023-MW6B MS/MSD / 356023-MW10B MS/MSD --See attached for eval and quals
   Were all results within above QC limits? YES NO NA (circle one)
   Were any recoveries <20%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

5. ☑ **Laboratory Control Sample Results** – Use nominal limits for recovery (water and soil 70-130%) and RPD (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)

6. ☑ **Surrogate Recovery** – Use nominal limits for recovery (water 80-120%, soil 70-130%) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)
   Were any results <10%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

7. ☑ **Field Duplicates** - Region 2 limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO
   DUP-01 / MW10B – Okay DUP-02 / MW6B -- Okay
   Were all results within Region 2 Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
   Subset ND at 5X: 356023-MW4
   Subset ND at 10X: 356023-MW5B
   Subset ND at 20X: 356023-ERT4

9. ☑ **Electronic Data Review and Edits** Type text here.
Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**
Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341325 - SW-846 5030B											
LCS Dup (B341325-BSD1)				Prepared: 05/25/23 Analyzed: 05/26/23							
1,1,2,2-Tetrachloroethane	9.59	0.50	µg/L	10.0		95.9		70-130	4.04	25	
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102		70-130	1.07	25	
Toluene	10.7	1.0	µg/L	10.0		107		70-130	0.187	25	
1,2,3-Trichlorobenzene	10.7	5.0	µg/L	10.0		107		70-130	2.66	25	
1,2,4-Trichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130	2.93	25	
1,1,1-Trichloroethane	9.76	1.0	µg/L	10.0		97.6		70-130	0.411	25	
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130	0.577	25	
Trichloroethylene	10.4	1.0	µg/L	10.0		104		70-130	0.482	25	
Trichlorofluoromethane (Freon 11)	9.52	2.0	µg/L	10.0		95.2		70-130	2.49	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.73	1.0	µg/L	10.0		97.3		70-130	3.34	25	
Vinyl Chloride	11.1	2.0	µg/L	10.0		111		40-160	0.724	25	†
m+p Xylene	20.8	2.0	µg/L	20.0		104		70-130	0.0480	25	
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130	1.95	25	
Xylenes (total)	31.2	1.0	µg/L	30.0		104		0-200	0.675		
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		97.0		70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101		70-130			
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.4		70-130			

356023-ERT4 MS/MSD

Matrix Spike (B341325-MS1)	**Source: 23E2893-02**			Prepared: 05/25/23 Analyzed: 05/27/23							
Acetone	1400	1000	µg/L	2000	44.6	**67.8**	*	70-130	UJ MSL Sample; detected <MD		MS-24
Benzene	179	20	µg/L	200	ND	89.6		70-130			
Bromochloromethane	189	20	µg/L	200	ND	94.6		70-130			
Bromodichloromethane	161	10	µg/L	200	ND	80.5		70-130			
Bromoform	121	20	µg/L	200	ND	**60.7**	*	70-130	UJ MSL Sample		MS-07A, V-05
Bromomethane	163	40	µg/L	200	ND	81.5		70-130			
2-Butanone (MEK)	1650	400	µg/L	2000	60.0	79.3		70-130			
Carbon Disulfide	1570	100	µg/L	2000	ND	78.7		70-130			
Carbon Tetrachloride	162	100	µg/L	200	ND	81.0		70-130			
Chlorobenzene	176	20	µg/L	200	ND	88.1		70-130			
Chlorodibromomethane	145	10	µg/L	200	ND	72.5		70-130			
Chloroethane	166	40	µg/L	200	ND	82.8		70-130			
Chloroform	169	40	µg/L	200	ND	84.6		70-130			
Chloromethane	194	40	µg/L	200	ND	96.9		70-130			
Cyclohexane	184	100	µg/L	200	ND	91.8		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	117	100	µg/L	200	ND	**58.7**	*	70-130	UJ MSL Sample		MS-07A
1,2-Dibromoethane (EDB)	166	10	µg/L	200	ND	83.0		70-130			
1,2-Dichlorobenzene	166	20	µg/L	200	ND	82.8		70-130			
1,3-Dichlorobenzene	167	20	µg/L	200	ND	83.3		70-130			
1,4-Dichlorobenzene	161	20	µg/L	200	ND	80.3		70-130			
Dichlorodifluoromethane (Freon 12)	194	40	µg/L	200	ND	96.9		70-130			
1,1-Dichloroethane	198	20	µg/L	200	28.8	84.4		70-130			
1,2-Dichloroethane	163	20	µg/L	200	ND	81.7		70-130			
1,1-Dichloroethylene	240	20	µg/L	200	82.0	79.2		70-130			
cis-1,2-Dichloroethylene	162	20	µg/L	200	6.80	77.5		70-130			
trans-1,2-Dichloroethylene	158	20	µg/L	200	ND	79.0		70-130			
1,2-Dichloropropane	179	20	µg/L	200	ND	89.3		70-130			
cis-1,3-Dichloropropene	148	10	µg/L	200	ND	73.8		70-130			
trans-1,3-Dichloropropene	137	10	µg/L	200	ND	**68.5**	*	70-130	UJ MSL Sample		MS-24
1,4-Dioxane	1280	1000	µg/L	2000	ND	**64.0**	*	70-130	UJ MSL Sample		MS-24
Ethylbenzene	172	20	µg/L	200	ND	85.8		70-130			
2-Hexanone (MBK)	1380	200	µg/L	2000	ND	**69.0**	*	70-130	UJ MSL Sample		MS-24
Isopropylbenzene (Cumene)	165	20	µg/L	200	ND	82.4		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341325 - SW-846 5030B											
		356023-ERT4 MS/MSD									
Matrix Spike (B341325-MS1)		**Source: 23E2893-02**		Prepared: 05/25/23 Analyzed: 05/27/23							
Methyl Acetate	123	20	µg/L	200	ND	**61.3**	*	70-130			MS-07A, V-05
									UJ MSL Sample		
Methyl tert-Butyl Ether (MTBE)	146	20	µg/L	200	ND	73.1		70-130			
Methyl Cyclohexane	176	20	µg/L	200	ND	88.2		70-130			
Methylene Chloride	165	100	µg/L	200	ND	82.3		70-130			
4-Methyl-2-pentanone (MIBK)	1420	200	µg/L	2000	ND	70.9		70-130			
Styrene	168	20	µg/L	200	ND	84.0		70-130			
1,1,2,2-Tetrachloroethane	153	10	µg/L	200	ND	76.3		70-130			
Tetrachloroethylene	169	20	µg/L	200	ND	84.5		70-130			
Toluene	177	20	µg/L	200	ND	88.3		70-130			
1,2,3-Trichlorobenzene	145	100	µg/L	200	ND	72.6		70-130			
1,2,4-Trichlorobenzene	142	20	µg/L	200	ND	71.1		70-130			
1,1,1-Trichloroethane	1190	20	µg/L	200	1020	82.6		70-130			
1,1,2-Trichloroethane	171	20	µg/L	200	ND	85.7		70-130			
Trichloroethylene	228	20	µg/L	200	66.8	80.4		70-130			
Trichlorofluoromethane (Freon 11)	167	40	µg/L	200	ND	83.7		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	168	20	µg/L	200	ND	83.9		70-130			
Vinyl Chloride	190	40	µg/L	200	ND	95.0		70-130			
m+p Xylene	342	40	µg/L	400	ND	85.6		70-130			
o-Xylene	162	20	µg/L	200	ND	80.9		70-130			
Xylenes (total)	504	20	µg/L	600	ND	84.0		0-200			
Surrogate: 1,2-Dichloroethane-d4	*23.6*		µg/L	25.0		94.6		70-130			
Surrogate: Toluene-d8	*25.8*		µg/L	25.0		103		70-130			
Surrogate: 4-Bromofluorobenzene	*24.2*		µg/L	25.0		96.6		70-130			
		356023-ERT4 MS/MSD									
Matrix Spike Dup (B341325-MSD1)		**Source: 23E2893-02**		Prepared: 05/25/23 Analyzed: 05/27/23							
Acetone	1560	1000	µg/L	2000	44.6	75.8		70-130	10.8	30	
Benzene	196	20	µg/L	200	ND	97.9		70-130	8.85	30	
Bromochloromethane	198	20	µg/L	200	ND	99.2		70-130	4.75	30	
Bromodichloromethane	168	10	µg/L	200	ND	83.9		70-130	4.14	30	
Bromoform	134	20	µg/L	200	ND	**66.8**	*	70-130	9.57	30	V-05, MS-07A
Bromomethane	177	40	µg/L	200	ND	88.4		70-130	8.12	30	UJ MSL Sample
2-Butanone (MEK)	1830	400	µg/L	2000	60.0	88.3		70-130	10.4	30	
Carbon Disulfide	1720	100	µg/L	2000	ND	85.9		70-130	8.73	30	
Carbon Tetrachloride	178	100	µg/L	200	ND	89.2		70-130	9.64	30	
Chlorobenzene	185	20	µg/L	200	ND	92.7		70-130	5.09	30	
Chlorodibromomethane	155	10	µg/L	200	ND	77.3		70-130	6.41	30	
Chloroethane	180	40	µg/L	200	ND	90.1		70-130	8.44	30	
Chloroform	183	40	µg/L	200	ND	91.3		70-130	7.62	30	
Chloromethane	202	40	µg/L	200	ND	101		70-130	3.95	30	
Cyclohexane	191	100	µg/L	200	ND	95.6		70-130	4.06	30	
1,2-Dibromo-3-chloropropane (DBCP)	135	100	µg/L	200	ND	**67.7**	*	70-130	14.2	30	MS-07A
											UJ MSL Sample
1,2-Dibromoethane (EDB)	172	10	µg/L	200	ND	85.8		70-130	3.32	30	
1,2-Dichlorobenzene	182	20	µg/L	200	ND	90.9		70-130	9.33	30	
1,3-Dichlorobenzene	186	20	µg/L	200	ND	93.2		70-130	11.2	30	
1,4-Dichlorobenzene	175	20	µg/L	200	ND	87.6		70-130	8.70	30	
Dichlorodifluoromethane (Freon 12)	213	40	µg/L	200	ND	107		70-130	9.53	30	
1,1-Dichloroethane	218	20	µg/L	200	28.8	94.4		70-130	9.63	30	
1,2-Dichloroethane	172	20	µg/L	200	ND	85.9		70-130	5.01	30	
1,1-Dichloroethylene	265	20	µg/L	200	82.0	91.7		70-130	9.89	30	
cis-1,2-Dichloroethylene	175	20	µg/L	200	6.80	84.3		70-130	8.07	30	
trans-1,2-Dichloroethylene	173	20	µg/L	200	ND	86.3		70-130	8.83	30	
1,2-Dichloropropane	190	20	µg/L	200	ND	95.1		70-130	6.29	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341325 - SW-846 5030B											
Matrix Spike Dup (B341325-MSD1)				Source: 23E2893-02							
cis-1,3-Dichloropropene	153	10	µg/L	200	ND	76.3		70-130	3.33	30	
trans-1,3-Dichloropropene	148	10	µg/L	200	ND	74.0		70-130	7.72	30	
1,4-Dioxane	1580	1000	µg/L	2000	ND	79.0		70-130	21.0	30	
Ethylbenzene	186	20	µg/L	200	ND	92.9		70-130	7.95	30	
2-Hexanone (MBK)	1520	200	µg/L	2000	ND	75.8		70-130	9.43	30	
Isopropylbenzene (Cumene)	178	20	µg/L	200	ND	89.1		70-130	7.81	30	
Methyl Acetate	132	20	µg/L	200	ND	**66.0**	*	70-130	7.38	30	V-05, MS-07A UJ MSL Sample
Methyl tert-Butyl Ether (MTBE)	159	20	µg/L	200	ND	79.5		70-130	8.39	30	
Methyl Cyclohexane	190	20	µg/L	200	ND	95.1		70-130	7.53	30	
Methylene Chloride	177	100	µg/L	200	ND	88.7		70-130	7.49	30	
4-Methyl-2-pentanone (MIBK)	1540	200	µg/L	2000	ND	77.1		70-130	8.38	30	
Styrene	180	20	µg/L	200	ND	90.1		70-130	7.01	30	
1,1,2,2-Tetrachloroethane	169	10	µg/L	200	ND	84.6		70-130	10.3	30	
Tetrachloroethylene	182	20	µg/L	200	ND	91.0		70-130	7.41	30	
Toluene	187	20	µg/L	200	ND	93.6		70-130	5.83	30	
1,2,3-Trichlorobenzene	163	100	µg/L	200	ND	81.4		70-130	11.4	30	
1,2,4-Trichlorobenzene	164	20	µg/L	200	ND	82.1		70-130	14.4	30	
1,1,1-Trichloroethane	1220	20	µg/L	200	1020	99.4		70-130	2.79	30	
1,1,2-Trichloroethane	180	20	µg/L	200	ND	90.1		70-130	5.01	30	
Trichloroethylene	235	20	µg/L	200	66.8	84.1		70-130	3.20	30	
Trichlorofluoromethane (Freon 11)	179	40	µg/L	200	ND	89.4		70-130	6.59	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	188	20	µg/L	200	ND	94.0		70-130	11.4	30	
Vinyl Chloride	211	40	µg/L	200	ND	106		70-130	10.6	30	
m+p Xylene	367	40	µg/L	400	ND	91.8		70-130	6.94	20	
o-Xylene	177	20	µg/L	200	ND	88.4		70-130	8.86	30	
Xylenes (total)	544	20	µg/L	600	ND	90.6		0-200	7.56		
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.1		70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.2		70-130			
Batch B341326 - SW-846 5030B											
Blank (B341326-BLK1)											
Acetone	ND	50	µg/L								
Benzene	ND	1.0	µg/L								
Bromochloromethane	ND	1.0	µg/L								
Bromodichloromethane	ND	0.50	µg/L								
Bromoform	ND	1.0	µg/L								
Bromomethane	ND	2.0	µg/L								
2-Butanone (MEK)	ND	20	µg/L								
Carbon Disulfide	ND	5.0	µg/L								
Carbon Tetrachloride	ND	5.0	µg/L								
Chlorobenzene	ND	1.0	µg/L								
Chlorodibromomethane	ND	0.50	µg/L								
Chloroethane	ND	2.0	µg/L								
Chloroform	ND	2.0	µg/L								
Chloromethane	ND	2.0	µg/L								
Cyclohexane	ND	5.0	µg/L								
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L								
1,2-Dibromoethane (EDB)	ND	0.50	µg/L								
1,2-Dichlorobenzene	ND	1.0	µg/L								
1,3-Dichlorobenzene	ND	1.0	µg/L								

356023-ERT4 MS/MSD

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341326 - SW-846 5030B											
LCS Dup (B341326-BSD1)				Prepared: 05/25/23 Analyzed: 05/27/23							
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130	0.867	25	
Xylenes (total)	31.9	1.0	µg/L	30.0		106		0-200	1.58		
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101		70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.5		70-130			
Matrix Spike (B341326-MS1)		356023-MW6B (associated with DUP-02) **Source: 23E2893-07**		Prepared: 05/25/23 Analyzed: 05/27/23							
Acetone	76.3	50	µg/L	100	2.23	74.0		70-130			
Benzene	9.71	1.0	µg/L	10.0	ND	97.1		70-130			
Bromochloromethane	9.61	1.0	µg/L	10.0	ND	96.1		70-130			
Bromodichloromethane	8.07	0.50	µg/L	10.0	ND	80.7		70-130			
Bromoform	6.21	1.0	µg/L	10.0	ND	**62.1**	*	70-130	UJ MSL Sample and FD		MS-07A
Bromomethane	10.6	2.0	µg/L	10.0	ND	106		70-130			
2-Butanone (MEK)	83.9	20	µg/L	100	ND	83.9		70-130			
Carbon Disulfide	79.3	5.0	µg/L	100	ND	79.3		70-130			
Carbon Tetrachloride	8.45	5.0	µg/L	10.0	ND	84.5		70-130			
Chlorobenzene	8.96	1.0	µg/L	10.0	ND	89.6		70-130			
Chlorodibromomethane	7.41	0.50	µg/L	10.0	ND	74.1		70-130			
Chloroethane	8.95	2.0	µg/L	10.0	ND	89.5		70-130			
Chloroform	8.75	2.0	µg/L	10.0	ND	87.5		70-130			
Chloromethane	9.46	2.0	µg/L	10.0	ND	94.6		70-130			
Cyclohexane	9.44	5.0	µg/L	10.0	ND	94.4		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.20	5.0	µg/L	10.0	ND	**62.0**	*	70-130	UJ MSL Sample and FD		MS-07A
1,2-Dibromoethane (EDB)	8.27	0.50	µg/L	10.0	ND	82.7		70-130			
1,2-Dichlorobenzene	8.53	1.0	µg/L	10.0	ND	85.3		70-130			
1,3-Dichlorobenzene	8.27	1.0	µg/L	10.0	ND	82.7		70-130			
1,4-Dichlorobenzene	8.02	1.0	µg/L	10.0	ND	80.2		70-130			
Dichlorodifluoromethane (Freon 12)	9.89	2.0	µg/L	10.0	ND	98.9		70-130			
1,1-Dichloroethane	9.32	1.0	µg/L	10.0	ND	93.2		70-130			
1,2-Dichloroethane	8.30	1.0	µg/L	10.0	ND	83.0		70-130			
1,1-Dichloroethylene	9.69	1.0	µg/L	10.0	0.970	87.2		70-130			
cis-1,2-Dichloroethylene	8.15	1.0	µg/L	10.0	ND	81.5		70-130			
trans-1,2-Dichloroethylene	8.02	1.0	µg/L	10.0	ND	80.2		70-130			
1,2-Dichloropropane	8.92	1.0	µg/L	10.0	ND	89.2		70-130			
cis-1,3-Dichloropropene	6.82	0.50	µg/L	10.0	ND	**68.2**	*	70-130	UJ MSL Sample and FD		MS-24
trans-1,3-Dichloropropene	6.61	0.50	µg/L	10.0	ND	**66.1**	*	70-130	UJ MSL Sample and FD		MS-07A
1,4-Dioxane	61.8	50	µg/L	100	ND	**61.8**	*	70-130	UJ MSL Sample and FD		MS-07A
Ethylbenzene	8.75	1.0	µg/L	10.0	ND	87.5		70-130			
2-Hexanone (MBK)	72.7	10	µg/L	100	ND	72.7		70-130			
Isopropylbenzene (Cumene)	8.29	1.0	µg/L	10.0	ND	82.9		70-130			
Methyl Acetate	3.90	1.0	µg/L	10.0	ND	**39.0**	*	70-130	UJ MSL Sample and FD		MS-07A, V-05
Methyl tert-Butyl Ether (MTBE)	7.64	1.0	µg/L	10.0	ND	76.4		70-130			
Methyl Cyclohexane	8.57	1.0	µg/L	10.0	ND	85.7		70-130			
Methylene Chloride	8.61	5.0	µg/L	10.0	ND	86.1		70-130			
4-Methyl-2-pentanone (MIBK)	72.9	10	µg/L	100	ND	72.9		70-130			
Styrene	8.25	1.0	µg/L	10.0	ND	82.5		70-130			
1,1,2,2-Tetrachloroethane	7.93	0.50	µg/L	10.0	ND	79.3		70-130			
Tetrachloroethylene	8.49	1.0	µg/L	10.0	ND	84.9		70-130			
Toluene	8.94	1.0	µg/L	10.0	ND	89.4		70-130			
1,2,3-Trichlorobenzene	7.37	5.0	µg/L	10.0	ND	73.7		70-130			
1,2,4-Trichlorobenzene	7.55	1.0	µg/L	10.0	ND	75.5		70-130			
1,1,1-Trichloroethane	12.9	1.0	µg/L	10.0	4.35	85.7		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341326 - SW-846 5030B											
				356023-MW6B (associated with DUP-02)							
Matrix Spike (B341326-MS1)			**Source: 23E2893-07**	Prepared: 05/25/23 Analyzed: 05/27/23							
1,1,2-Trichloroethane	8.69	1.0	µg/L	10.0	ND	86.9		70-130			
Trichloroethylene	8.50	1.0	µg/L	10.0	ND	85.0		70-130			
Trichlorofluoromethane (Freon 11)	8.68	2.0	µg/L	10.0	ND	86.8		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.60	1.0	µg/L	10.0	ND	86.0		70-130			
Vinyl Chloride	10.1	2.0	µg/L	10.0	ND	101		70-130			
m+p Xylene	17.1	2.0	µg/L	20.0	ND	85.6		70-130			
o-Xylene	8.44	1.0	µg/L	10.0	ND	84.4		70-130			
Xylenes (total)	25.6	1.0	µg/L	30.0	ND	85.2		0-200			
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.9		70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.7		70-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.7		70-130			
				356023-MW10B (associated with DUP-01)							
Matrix Spike (B341326-MS2)			**Source: 23E2893-12**	Prepared: 05/25/23 Analyzed: 05/27/23							
Acetone	74.3	50	µg/L	100	ND	74.3		70-130			
Benzene	9.69	1.0	µg/L	10.0	ND	96.9		70-130			
Bromochloromethane	9.78	1.0	µg/L	10.0	ND	97.8		70-130			
Bromodichloromethane	8.51	0.50	µg/L	10.0	ND	85.1		70-130			
Bromoform	6.24	1.0	µg/L	10.0	ND	**62.4**	*	70-130	UJ MSL Sample and FD		MS-07A
Bromomethane	10.3	2.0	µg/L	10.0	ND	103		70-130			
2-Butanone (MEK)	84.4	20	µg/L	100	ND	84.4		70-130			
Carbon Disulfide	81.5	5.0	µg/L	100	ND	81.5		70-130			
Carbon Tetrachloride	8.68	5.0	µg/L	10.0	ND	86.8		70-130			
Chlorobenzene	8.95	1.0	µg/L	10.0	ND	89.5		70-130			
Chlorodibromomethane	7.83	0.50	µg/L	10.0	ND	78.3		70-130			
Chloroethane	9.21	2.0	µg/L	10.0	ND	92.1		70-130			
Chloroform	9.08	2.0	µg/L	10.0	ND	90.8		70-130			
Chloromethane	9.63	2.0	µg/L	10.0	ND	96.3		70-130			
Cyclohexane	9.62	5.0	µg/L	10.0	ND	96.2		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	6.80	5.0	µg/L	10.0	ND	**68.0**	*	70-130	UJ MSL Sample and FD		MS-07A
1,2-Dibromoethane (EDB)	8.53	0.50	µg/L	10.0	ND	85.3		70-130			
1,2-Dichlorobenzene	8.98	1.0	µg/L	10.0	ND	89.8		70-130			
1,3-Dichlorobenzene	8.73	1.0	µg/L	10.0	ND	87.3		70-130			
1,4-Dichlorobenzene	8.22	1.0	µg/L	10.0	ND	82.2		70-130			
Dichlorodifluoromethane (Freon 12)	10.2	2.0	µg/L	10.0	ND	102		70-130			
1,1-Dichloroethane	9.27	1.0	µg/L	10.0	ND	92.7		70-130			
1,2-Dichloroethane	8.52	1.0	µg/L	10.0	ND	85.2		70-130			
1,1-Dichloroethylene	8.89	1.0	µg/L	10.0	ND	88.9		70-130			
cis-1,2-Dichloroethylene	8.33	1.0	µg/L	10.0	ND	83.3		70-130			
trans-1,2-Dichloroethylene	8.27	1.0	µg/L	10.0	ND	82.7		70-130			
1,2-Dichloropropane	9.32	1.0	µg/L	10.0	ND	93.2		70-130			
cis-1,3-Dichloropropene	7.17	0.50	µg/L	10.0	ND	71.7		70-130			
trans-1,3-Dichloropropene	6.68	0.50	µg/L	10.0	ND	**66.8**	*	70-130	UJ MSL Sample and FD		MS-07A
1,4-Dioxane	71.4	50	µg/L	100	ND	71.4		70-130			
Ethylbenzene	9.02	1.0	µg/L	10.0	ND	90.2		70-130			
2-Hexanone (MBK)	69.4	10	µg/L	100	ND	**69.4**	*	70-130	UJ MSL Sample and FD		MS-07A
Isopropylbenzene (Cumene)	8.62	1.0	µg/L	10.0	ND	86.2		70-130			
Methyl Acetate	3.82	1.0	µg/L	10.0	ND	**38.2**	*	70-130	UJ MSL Sample and FD		MS-07A, V-05
Methyl tert-Butyl Ether (MTBE)	7.75	1.0	µg/L	10.0	ND	77.5		70-130			
Methyl Cyclohexane	8.99	1.0	µg/L	10.0	ND	89.9		70-130			
Methylene Chloride	8.51	5.0	µg/L	10.0	ND	85.1		70-130			
4-Methyl-2-pentanone (MIBK)	74.0	10	µg/L	100	ND	74.0		70-130			
Styrene	8.64	1.0	µg/L	10.0	ND	86.4		70-130			

jar 11/12/2023

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341326 - SW-846 5030B											
356023-MW10B (associated with DUP-01)											
Matrix Spike (B341326-MS2)	**Source: 23E2893-12**			Prepared: 05/25/23 Analyzed: 05/27/23							
1,1,2,2-Tetrachloroethane	8.11	0.50	µg/L	10.0	ND	81.1		70-130			
Tetrachloroethylene	8.61	1.0	µg/L	10.0	ND	86.1		70-130			
Toluene	9.24	1.0	µg/L	10.0	ND	92.4		70-130			
1,2,3-Trichlorobenzene	8.13	5.0	µg/L	10.0	ND	81.3		70-130			
1,2,4-Trichlorobenzene	7.87	1.0	µg/L	10.0	ND	78.7		70-130			
1,1,1-Trichloroethane	8.92	1.0	µg/L	10.0	ND	89.2		70-130			
1,1,2-Trichloroethane	8.86	1.0	µg/L	10.0	ND	88.6		70-130			
Trichloroethylene	8.68	1.0	µg/L	10.0	ND	86.8		70-130			
Trichlorofluoromethane (Freon 11)	8.94	2.0	µg/L	10.0	ND	89.4		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.87	1.0	µg/L	10.0	ND	88.7		70-130			
Vinyl Chloride	10.4	2.0	µg/L	10.0	ND	104		70-130			
m+p Xylene	17.8	2.0	µg/L	20.0	ND	89.0		70-130			
o-Xylene	8.60	1.0	µg/L	10.0	ND	86.0		70-130			
Xylenes (total)	26.4	1.0	µg/L	30.0	ND	88.0		0-200			
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.8		70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*23.7*		µg/L	25.0		94.7		70-130			
356023-MW6B (associated with DUP-02)											
Matrix Spike Dup (B341326-MSD1)	**Source: 23E2893-07**			Prepared: 05/25/23 Analyzed: 05/27/23							
Acetone	73.0	50	µg/L	100	2.23	70.8		70-130	4.31	30	
Benzene	9.58	1.0	µg/L	10.0	ND	95.8		70-130	1.35	30	
Bromochloromethane	9.74	1.0	µg/L	10.0	ND	97.4		70-130	1.34	30	
Bromodichloromethane	8.54	0.50	µg/L	10.0	ND	85.4		70-130	5.66	30	
Bromoform	6.16	1.0	µg/L	10.0	ND	**61.6**	*	70-130	0.808	30	MS-07A UJ MSL Sample and FD
Bromomethane	10.4	2.0	µg/L	10.0	ND	104		70-130	1.14	30	
2-Butanone (MEK)	81.8	20	µg/L	100	ND	81.8		70-130	2.47	30	
Carbon Disulfide	80.2	5.0	µg/L	100	ND	80.2		70-130	1.07	30	
Carbon Tetrachloride	8.40	5.0	µg/L	10.0	ND	84.0		70-130	0.593	30	
Chlorobenzene	9.04	1.0	µg/L	10.0	ND	90.4		70-130	0.889	30	
Chlorodibromomethane	7.57	0.50	µg/L	10.0	ND	75.7		70-130	2.14	30	
Chloroethane	9.02	2.0	µg/L	10.0	ND	90.2		70-130	0.779	30	
Chloroform	9.07	2.0	µg/L	10.0	ND	90.7		70-130	3.59	30	
Chloromethane	9.89	2.0	µg/L	10.0	ND	98.9		70-130	4.44	30	
Cyclohexane	9.21	5.0	µg/L	10.0	ND	92.1		70-130	2.47	30	
1,2-Dibromo-3-chloropropane (DBCP)	6.61	5.0	µg/L	10.0	ND	**66.1**	*	70-130	6.40	30	MS-07A UJ MSL Sample and FD
1,2-Dibromoethane (EDB)	8.44	0.50	µg/L	10.0	ND	84.4		70-130	2.03	30	
1,2-Dichlorobenzene	9.05	1.0	µg/L	10.0	ND	90.5		70-130	5.92	30	
1,3-Dichlorobenzene	8.81	1.0	µg/L	10.0	ND	88.1		70-130	6.32	30	
1,4-Dichlorobenzene	8.40	1.0	µg/L	10.0	ND	84.0		70-130	4.63	30	
Dichlorodifluoromethane (Freon 12)	9.81	2.0	µg/L	10.0	ND	98.1		70-130	0.812	30	
1,1-Dichloroethane	9.32	1.0	µg/L	10.0	ND	93.2		70-130	0.00	30	
1,2-Dichloroethane	8.43	1.0	µg/L	10.0	ND	84.3		70-130	1.55	30	
1,1-Dichloroethylene	9.54	1.0	µg/L	10.0	0.970	85.7		70-130	1.56	30	
cis-1,2-Dichloroethylene	8.37	1.0	µg/L	10.0	ND	83.7		70-130	2.66	30	
trans-1,2-Dichloroethylene	8.28	1.0	µg/L	10.0	ND	82.8		70-130	3.19	30	
1,2-Dichloropropane	9.12	1.0	µg/L	10.0	ND	91.2		70-130	2.22	30	
cis-1,3-Dichloropropene	7.06	0.50	µg/L	10.0	ND	70.6		70-130	3.46	30	UJ MSL Sample and FD
trans-1,3-Dichloropropene	6.80	0.50	µg/L	10.0	ND	**68.0**	*	70-130	2.83	30	MS-07A
1,4-Dioxane	65.0	50	µg/L	100	ND	**65.0**	*	70-130	4.97	30	MS-07A UJ MSL Sample and FD
Ethylbenzene	8.82	1.0	µg/L	10.0	ND	88.2		70-130	0.797	30	
2-Hexanone (MBK)	72.4	10	µg/L	100	ND	72.4		70-130	0.414	30	
Isopropylbenzene (Cumene)	8.43	1.0	µg/L	10.0	ND	84.3		70-130	1.67	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341326 - SW-846 5030B											
			356023-MW6B (associated with DUP-02)								
Matrix Spike Dup (B341326-MSD1)		**Source: 23E2893-07**		Prepared: 05/25/23 Analyzed: 05/27/23							
Methyl Acetate	3.85	1.0	µg/L	10.0	ND	**38.5**	*	70-130	1.29	30	MS-07A, V-05 UJ MSL Sample and FD
Methyl tert-Butyl Ether (MTBE)	7.78	1.0	µg/L	10.0	ND	77.8		70-130	1.82	30	
Methyl Cyclohexane	8.88	1.0	µg/L	10.0	ND	88.8		70-130	3.55	30	
Methylene Chloride	8.60	5.0	µg/L	10.0	ND	86.0		70-130	0.116	30	
4-Methyl-2-pentanone (MIBK)	72.0	10	µg/L	100	ND	72.0		70-130	1.28	30	
Styrene	8.38	1.0	µg/L	10.0	ND	83.8		70-130	1.56	30	
1,1,2,2-Tetrachloroethane	7.80	0.50	µg/L	10.0	ND	78.0		70-130	1.65	30	
Tetrachloroethylene	8.74	1.0	µg/L	10.0	ND	87.4		70-130	2.90	30	
Toluene	9.24	1.0	µg/L	10.0	ND	92.4		70-130	3.30	30	
1,2,3-Trichlorobenzene	7.94	5.0	µg/L	10.0	ND	79.4		70-130	7.45	30	
1,2,4-Trichlorobenzene	7.78	1.0	µg/L	10.0	ND	77.8		70-130	3.00	30	
1,1,1-Trichloroethane	13.0	1.0	µg/L	10.0	4.35	86.8		70-130	0.848	30	
1,1,2-Trichloroethane	8.67	1.0	µg/L	10.0	ND	86.7		70-130	0.230	30	
Trichloroethylene	8.98	1.0	µg/L	10.0	ND	89.8		70-130	5.49	30	
Trichlorofluoromethane (Freon 11)	8.68	2.0	µg/L	10.0	ND	86.8		70-130	0.00	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.71	1.0	µg/L	10.0	ND	87.1		70-130	1.27	30	
Vinyl Chloride	10.1	2.0	µg/L	10.0	ND	101		70-130	0.199	30	
m+p Xylene	17.6	2.0	µg/L	20.0	ND	88.1		70-130	2.94	20	
o-Xylene	8.43	1.0	µg/L	10.0	ND	84.3		70-130	0.119	30	
Xylenes (total)	26.0	1.0	µg/L	30.0	ND	86.8		0-200	1.94		
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		98.0		70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103		70-130			
Surrogate: 4-Bromofluorobenzene	*23.7*		µg/L	25.0		94.6		70-130			
			356023-MW10B (associated with DUP-01)								
Matrix Spike Dup (B341326-MSD2)		**Source: 23E2893-12**		Prepared: 05/25/23 Analyzed: 05/27/23							
Acetone	76.3	50	µg/L	100	ND	76.3		70-130	2.67	30	
Benzene	9.37	1.0	µg/L	10.0	ND	93.7		70-130	3.36	30	
Bromochloromethane	9.45	1.0	µg/L	10.0	ND	94.5		70-130	3.43	30	
Bromodichloromethane	7.69	0.50	µg/L	10.0	ND	76.9		70-130	10.1	30	
Bromoform	6.16	1.0	µg/L	10.0	ND	**61.6**	*	70-130	1.29	30	MS-07A UJ MSL Sample and FD
Bromomethane	9.78	2.0	µg/L	10.0	ND	97.8		70-130	5.18	30	
2-Butanone (MEK)	85.2	20	µg/L	100	ND	85.2		70-130	0.837	30	
Carbon Disulfide	79.1	5.0	µg/L	100	ND	79.1		70-130	3.00	30	
Carbon Tetrachloride	8.30	5.0	µg/L	10.0	ND	83.0		70-130	4.48	30	
Chlorobenzene	8.70	1.0	µg/L	10.0	ND	87.0		70-130	2.83	30	
Chlorodibromomethane	7.07	0.50	µg/L	10.0	ND	70.7		70-130	10.2	30	
Chloroethane	8.90	2.0	µg/L	10.0	ND	89.0		70-130	3.42	30	
Chloroform	8.63	2.0	µg/L	10.0	ND	86.3		70-130	5.08	30	
Chloromethane	9.26	2.0	µg/L	10.0	ND	92.6		70-130	3.92	30	
Cyclohexane	9.22	5.0	µg/L	10.0	ND	92.2		70-130	4.25	30	
1,2-Dibromo-3-chloropropane (DBCP)	6.45	5.0	µg/L	10.0	ND	**64.5**	*	70-130	5.28	30	MS-07A UJ MSL Sample and FD
1,2-Dibromoethane (EDB)	8.11	0.50	µg/L	10.0	ND	81.1		70-130	5.05	30	
1,2-Dichlorobenzene	8.80	1.0	µg/L	10.0	ND	88.0		70-130	2.02	30	
1,3-Dichlorobenzene	8.46	1.0	µg/L	10.0	ND	84.6		70-130	3.14	30	
1,4-Dichlorobenzene	8.31	1.0	µg/L	10.0	ND	83.1		70-130	1.09	30	
Dichlorodifluoromethane (Freon 12)	9.67	2.0	µg/L	10.0	ND	96.7		70-130	5.24	30	
1,1-Dichloroethane	8.85	1.0	µg/L	10.0	ND	88.5		70-130	4.64	30	
1,2-Dichloroethane	8.04	1.0	µg/L	10.0	ND	80.4		70-130	5.80	30	
1,1-Dichloroethylene	8.23	1.0	µg/L	10.0	ND	82.3		70-130	7.71	30	
cis-1,2-Dichloroethylene	7.81	1.0	µg/L	10.0	ND	78.1		70-130	6.44	30	
trans-1,2-Dichloroethylene	7.92	1.0	µg/L	10.0	ND	79.2		70-130	4.32	30	
1,2-Dichloropropane	8.43	1.0	µg/L	10.0	ND	84.3		70-130	10.0	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B341326 - SW-846 5030B											
				356023-MW10B (associated with DUP-01)							
Matrix Spike Dup (B341326-MSD2)				**Source: 23E2893-12**	Prepared: 05/25/23 Analyzed: 05/27/23						
cis-1,3-Dichloropropene	6.72	0.50	µg/L	10.0	ND	**67.2**	*	70-130	6.48	30	MS-24 UJ MSL Sample and FD
trans-1,3-Dichloropropene	6.26	0.50	µg/L	10.0	ND	**62.6**	*	70-130	6.49	30	MS-07A UJ MSL Sample and FD
1,4-Dioxane	64.4	50	µg/L	100	ND	**64.4**	*	70-130	10.3	30	MS-24 UJ MSL Sample and FD
Ethylbenzene	8.61	1.0	µg/L	10.0	ND	86.1		70-130	4.65	30	
2-Hexanone (MBK)	68.7	10	µg/L	100	ND	**68.7**	*	70-130	0.985	30	MS-07A UJ MSL Sample and FD
Isopropylbenzene (Cumene)	8.38	1.0	µg/L	10.0	ND	83.8		70-130	2.82	30	
Methyl Acetate	3.43	1.0	µg/L	10.0	ND	**34.3**	*	70-130	10.8	30	MS-07A, V-05 UJ MSL Sample and FD
Methyl tert-Butyl Ether (MTBE)	7.55	1.0	µg/L	10.0	ND	75.5		70-130	2.61	30	
Methyl Cyclohexane	8.46	1.0	µg/L	10.0	ND	84.6		70-130	6.07	30	
Methylene Chloride	8.32	5.0	µg/L	10.0	ND	83.2		70-130	2.26	30	
4-Methyl-2-pentanone (MIBK)	71.9	10	µg/L	100	ND	71.9		70-130	2.86	30	
Styrene	8.33	1.0	µg/L	10.0	ND	83.3		70-130	3.65	30	
1,1,2,2-Tetrachloroethane	8.00	0.50	µg/L	10.0	ND	80.0		70-130	1.37	30	
Tetrachloroethylene	8.32	1.0	µg/L	10.0	ND	83.2		70-130	3.43	30	
Toluene	8.75	1.0	µg/L	10.0	ND	87.5		70-130	5.45	30	
1,2,3-Trichlorobenzene	8.40	5.0	µg/L	10.0	ND	84.0		70-130	3.27	30	
1,2,4-Trichlorobenzene	7.80	1.0	µg/L	10.0	ND	78.0		70-130	0.893	30	
1,1,1-Trichloroethane	8.38	1.0	µg/L	10.0	ND	83.8		70-130	6.24	30	
1,1,2-Trichloroethane	8.35	1.0	µg/L	10.0	ND	83.5		70-130	5.93	30	
Trichloroethylene	8.39	1.0	µg/L	10.0	ND	83.9		70-130	3.40	30	
Trichlorofluoromethane (Freon 11)	8.58	2.0	µg/L	10.0	ND	85.8		70-130	4.11	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.63	1.0	µg/L	10.0	ND	86.3		70-130	2.74	30	
Vinyl Chloride	9.73	2.0	µg/L	10.0	ND	97.3		70-130	6.37	30	
m+p Xylene	17.0	2.0	µg/L	20.0	ND	84.9		70-130	4.77	20	
o-Xylene	8.24	1.0	µg/L	10.0	ND	82.4		70-130	4.28	30	
Xylenes (total)	25.2	1.0	µg/L	30.0	ND	84.1		0-200	4.61		
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101		70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6		70-130			
Surrogate: 4-Bromofluorobenzene	*23.6*		µg/L	25.0		94.4		70-130			

jar 11/12/2023

SVOC

NYSDEC PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk Road
Method : SW-846 8270D (or specify)
Laboratory and SDG(s): Pace **SDG#** 23E2893, 23E2901
Date: 11/7/2023
Reviewer: Julie Ricardi
Review Level [X] CATEGORY A

1. ☑ **Case Narrative Review and Data Package Completeness** COMMENTS
   Were problems noted? YES NO (circle one)

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all water samples extracted within the 7 day holding time, and/or soil within 14 days? YES NO (circle one)
   Were extracts analyzed within 40 days of extraction? YES NO (circle one)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are field blanks free of contamination? YES NO NA (circle one)

4. ☑ **Laboratory Control Sample Results** (Nominal water&soil limits: Base/Neutral 50-140%, Acid 30-140%)
   Were all results within limits? YES NO (circle one) Lab Limits

5. ☑ **Matrix Spike** (Nominal water & soil limits: Base/neutral 50-140; Acid 30-140; RPD water = 20; RPD soil = 35)
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within limits? YES NO NA (circle one) See attached; J 1,4-D in MW6B / DUP-02 MSRPD

6. ☑ **Surrogate Recovery** (Nominal water and soil limits: Base/Neutral 50-140%, Acid 30-140%)
   Were all results within limits? YES NO (circle one)
   Were any recoveries < 10%? (Reject fraction compounds if ND and recoveries are < 10%)

7. ☑ **Field Duplicates** (RPD limits = water:50, soil:100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were RPDs within criteria. YES NO NA (circle one)
   MW6B / DUP-02: RPD = 71 J both results, FD

8. ☑ **Reporting Limits:**
   Were samples analyzed at a dilution? YES NO (circle one)

9. ☑ **Electronic Data Review and Edits**:
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B341039 - SW-846 3510C											
Blank (B341039-BLK1)				Prepared: 05/23/23 Analyzed: 05/25/23							
1,4-Dioxane	ND	0.20	µg/L								
Surrogate: 1,4-Dioxane-d8	*2.64*		µg/L	10.0		26.4	15-110				
LCS (B341039-BS1)				Prepared: 05/23/23 Analyzed: 05/29/23							
1,4-Dioxane	10.3	0.20	µg/L	10.0		103	40-140				
Surrogate: 1,4-Dioxane-d8	*3.26*		µg/L	10.0		32.6	15-110				
LCS Dup (B341039-BSD1)				Prepared: 05/23/23 Analyzed: 05/25/23							
1,4-Dioxane	10.9	0.20	µg/L	10.0		109	40-140	5.31		30	
Surrogate: 1,4-Dioxane-d8	*2.85*		µg/L	10.0		28.5	15-110				
Matrix Spike (B341039-MS2)	**Source: 23E2893-12**			Prepared: 05/23/23 Analyzed: 06/02/23							
1,4-Dioxane	11.8	0.21	µg/L	10.5	ND	112	40-140				
Surrogate: 1,4-Dioxane-d8	*3.52*		µg/L	10.5		33.4	15-110				
Matrix Spike Dup (B341039-MSD2)	**Source: 23E2893-12**			Prepared: 05/23/23 Analyzed: 06/02/23							
1,4-Dioxane	10.8	0.20	µg/L	10.0	ND	108	40-140	8.40		20	
Surrogate: 1,4-Dioxane-d8	*3.39*		µg/L	10.0		33.9	15-110				
Batch B341193 - SW-846 3510C											
Blank (B341193-BLK1)				Prepared: 05/24/23 Analyzed: 05/29/23							
1,4-Dioxane	ND	0.20	µg/L								
Surrogate: 1,4-Dioxane-d8	*3.03*		µg/L	10.0		30.3	15-110				
LCS (B341193-BS1)				Prepared: 05/24/23 Analyzed: 05/29/23							
1,4-Dioxane	10.2	0.20	µg/L	10.0		102	40-140				
Surrogate: 1,4-Dioxane-d8	*2.96*		µg/L	10.0		29.6	15-110				
LCS Dup (B341193-BSD1)				Prepared: 05/24/23 Analyzed: 05/29/23							
1,4-Dioxane	10.8	0.20	µg/L	10.0		108	40-140	5.85		30	
Surrogate: 1,4-Dioxane-d8	*3.22*		µg/L	10.0		32.2	15-110				
Matrix Spike (B341193-MS3)	**Source: 23E2893-07**			Prepared: 05/24/23 Analyzed: 05/29/23							
1,4-Dioxane	5.90	0.20	µg/L	10.0	0.467	54.3	40-140				
Surrogate: 1,4-Dioxane-d8	*6.52*		µg/L	10.0		65.2	15-110				
Matrix Spike Dup (B341193-MSD3)	**Source: 23E2893-07**			Prepared: 05/24/23 Analyzed: 05/29/23							
1,4-Dioxane	11.6	0.20	µg/L	10.1	0.467	110	40-140	**65.2**	*	20	R-06
Surrogate: 1,4-Dioxane-d8	*3.27*		µg/L	10.1		32.4	15-110	MSRPD Sample and FD			

jar 11/12/2023

CATEGORY A REVIEW REPORT
AUGUST 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in August 2023 at Mohonk Road Industrial Plant in High Falls, New York, and analyzed by Pace Analytical Services located in East Longmeadow, Massachusetts. Samples were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) methods:

- Volatile Organic Compounds (VOCs) by Method 8260D
- 1,4-Dioxane by Method 8270E-Selected Ion Monitoring (SIM)

Results were reported in the following sample delivery group (SDG):

- 23I0127

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = Target analyte is not detected at or above the reporting limit
UJ = Target analyte is not detected, value is estimated
J = Result is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review sample data are interpreted to meet the data quality objectives.

VOCs by Method 8260D

- The MS/MSD associated with sample 356023-MW-11B had percent recoveries that were less than project limits for a subset of VOCs. Affected target analytes were not detected in the sample or associated field duplicate 356023-MW-DUP, and reporting limits were qualified estimated (UJ). Qualified results are listed in Table 3 with reason code MSL.

- Reporting limits are elevated for a subset of samples due to dilutions required for target compound concentrations.

1,4-Dioxane by Method 8270E-SIM

- Sample 356023-MW-11B was extracted 17 days after expiration of the 7 day holding time. The associated field duplicate 356023-MW-DUP was extracted within the holding time and 1,4-dioxane was detected in both the sample and field duplicate at a concentration of 2.8 micrograms per liter (µg/L). The result for 1,4-dioxane in sample 356023-MW-11B was qualified estimated (J) due to the missed holding time. The qualified result is included in Table 3 with reason code HTG.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

USEPA, 2010. "Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D"; HW-22, Revision 5; USEPA Region II Hazardous Waste Support Branch; December 2010.

Data Validator: Julie Ricardi

Julie Ricardi

Date: November 8, 2023

Reviewed by:

Chris Ricardi

November 12, 2023

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANLYTICAL METHODS
CATEGORY A REVIEW REPORT
AUGUST 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

					Lab ID	PACE	PACE
					Method Class	VOCs	SVOCs
					Analysis Method	SW8260	SW8270
					Fraction	N	N
Lab SDG	**Media**	**Location**	**Field Sample ID**	**Sample Date**	**Qc Code**	Parameters	Parameters
23I0127	GW	ERT-1	356023-ERT-1	8/29/2023	FS	51	1
23I0127	GW	ERT-4	356023-ERT-4	8/30/2023	FS	51	1
23I0127	GW	MW-11B	356023-MW-11B	8/30/2023	FS	51	1
23I0127	GW	MW-11B	356023-MW-DUP	8/30/2023	FD	51	1
23I0127	GW	MW-12B	356023-MW-12B	8/30/2023	FS	51	1
23I0127	GW	MW-15B	356023-MW-15B	8/29/2023	FS	51	1
23I0127	GW	MW-4	356023-MW-4	8/30/2023	FS	51	1
23I0127	GW	MW-5B	356023-MW-5B	8/30/2023	FS	51	1
23I0127	GW	MW-5R	356023-MW-5R	8/29/2023	FS	51	1
23I0127	GW	MW-7R	356023-MW-7R	8/29/2023	FS	51	1
23I0127	BW	QC	Trip Blank	8/30/2023	TB	51	

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TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
AUGUST 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Lab Sample Delivery Group	23I0127		23I0127		23I0127		23I0127		23I0127		23I0127		23I0127		23I0127		23I0127		23I0127	
		Location	ERT-1		ERT-4		MW-11B		MW-12B		MW-15B		MW-4		MW-5B		MW-5R		MW-7R		QC	
		Sample Date	8/29/2023		8/30/2023		8/30/2023		8/30/2023		8/29/2023		8/30/2023		8/30/2023		8/29/2023		8/29/2023		8/30/2023	
		Sample ID	356023-ERT-1		356023-ERT-4		356023-MW-DUP		356023-MW-11B		356023-MW-12B		356023-MW-15B		356023-MW-4		356023-MW-5B		356023-MW-5R		356023-MW-7R		Trip Blank	
		Qc Code	FS		FS		FD		FS		FS		FS		FS		FS		FS		TB	
Method Class	**Fraction**	**Parameter**	**Units**	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
SVOCs	N	1,4-Dioxane	UG/L	4.9		5.6		2.8		2.8	J	0.7		4.4		2.2		4		2.5		1.6		
VOCs	N	1,1,1-Trichloroethane	UG/L	32		2300		0.88	J	0.92	J	1.6		11		390		720		27		57		1 U
VOCs	N	1,1,2,2-Tetrachloroethane	UG/L	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5 U
VOCs	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,1,2-Trichloroethane	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,1-Dichloroethane	UG/L	6.2		51		2.7		2.5		1.5		6.9		22		14		2.4		32		1 U
VOCs	N	1,1-Dichloroethene	UG/L	13		210		4.4		4.4		1.9		13		57		81		8.6		9		1 U
VOCs	N	1,2,3-Trichlorobenzene	UG/L	5	U	200	U	5	UJ	5	UJ	5	U	5	U	25	U	50	U	5	U	5	U	5 U
VOCs	N	1,2,4-Trichlorobenzene	UG/L	1	U	40	U	1	UJ	1	UJ	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,2-Dibromo-3-chloropropane	UG/L	5	U	200	U	5	U	5	U	5	U	5	U	25	U	50	U	5	U	5	U	5 U
VOCs	N	1,2-Dibromoethane	UG/L	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5 U
VOCs	N	1,2-Dichlorobenzene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,2-Dichloroethane	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,2-Dichloropropane	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,3-Dichlorobenzene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,4-Dichlorobenzene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	1,4-Dioxane	UG/L	50	U	2000	U	50	U	50	U	50	U	50	U	250	U	500	U	50	U	50	U	50 U
VOCs	N	2-Butanone	UG/L	20	U	120	J	20	U	20	U	20	U	20	U	100	U	200	U	20	U	20	U	20 U
VOCs	N	2-Hexanone	UG/L	10	U	400	U	10	U	10	U	10	U	10	U	50	U	100	U	10	U	10	U	10 U
VOCs	N	4-Methyl-2-pentanone	UG/L	10	U	400	U	10	U	10	U	10	U	10	U	50	U	100	U	10	U	10	U	10 U
VOCs	N	Acetic acid, methyl ester	UG/L	1	U	40	U	1	UJ	1	UJ	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Acetone	UG/L	50	U	110	J	2	J	2.1	J	2.2	J	50	U	250	U	500	U	50	U	50	U	50 U
VOCs	N	Benzene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Bromochloromethane	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Bromodichloromethane	UG/L	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5 U
VOCs	N	Bromoform	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Bromomethane	UG/L	2	U	80	U	2	U	2	U	2	U	2	U	10	U	20	U	2	U	2	U	2 U
VOCs	N	Carbon disulfide	UG/L	5	U	200	U	5	U	5	U	5	U	5	U	25	U	50	U	5	U	5	U	5 U
VOCs	N	Carbon tetrachloride	UG/L	5	U	200	U	5	U	5	U	5	U	5	U	25	U	50	U	5	U	5	U	5 U
VOCs	N	Chlorobenzene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Chloroethane	UG/L	2	U	80	U	2	U	2	U	2	U	2	U	10	U	20	U	2	U	2	U	2 U
VOCs	N	Chloroform	UG/L	0.29	J	80	U	2	U	2	U	2	U	2	U	10	U	20	U	2	U	0.19	J	2 U
VOCs	N	Chloromethane	UG/L	2	U	80	U	2	U	2	U	2	U	2	U	10	U	20	U	2	U	2	U	2 U
VOCs	N	cis-1,2-Dichloroethene	UG/L	0.35	J	40	U	1	U	1	U	1	U	1	U	12		10	U	1	U	0.98	J	1 U
VOCs	N	cis-1,3-Dichloropropene	UG/L	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5 U
VOCs	N	Cyclohexane	UG/L	5	U	200	U	5	U	5	U	5	U	5	U	25	U	50	U	5	U	5	U	5 U
VOCs	N	Dibromochloromethane	UG/L	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5 U
VOCs	N	Dichlorodifluoromethane	UG/L	2	U	80	U	2	U	2	U	2	U	2	U	10	U	20	U	2	U	2	U	2 U
VOCs	N	Ethylbenzene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Isopropylbenzene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Methyl cyclohexane	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Methyl Tertbutyl Ether	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Methylene chloride	UG/L	5	U	200	U	5	U	5	U	5	U	5	U	25	U	50	U	5	U	5	U	5 U
VOCs	N	Styrene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Tetrachloroethene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	Toluene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	trans-1,2-Dichloroethene	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U
VOCs	N	trans-1,3-Dichloropropene	UG/L	0.5	U	20	U	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	0.5	U	0.5 U
VOCs	N	Trichloroethene	UG/L	3.8		120		0.78	J	0.86	J	0.55	J	1.3		260		36		3.2		0.8	J	1 U
VOCs	N	Trichlorofluoromethane	UG/L	2	U	80	U	2	U	2	U	2	U	2	U	10	U	20	U	2	U	2	U	2 U
VOCs	N	Vinyl chloride	UG/L	2	U	80	U	2	U	2	U	2	U	2	U	10	U	20	U	2	U	2	U	2 U
VOCs	N	Xylenes, Total	UG/L	1	U	40	U	1	U	1	U	1	U	1	U	5	U	10	U	1	U	1	U	1 U

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TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW REPORT
AUGUST 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

Lab SDG	Location	Field Sample ID	Lab Sample ID	Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units	Lab ID
23I0127	MW-11B	356023-MW-11B	23I0127-09	SW8260	N	1,2,4-Trichlorobenzene	1	U	1	UJ	MSL	UG/L	PACE
23I0127	MW-11B	356023-MW-11B	23I0127-09	SW8260	N	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L	PACE
23I0127	MW-11B	356023-MW-11B	23I0127-09	SW8260	N	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L	PACE
23I0127	MW-11B	356023-MW-11B	23I0127-09RE1	SW8270	N	1,4-Dioxane	2.8		2.8	J	HTG	UG/L	PACE
23I0127	MW-11B	356023-MW-DUP	23I0127-10	SW8260	N	1,2,4-Trichlorobenzene	1	U	1	UJ	MSL	UG/L	PACE
23I0127	MW-11B	356023-MW-DUP	23I0127-10	SW8260	N	Acetic acid, methyl ester	1	U	1	UJ	MSL	UG/L	PACE
23I0127	MW-11B	356023-MW-DUP	23I0127-10	SW8260	N	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	UG/L	PACE

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CATEGORY A REVIEW REPORT
AUGUST 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk Road
Method : SW-846 8260C (or specify)
Laboratory: Pace **SDG(s):** 23I0127
Date: 11/8/2023
Reviewer: Julie Ricardi
Review Level [X] CATEGORY A

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
Were problems noted? See below and attached for Cat A Review QC items noted in narrative.

Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
Were all samples properly preserved and analyzed within the 14 day holding time? (7 day holding time for unpreserved samples) YES NO (circle one) (See Table 1, USEPA Region 2 SOP HW-24, Rev 4, Sep 2014) ☐ **QC Blanks**
Are method blanks free of contamination? YES NO (circle one)

Are Trip blanks free of contamination? YES NO (circle one)

Are Rinse blanks free of contamination? YES NO NA (circle one)

3. ☑ **Matrix Spike** – Use nominal limits for recovery (water and soil 70-130%) and relative percent difference (RPD) (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
Were MS/MSDs submitted/analyzed? YES NO
356023-MW11B MS/MSD --See attached for eval and quals
Were all results within above QC limits? YES NO NA (circle one)
Were any recoveries <20%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]
Bromomethane, chloromethane, vinyl chloride high bias (>130%); ND in sample and field dup
Methyl acetate, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene recoveries <70%; UJ MW11B and MW-DUP

4. ☑ **Laboratory Control Sample Results** – Use nominal limits for recovery (water and soil 70-130%) and RPD (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.

Were all results within above QC limits? YES NO (circle one)
Bromomethane, vinyl chloride high bias (>130%); ND in samples, no quals

5. ☑ **Surrogate Recovery** – Use nominal limits for recovery (water 80-120%, soil 70-130%) based on Region 2 SOP guidance.

Were all results within above QC limits? YES NO (circle one)
Were any results <10%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

6. ☑ **Field Duplicates** - Region 2 limits (water RPD 50, soil RPD 100)
Were Field Duplicates submitted/analyzed? YES NO
MW-DUP / MW11B – Okay
Were all results within Region 2 Limits? YES NO NA (circle one)

7. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)
Subset ND at 5X: 356023-MW4
Subset ND at 10X: 356023-MW5B
Subset ND at 40X: 356023-ERT4

8. ☑ **Electronic Data Review and Edits**
Does the EDD match the Form Is? YES NO (circle one)

9. ☑ **Table Review**
Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B351117 - SW-846 5030B											
Blank (B351117-BLK1)				Prepared & Analyzed: 09/06/23							
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.3*		µg/L	25.0		105	70-130				
Surrogate: Toluene-d8	*24.0*		µg/L	25.0		95.8	70-130				
Surrogate: 4-Bromofluorobenzene	*21.4*		µg/L	25.0		85.6	70-130				
LCS (B351117-BS1)				Prepared & Analyzed: 09/06/23							
Acetone	106	50	µg/L	100		106	70-160				†
Benzene	12.0	1.0	µg/L	10.0		120	70-130				
Bromochloromethane	12.5	1.0	µg/L	10.0		125	70-130			V-20	
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130				
Bromoform	7.97	1.0	µg/L	10.0		79.7	70-130				
Bromomethane	14.3	2.0	µg/L	10.0		143	40-160	ND; no qual		V-20	†
2-Butanone (MEK)	118	20	µg/L	100		118	40-160				†
Carbon Disulfide	112	5.0	µg/L	100		112	70-130				
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106	70-130				
Chlorobenzene	10.3	1.0	µg/L	10.0		103	70-130				
Chlorodibromomethane	9.98	0.50	µg/L	10.0		99.8	70-130				
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130				
Chloroform	11.0	2.0	µg/L	10.0		110	70-130				
Chloromethane	12.9	2.0	µg/L	10.0		129	40-160			V-20	†
Cyclohexane	10.9	5.0	µg/L	10.0		109	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.40	5.0	µg/L	10.0		84.0	70-130				
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130				
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130				
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130				
1,4-Dichlorobenzene	9.63	1.0	µg/L	10.0		96.3	70-130				
Dichlorodifluoromethane (Freon 12)	12.1	2.0	µg/L	10.0		121	40-160				†
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130				
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130				
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130				
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
1,2-Dichloropropane	11.4	1.0	µg/L	10.0		114	70-130				
cis-1,3-Dichloropropene	10.7	0.50	µg/L	10.0		107	70-130				
trans-1,3-Dichloropropene	10.0	0.50	µg/L	10.0		100	70-130				
1,4-Dioxane	75.8	50	µg/L	100		75.8	40-130				†
Ethylbenzene	9.69	1.0	µg/L	10.0		96.9	70-130				
2-Hexanone (MBK)	82.6	10	µg/L	100		82.6	70-160				†
Isopropylbenzene (Cumene)	9.00	1.0	µg/L	10.0		90.0	70-130				
Methyl Acetate	10.6	1.0	µg/L	10.0		106	70-130				
Methyl tert-Butyl Ether (MTBE)	10.5	1.0	µg/L	10.0		105	70-130				
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130				
Methylene Chloride	11.2	5.0	µg/L	10.0		112	70-130				
4-Methyl-2-pentanone (MIBK)	92.8	10	µg/L	100		92.8	70-160				†
Styrene	9.40	1.0	µg/L	10.0		94.0	70-130				
1,1,2,2-Tetrachloroethane	9.10	0.50	µg/L	10.0		91.0	70-130				
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130				
Toluene	10.7	1.0	µg/L	10.0		107	70-130				
1,2,3-Trichlorobenzene	7.84	5.0	µg/L	10.0		78.4	70-130				
1,2,4-Trichlorobenzene	7.61	1.0	µg/L	10.0		76.1	70-130			V-05	
1,1,1-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B351117 - SW-846 5030B											
LCS (B351117-BS1)				Prepared & Analyzed: 09/06/23							
1,1,2-Trichloroethane	10.8	1.0	µg/L	10.0		108	70-130				
Trichloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.0		106	70-130				
Vinyl Chloride	13.1	2.0	µg/L	10.0		131	40-160	ND; no qual		V-20	†
m+p Xylene	19.6	2.0	µg/L	20.0		97.8	70-130				
o-Xylene	9.27	1.0	µg/L	10.0		92.7	70-130				
Xylenes (total)	28.8	1.0	µg/L	30.0		96.1	0-200				
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130				
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104	70-130				
Surrogate: 4-Bromofluorobenzene	*23.0*		µg/L	25.0		92.1	70-130				
LCS Dup (B351117-BSD1)				Prepared & Analyzed: 09/06/23							
Acetone	99.4	50	µg/L	100		99.4	70-160	6.46	25		†
Benzene	11.7	1.0	µg/L	10.0		117	70-130	2.54	25		
Bromochloromethane	12.6	1.0	µg/L	10.0		126	70-130	0.878	25	V-20	
Bromodichloromethane	10.6	0.50	µg/L	10.0		106	70-130	1.59	25		
Bromoform	8.05	1.0	µg/L	10.0		80.5	70-130	0.999	25		
Bromomethane	14.0	2.0	µg/L	10.0		140	40-160	2.69	25	V-20	†
2-Butanone (MEK)	112	20	µg/L	100		112	40-160	4.89	25	ND; no qual	†
Carbon Disulfide	111	5.0	µg/L	100		111	70-130	0.323	25		
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101	70-130	4.75	25		
Chlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.293	25		
Chlorodibromomethane	9.78	0.50	µg/L	10.0		97.8	70-130	2.02	25		
Chloroethane	10.8	2.0	µg/L	10.0		108	70-130	2.06	25		
Chloroform	11.1	2.0	µg/L	10.0		111	70-130	0.542	25		
Chloromethane	12.2	2.0	µg/L	10.0		122	40-160	5.25	25	V-20	†
Cyclohexane	10.7	5.0	µg/L	10.0		107	70-130	2.50	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.12	5.0	µg/L	10.0		81.2	70-130	3.39	25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130	1.23	25		
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	0.0989	25		
1,3-Dichlorobenzene	9.91	1.0	µg/L	10.0		99.1	70-130	2.79	25		
1,4-Dichlorobenzene	9.59	1.0	µg/L	10.0		95.9	70-130	0.416	25		
Dichlorodifluoromethane (Freon 12)	11.6	2.0	µg/L	10.0		116	40-160	4.73	25		†
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109	70-130	4.22	25		
1,2-Dichloroethane	9.86	1.0	µg/L	10.0		98.6	70-130	3.10	25		
1,1-Dichloroethylene	9.94	1.0	µg/L	10.0		99.4	70-130	5.57	25		
cis-1,2-Dichloroethylene	10.6	1.0	µg/L	10.0		106	70-130	0.567	25		
trans-1,2-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	3.59	25		
1,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	70-130	1.06	25		
cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130	2.16	25		
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130	0.794	25		
1,4-Dioxane	74.1	50	µg/L	100		74.1	40-130	2.34	50		† ‡
Ethylbenzene	9.63	1.0	µg/L	10.0		96.3	70-130	0.621	25		
2-Hexanone (MBK)	88.4	10	µg/L	100		88.4	70-160	6.80	25		†
Isopropylbenzene (Cumene)	8.87	1.0	µg/L	10.0		88.7	70-130	1.45	25		
Methyl Acetate	10.8	1.0	µg/L	10.0		108	70-130	2.15	25		
Methyl tert-Butyl Ether (MTBE)	10.3	1.0	µg/L	10.0		103	70-130	2.21	25		
Methyl Cyclohexane	10.3	1.0	µg/L	10.0		103	70-130	0.681	25		
Methylene Chloride	10.9	5.0	µg/L	10.0		109	70-130	2.54	25		
4-Methyl-2-pentanone (MIBK)	90.5	10	µg/L	100		90.5	70-160	2.53	25		†
Styrene	9.64	1.0	µg/L	10.0		96.4	70-130	2.52	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B351117 - SW-846 5030B										
LCS Dup (B351117-BSD1)				Prepared & Analyzed: 09/06/23						
1,1,2,2-Tetrachloroethane	9.20	0.50	µg/L	10.0		92.0	70-130	1.09	25	
Tetrachloroethylene	10.3	1.0	µg/L	10.0		103	70-130	2.12	25	
Toluene	10.7	1.0	µg/L	10.0		107	70-130	0.186	25	
1,2,3-Trichlorobenzene	8.04	5.0	µg/L	10.0		80.4	70-130	2.52	25	
1,2,4-Trichlorobenzene	7.64	1.0	µg/L	10.0		76.4	70-130	0.393	25	V-05
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	4.25	25	
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	0.465	25	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	1.01	25	
Trichlorofluoromethane (Freon 11)	10.0	2.0	µg/L	10.0		100	70-130	6.20	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	1.0	µg/L	10.0		103	70-130	2.11	25	
Vinyl Chloride	12.5	2.0	µg/L	10.0		125	40-160	4.86	25	V-20 †
m+p Xylene	19.6	2.0	µg/L	20.0		98.0	70-130	0.153	25	
o-Xylene	9.32	1.0	µg/L	10.0		93.2	70-130	0.538	25	
Xylenes (total)	28.9	1.0	µg/L	30.0		96.4	0-200	0.277		
Surrogate: 1,2-Dichloroethane-d4	*25.1*		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	*23.4*		µg/L	25.0		93.5	70-130			
Matrix Spike (B351117-MS1)	**Source: 23I0127-09**			Prepared: 09/06/23 Analyzed: 09/07/23						
Acetone	94.1	50	µg/L	100	2.13	92.0	70-130			
Benzene	11.0	1.0	µg/L	10.0	ND	110	70-130			
Bromochloromethane	11.8	1.0	µg/L	10.0	ND	118	70-130			V-20
Bromodichloromethane	10.2	0.50	µg/L	10.0	ND	102	70-130			
Bromoform	7.51	1.0	µg/L	10.0	ND	75.1	70-130			
Bromomethane	12.9	2.0	µg/L	10.0	ND	129	70-130			V-20
2-Butanone (MEK)	101	20	µg/L	100	ND	101	70-130			
Carbon Disulfide	109	5.0	µg/L	100	ND	109	70-130			
Carbon Tetrachloride	10.5	5.0	µg/L	10.0	ND	105	70-130			
Chlorobenzene	9.71	1.0	µg/L	10.0	ND	97.1	70-130			
Chlorodibromomethane	9.29	0.50	µg/L	10.0	ND	92.9	70-130			
Chloroethane	11.0	2.0	µg/L	10.0	ND	110	70-130			
Chloroform	10.7	2.0	µg/L	10.0	ND	107	70-130			
Chloromethane	13.7	2.0	µg/L	10.0	ND	**137** *	70-130	ND; no qual		MS-15, V-20
Cyclohexane	11.0	5.0	µg/L	10.0	ND	110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.21	5.0	µg/L	10.0	ND	82.1	70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0	ND	101	70-130			
1,2-Dichlorobenzene	8.98	1.0	µg/L	10.0	ND	89.8	70-130			
1,3-Dichlorobenzene	8.98	1.0	µg/L	10.0	ND	89.8	70-130			
1,4-Dichlorobenzene	8.79	1.0	µg/L	10.0	ND	87.9	70-130			
Dichlorodifluoromethane (Freon 12)	12.6	2.0	µg/L	10.0	ND	126	70-130			
1,1-Dichloroethane	13.5	1.0	µg/L	10.0	2.49	110	70-130			
1,2-Dichloroethane	9.68	1.0	µg/L	10.0	ND	96.8	70-130			
1,1-Dichloroethylene	14.4	1.0	µg/L	10.0	4.43	100	70-130			
cis-1,2-Dichloroethylene	9.54	1.0	µg/L	10.0	ND	95.4	70-130			
trans-1,2-Dichloroethylene	9.89	1.0	µg/L	10.0	ND	98.9	70-130			
1,2-Dichloropropane	10.8	1.0	µg/L	10.0	ND	108	70-130			
cis-1,3-Dichloropropene	8.80	0.50	µg/L	10.0	ND	88.0	70-130			
trans-1,3-Dichloropropene	9.28	0.50	µg/L	10.0	ND	92.8	70-130			
1,4-Dioxane	80.8	50	µg/L	100	ND	80.8	70-130			
Ethylbenzene	9.08	1.0	µg/L	10.0	ND	90.8	70-130			
2-Hexanone (MBK)	86.8	10	µg/L	100	ND	86.8	70-130			
Isopropylbenzene (Cumene)	8.26	1.0	µg/L	10.0	ND	82.6	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B351117 - SW-846 5030B											
Matrix Spike (B351117-MS1)	**Source: 23I0127-09**			Prepared: 09/06/23 Analyzed: 09/07/23							
Methyl Acetate	6.78	1.0	µg/L	10.0	ND	**67.8**	*	70-130			UJ MSL Sample and FD MS-24
Methyl tert-Butyl Ether (MTBE)	9.50	1.0	µg/L	10.0	ND	95.0		70-130			
Methyl Cyclohexane	9.93	1.0	µg/L	10.0	ND	99.3		70-130			
Methylene Chloride	10.3	5.0	µg/L	10.0	ND	103		70-130			
4-Methyl-2-pentanone (MIBK)	86.3	10	µg/L	100	ND	86.3		70-130			
Styrene	8.48	1.0	µg/L	10.0	ND	84.8		70-130			
1,1,2,2-Tetrachloroethane	9.30	0.50	µg/L	10.0	ND	93.0		70-130			
Tetrachloroethylene	9.78	1.0	µg/L	10.0	ND	97.8		70-130			
Toluene	10.5	1.0	µg/L	10.0	ND	105		70-130			
1,2,3-Trichlorobenzene	5.97	5.0	µg/L	10.0	ND	**59.7**	*	70-130			UJ MSL Sample and FD MS-07A
1,2,4-Trichlorobenzene	5.79	1.0	µg/L	10.0	ND	**57.9**	*	70-130			MS-07A, V-05
1,1,1-Trichloroethane	11.7	1.0	µg/L	10.0	0.920	108		70-130			UJ MSL Sample and FD
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0	ND	103		70-130			
Trichloroethylene	10.8	1.0	µg/L	10.0	0.860	99.7		70-130			
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0	ND	110		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6	1.0	µg/L	10.0	ND	106		70-130			
Vinyl Chloride	13.1	2.0	µg/L	10.0	ND	**131**	*	70-130			ND; no qual MS-15, V-20
m+p Xylene	18.3	2.0	µg/L	20.0	ND	91.5		70-130			
o-Xylene	8.33	1.0	µg/L	10.0	ND	83.3		70-130			
Xylenes (total)	26.6	1.0	µg/L	30.0	ND	88.8		0-200			
Surrogate: 1,2-Dichloroethane-d4	*26.2*		µg/L	25.0		105		70-130			
Surrogate: Toluene-d8	*26.5*		µg/L	25.0		106		70-130			
Surrogate: 4-Bromofluorobenzene	*23.1*		µg/L	25.0		92.2		70-130			
Matrix Spike Dup (B351117-MSD1)	**Source: 23I0127-09**			Prepared: 09/06/23 Analyzed: 09/07/23							
Acetone	93.1	50	µg/L	100	2.13	90.9		70-130	1.10	30	
Benzene	10.9	1.0	µg/L	10.0	ND	109		70-130	1.55	30	
Bromochloromethane	11.6	1.0	µg/L	10.0	ND	116		70-130	2.39	30	V-20
Bromodichloromethane	10.1	0.50	µg/L	10.0	ND	101		70-130	1.09	30	
Bromoform	7.45	1.0	µg/L	10.0	ND	74.5		70-130	0.802	30	
Bromomethane	13.5	2.0	µg/L	10.0	ND	**135**	*	70-130	4.47	30	MS-24, V-20 ND; no qual
2-Butanone (MEK)	104	20	µg/L	100	ND	104		70-130	2.93	30	
Carbon Disulfide	109	5.0	µg/L	100	ND	109		70-130	0.698	30	
Carbon Tetrachloride	10.8	5.0	µg/L	10.0	ND	108		70-130	2.26	30	
Chlorobenzene	9.66	1.0	µg/L	10.0	ND	96.6		70-130	0.516	30	
Chlorodibromomethane	9.36	0.50	µg/L	10.0	ND	93.6		70-130	0.751	30	
Chloroethane	10.7	2.0	µg/L	10.0	ND	107		70-130	2.48	30	
Chloroform	10.5	2.0	µg/L	10.0	ND	105		70-130	1.60	30	
Chloromethane	13.1	2.0	µg/L	10.0	ND	**131**	*	70-130	4.41	30	MS-15, V-20 ND; no qual
Cyclohexane	10.8	5.0	µg/L	10.0	ND	108		70-130	2.48	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.99	5.0	µg/L	10.0	ND	79.9		70-130	2.72	30	
1,2-Dibromoethane (EDB)	9.77	0.50	µg/L	10.0	ND	97.7		70-130	2.92	30	
1,2-Dichlorobenzene	9.09	1.0	µg/L	10.0	ND	90.9		70-130	1.22	30	
1,3-Dichlorobenzene	8.83	1.0	µg/L	10.0	ND	88.3		70-130	1.68	30	
1,4-Dichlorobenzene	9.33	1.0	µg/L	10.0	ND	93.3		70-130	5.96	30	
Dichlorodifluoromethane (Freon 12)	12.4	2.0	µg/L	10.0	ND	124		70-130	1.52	30	
1,1-Dichloroethane	13.4	1.0	µg/L	10.0	2.49	109		70-130	1.26	30	
1,2-Dichloroethane	9.45	1.0	µg/L	10.0	ND	94.5		70-130	2.40	30	
1,1-Dichloroethylene	14.2	1.0	µg/L	10.0	4.43	97.5		70-130	1.82	30	
cis-1,2-Dichloroethylene	9.67	1.0	µg/L	10.0	ND	96.7		70-130	1.35	30	
trans-1,2-Dichloroethylene	9.59	1.0	µg/L	10.0	ND	95.9		70-130	3.08	30	
1,2-Dichloropropane	10.9	1.0	µg/L	10.0	ND	109		70-130	0.647	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B351117 - SW-846 5030B											
Matrix Spike Dup (B351117-MSD1)	**Source: 23I0127-09**			Prepared: 09/06/23 Analyzed: 09/07/23							
cis-1,3-Dichloropropene	8.72	0.50	µg/L	10.0	ND	87.2		70-130	0.913	30	
trans-1,3-Dichloropropene	9.05	0.50	µg/L	10.0	ND	90.5		70-130	2.51	30	
1,4-Dioxane	79.8	50	µg/L	100	ND	79.8		70-130	1.18	30	
Ethylbenzene	9.14	1.0	µg/L	10.0	ND	91.4		70-130	0.659	30	
2-Hexanone (MBK)	77.7	10	µg/L	100	ND	77.7		70-130	11.1	30	
Isopropylbenzene (Cumene)	8.19	1.0	µg/L	10.0	ND	81.9		70-130	0.851	30	
Methyl Acetate	7.17	1.0	µg/L	10.0	ND	71.7		70-130	5.59	30	
Methyl tert-Butyl Ether (MTBE)	9.27	1.0	µg/L	10.0	ND	92.7		70-130	2.45	30	
Methyl Cyclohexane	9.63	1.0	µg/L	10.0	ND	96.3		70-130	3.07	30	
Methylene Chloride	10.1	5.0	µg/L	10.0	ND	101		70-130	1.47	30	
4-Methyl-2-pentanone (MIBK)	84.2	10	µg/L	100	ND	84.2		70-130	2.40	30	
Styrene	8.37	1.0	µg/L	10.0	ND	83.7		70-130	1.31	30	
1,1,2,2-Tetrachloroethane	8.69	0.50	µg/L	10.0	ND	86.9		70-130	6.78	30	
Tetrachloroethylene	9.76	1.0	µg/L	10.0	ND	97.6		70-130	0.205	30	
Toluene	10.3	1.0	µg/L	10.0	ND	103		70-130	2.31	30	UJ MSL Sample and FD
1,2,3-Trichlorobenzene	6.72	5.0	µg/L	10.0	ND	**67.2**	*	70-130	11.8	30	MS-07A
1,2,4-Trichlorobenzene	6.13	1.0	µg/L	10.0	ND	**61.3**	*	70-130	5.70	30	MS-07A, V-05
1,1,1-Trichloroethane	11.5	1.0	µg/L	10.0	0.920	106		70-130	1.90	30	UJ MSL Sample and FD
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0	ND	101		70-130	2.75	30	
Trichloroethylene	11.0	1.0	µg/L	10.0	0.860	102		70-130	1.74	30	
Trichlorofluoromethane (Freon 11)	10.5	2.0	µg/L	10.0	ND	105		70-130	4.38	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0	ND	105		70-130	1.32	30	
Vinyl Chloride	13.4	2.0	µg/L	10.0	ND	**134**	*	70-130	2.71	30	UJ MSL Sample and FD MS-15, V-20
m+p Xylene	17.8	2.0	µg/L	20.0	ND	89.2		70-130	2.49	20	
o-Xylene	8.48	1.0	µg/L	10.0	ND	84.8		70-130	1.78	30	
Xylenes (total)	26.3	1.0	µg/L	30.0	ND	87.8		0-200	1.13		
Surrogate: 1,2-Dichloroethane-d4	*25.9*		µg/L	25.0		103		70-130			
Surrogate: Toluene-d8	*26.5*		µg/L	25.0		106		70-130			
Surrogate: 4-Bromofluorobenzene	*23.0*		µg/L	25.0		92.1		70-130			

jar 11/12/2023

SVOC

NYSDEC PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk Road
Method : SW-846 8270D (or specify)
Laboratory and SDG(s): Pace **SDG#** 23I0127
Date: 11/8/2023
Reviewer: Julie Ricardi
Review Level [X] CATEGORY A

1. ☑ **Case Narrative Review and Data Package Completeness** COMMENTS
   Were problems noted? See below and attached for Cat A Review QC items noted in narrative.

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all water samples extracted within the 7 day holding time, and/or soil within 14 days? YES NO (circle one)
   Were extracts analyzed within 40 days of extraction? YES NO (circle one) 356023-MW11B extracted 17 days after expiration of the 7 day holding time; J detection; HTG – associated FD extracted within HT

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are field blanks free of contamination? YES NO NA (circle one)

4. ☑ **Laboratory Control Sample Results** (Nominal water&soil limits: Base/Neutral 50-140%, Acid 30-140%)
   Were all results within limits? YES NO (circle one) Lab Limits

5. ☑ **Matrix Spike** (Nominal water & soil limits: Base/neutral 50-140; Acid 30-140; RPD water = 20; RPD soil = 35)
   Were MS/MSDs submitted/analyzed? YES NO 356023-MW11B MS/MSD Okay

   Were all results within limits? YES NO NA (circle one)

6. ☑ **Surrogate Recovery** (Nominal water and soil limits: Base/Neutral 50-140%, Acid 30-140%)
   Were all results within limits? YES NO (circle one)
   Were any recoveries < 10%? (Reject fraction compounds if ND and recoveries are < 10%) No

7. ☑ **Field Duplicates** (RPD limits = water:50, soil:100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were RPDs within criteria. YES NO NA (circle one)
   MW11B / MW-DUP: RPD = 0; Okay

8. ☑ **Reporting Limits:**
   Were samples analyzed at a dilution? YES NO (circle one)

9. ☑ **Electronic Data Review and Edits**:
   Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in November 2023 at Mohonk Road Industrial Plant in High Falls, New York, and analyzed by Pace Analytical Services located in East Longmeadow, Massachusetts. Samples were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) methods:

- Volatile Organic Compounds (VOCs) by Method 8260D
- 1,4-Dioxane by Method 8270E-Selected Ion Monitoring (SIM)

Results were reported in the following sample delivery groups (SDGs):
- 23K1552
- 23L0120

Sample event information included in this chemistry review is presented in the following Tables:
- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:
- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.
- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = Target analyte is not detected at or above the reporting limit
UJ = Target analyte is not detected, value is estimated
J = Result is estimated
J- = Result is estimated with potential low bias

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review sample data are interpreted to meet the data quality objectives.

VOCs by Method 8260D

- The LCS/LCSD percent recoveries for chloromethane and vinyl chloride were less than project limits. Reporting limits for chloromethane and vinyl chloride in associated samples 356023-MW-15B, 356023-MW-DUP, and 356023-MW-4 were qualified estimated (UJ). Qualified results are listed in Table 3 with reason code LCSL.

- The MS and/or MSD associated with sample 356023-MW-15B had percent recoveries that were less than project limits for chloromethane, 1,2,3-trichlorobenzene, and vinyl chloride. The relative percent difference (RPD) between MS and MSD recoveries was greater than the project limit for chloromethane. Affected target analytes were not detected in sample 356023-MW-15B and reporting limits were qualified estimated (UJ). Qualified results are listed in Table 3 with reason codes MSL and/or MSRPD.

- Reporting limits are elevated for a subset of samples due to dilutions required for target compound concentrations.

1,4-Dioxane by Method 8270E-SIM

- The surrogate percent recovery of 1,4-dioxane-d8 was less than the project limit in sample 356023-MW-7R. The result for 1,4-dioxane in sample 356023-MW-7R was qualified estimated with potential low bias (J-). The qualified result is listed in Table 3 with reason code SSL.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

USEPA, 2010. "Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D"; HW-22, Revision 5; USEPA Region II Hazardous Waste Support Branch; December 2010.

Data Validator: Gabrielle Davis



Date: April 9, 2024

Reviewed by: Julie Ricardi



Date: April 15, 2024

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANLYTICAL METHODS
CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

					Lab ID	PACE	PACE
					Method Class	VOCs	1,4-Dioxane
					Analysis Method	SW8260	SW8270
					Fraction	N	N
Lab SDG	**Media**	**Location**	**Field Sample ID**	**Sample Date**	**Qc Code**	Parameters	Parameters
23K1552	GW	ERT-1	356023-ERT-1	11/8/2023	FS	51	1
23K1552	GW	ERT-4	356023-ERT-4	11/8/2023	FS	51	1
23K1552	GW	MW-11B	356023-MW-DUP	11/8/2023	FD		1
23K1552	GW	MW-11B	356023-MW-11B	11/8/2023	FS	51	1
23K1552	GW	MW-12B	356023-MW-12B	11/8/2023	FS	51	1
23K1552	GW	MW-15B	356023-MW-15B	11/8/2023	FS		1
23L0120	GW	MW-15B	356023-MW-15B	11/30/2023	FS	51	
23K1552	GW	MW-4	356023-MW-4	11/8/2023	FS		1
23L0120	GW	MW-4	356023-MW-DUP	11/30/2023	FD	51	
23L0120	GW	MW-4	356023-MW-4	11/30/2023	FS	51	
23K1552	GW	MW-5B	356023-MW-5B	11/9/2023	FS	51	1
23K1552	GW	MW-5R	356023-MW-5R	11/8/2023	FS	51	1
23K1552	GW	MW-7R	356023-MW-7R	11/8/2023	FS	51	1
23K1552	BW	QC	Trip Blank	11/8/2023	TB	51	
23L0120	BW	QC	TRIP BLANK	11/30/2023	TB	51	

Created by: KMS 1/10/2024
Checked by: GTD 4/1/2024

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

			Lab SDG	23K1552		23K1552		23K1552		23K1552	
			Location	ERT-1		ERT-4		MW-11B		MW-11B	
			Sample Date	11/8/2023		11/8/2023		11/8/2023		11/8/2023	
			Sample ID	356023-ERT-1		356023-ERT-4		356023-MW-DUP		356023-MW-11B	
			QC Code	FS		FS		FD		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	N	ug/L	33		1,400				0.76	J
SW8260	1,1,2,2-Tetrachloroethane	N	ug/L	0.5	U	5	U			0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	N	ug/L	1	U	10	U			1	U
SW8260	1,1,2-Trichloroethane	N	ug/L	1	U	10	U			1	U
SW8260	1,1-Dichloroethane	N	ug/L	6.7		50				2.9	
SW8260	1,1-Dichloroethene	N	ug/L	14		160				4.5	
SW8260	1,2,3-Trichlorobenzene	N	ug/L	5	U	50	U			5	U
SW8260	1,2,4-Trichlorobenzene	N	ug/L	1	U	10	U			1	U
SW8260	1,2-Dibromo-3-chloropropane	N	ug/L	5	U	50	U			5	U
SW8260	1,2-Dibromoethane	N	ug/L	0.5	U	5	U			0.5	U
SW8260	1,2-Dichlorobenzene	N	ug/L	1	U	10	U			1	U
SW8260	1,2-Dichloroethane	N	ug/L	1	U	10	U			1	U
SW8260	1,2-Dichloropropane	N	ug/L	1	U	10	U			1	U
SW8260	1,3-Dichlorobenzene	N	ug/L	1	U	10	U			1	U
SW8260	1,4-Dichlorobenzene	N	ug/L	1	U	10	U			1	U
SW8260	1,4-Dioxane	N	ug/L	50	U	500	U			50	U
SW8260	2-Butanone	N	ug/L	20	U	19	J			20	U
SW8260	2-Hexanone	N	ug/L	10	U	100	U			10	U
SW8260	4-Methyl-2-pentanone	N	ug/L	10	U	100	U			10	U
SW8260	Acetic acid, methyl ester	N	ug/L	1	U	10	U			1	U
SW8260	Acetone	N	ug/L	50	U	500	U			50	U
SW8260	Benzene	N	ug/L	1	U	10	U			1	U
SW8260	Bromochloromethane	N	ug/L	1	U	10	U			1	U
SW8260	Bromodichloromethane	N	ug/L	0.5	U	5	U			0.5	U
SW8260	Bromoform	N	ug/L	1	U	10	U			1	U
SW8260	Bromomethane	N	ug/L	2	U	20	U			2	U
SW8260	Carbon disulfide	N	ug/L	5	U	50	U			5	U
SW8260	Carbon tetrachloride	N	ug/L	5	U	50	U			5	U
SW8260	Chlorobenzene	N	ug/L	1	U	10	U			1	U
SW8260	Chloroethane	N	ug/L	2	U	20	U			2	U
SW8260	Chloroform	N	ug/L	0.27	J	20	U			2	U
SW8260	Chloromethane	N	ug/L	2	U	20	U			2	U
SW8260	cis-1,2-Dichloroethene	N	ug/L	0.31	J	5.3	J			1	U
SW8260	cis-1,3-Dichloropropene	N	ug/L	0.5	U	5	U			0.5	U
SW8260	Cyclohexane	N	ug/L	5	U	50	U			5	U
SW8260	Dibromochloromethane	N	ug/L	0.5	U	5	U			0.5	U
SW8260	Dichlorodifluoromethane	N	ug/L	2	U	20	U			2	U
SW8260	Ethylbenzene	N	ug/L	1	U	10	U			1	U
SW8260	Isopropylbenzene	N	ug/L	1	U	10	U			1	U
SW8260	Methyl cyclohexane	N	ug/L	1	U	10	U			1	U
SW8260	Methyl Tertbutyl Ether	N	ug/L	1	U	10	U			1	U
SW8260	Methylene chloride	N	ug/L	5	U	50	U			5	U
SW8260	Styrene	N	ug/L	1	U	10	U			1	U
SW8260	Tetrachloroethene	N	ug/L	1	U	10	U			0.54	J
SW8260	Toluene	N	ug/L	1	U	10	U			1	U
SW8260	trans-1,2-Dichloroethene	N	ug/L	1	U	10	U			1	U
SW8260	trans-1,3-Dichloropropene	N	ug/L	0.5	U	5	U			0.5	U
SW8260	Trichloroethene	N	ug/L	4.3		120				0.78	J
SW8260	Trichlorofluoromethane	N	ug/L	2	U	20	U			2	U
SW8260	Vinyl chloride	N	ug/L	2	U	20	U			2	U
SW8260	Xylenes, Total	N	ug/L	1	U	10	U			1	U
SW8270	1,4-Dioxane	N	ug/L	4.9		5.6		3		2.8	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

			Lab SDG	23K1552		23K1552		23L0120		23K1552	
			Location	MW-12B		MW-15B		MW-15B		MW-4	
			Sample Date	11/8/2023		11/8/2023		11/30/2023		11/8/2023	
			Sample ID	356023-MW-12B		356023-MW-15B		356023-MW-15B		356023-MW-4	
			QC Code	FS		FS		FS		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	N	ug/L	1.8				11			
SW8260	1,1,2,2-Tetrachloroethane	N	ug/L	0.5	U			0.5	U		
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	N	ug/L	1	U			1	U		
SW8260	1,1,2-Trichloroethane	N	ug/L	1	U			1	U		
SW8260	1,1-Dichloroethane	N	ug/L	1.4				6.2			
SW8260	1,1-Dichloroethene	N	ug/L	1.9				11			
SW8260	1,2,3-Trichlorobenzene	N	ug/L	5	U			5	UJ		
SW8260	1,2,4-Trichlorobenzene	N	ug/L	1	U			1	U		
SW8260	1,2-Dibromo-3-chloropropane	N	ug/L	5	U			5	U		
SW8260	1,2-Dibromoethane	N	ug/L	0.5	U			0.5	U		
SW8260	1,2-Dichlorobenzene	N	ug/L	1	U			1	U		
SW8260	1,2-Dichloroethane	N	ug/L	1	U			1	U		
SW8260	1,2-Dichloropropane	N	ug/L	1	U			1	U		
SW8260	1,3-Dichlorobenzene	N	ug/L	1	U			1	U		
SW8260	1,4-Dichlorobenzene	N	ug/L	1	U			1	U		
SW8260	1,4-Dioxane	N	ug/L	50	U			50	U		
SW8260	2-Butanone	N	ug/L	20	U			20	U		
SW8260	2-Hexanone	N	ug/L	10	U			10	U		
SW8260	4-Methyl-2-pentanone	N	ug/L	10	U			10	U		
SW8260	Acetic acid, methyl ester	N	ug/L	1	U			1	U		
SW8260	Acetone	N	ug/L	50	U			50	U		
SW8260	Benzene	N	ug/L	1	U			1	U		
SW8260	Bromochloromethane	N	ug/L	1	U			1	U		
SW8260	Bromodichloromethane	N	ug/L	0.5	U			0.5	U		
SW8260	Bromoform	N	ug/L	1	U			1	U		
SW8260	Bromomethane	N	ug/L	2	U			2	U		
SW8260	Carbon disulfide	N	ug/L	5	U			5	U		
SW8260	Carbon tetrachloride	N	ug/L	5	U			5	U		
SW8260	Chlorobenzene	N	ug/L	1	U			1	U		
SW8260	Chloroethane	N	ug/L	2	U			2	U		
SW8260	Chloroform	N	ug/L	2	U			2	U		
SW8260	Chloromethane	N	ug/L	2	U			2	UJ		
SW8260	cis-1,2-Dichloroethene	N	ug/L	1	U			0.14	J		
SW8260	cis-1,3-Dichloropropene	N	ug/L	0.5	U			0.5	U		
SW8260	Cyclohexane	N	ug/L	5	U			5	U		
SW8260	Dibromochloromethane	N	ug/L	0.5	U			0.5	U		
SW8260	Dichlorodifluoromethane	N	ug/L	2	U			2	U		
SW8260	Ethylbenzene	N	ug/L	1	U			1	U		
SW8260	Isopropylbenzene	N	ug/L	1	U			1	U		
SW8260	Methyl cyclohexane	N	ug/L	1	U			1	U		
SW8260	Methyl Tertbutyl Ether	N	ug/L	1	U			1	U		
SW8260	Methylene chloride	N	ug/L	5	U			5	U		
SW8260	Styrene	N	ug/L	1	U			1	U		
SW8260	Tetrachloroethene	N	ug/L	1	U			1	U		
SW8260	Toluene	N	ug/L	1	U			1	U		
SW8260	trans-1,2-Dichloroethene	N	ug/L	1	U			1	U		
SW8260	trans-1,3-Dichloropropene	N	ug/L	0.5	U			0.5	U		
SW8260	Trichloroethene	N	ug/L	0.65	J			1.2			
SW8260	Trichlorofluoromethane	N	ug/L	2	U			2	U		
SW8260	Vinyl chloride	N	ug/L	2	U			2	UJ		
SW8260	Xylenes, Total	N	ug/L	1	U			1	U		
SW8270	1,4-Dioxane	N	ug/L	0.63		4.1				2.5	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

			Lab SDG	23L0120		23L0120		23K1552		23K1552	
			Location	MW-4		MW-4		MW-5B		MW-5R	
			Sample Date	11/30/2023		11/30/2023		11/9/2023		11/8/2023	
			Sample ID	356023-MW-DUP		356023-MW-4		356023-MW-5B		356023-MW-5R	
			QC Code	FD		FS		FS		FS	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	N	ug/L	390		380		660		24	
SW8260	1,1,2,2-Tetrachloroethane	N	ug/L	2	U	2	U	2.5	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	N	ug/L	4	U	4	U	5	U	1	U
SW8260	1,1,2-Trichloroethane	N	ug/L	4	U	4	U	1.4	J	1	U
SW8260	1,1-Dichloroethane	N	ug/L	19		19		13		2.2	
SW8260	1,1-Dichloroethene	N	ug/L	49		47		120		8.4	
SW8260	1,2,3-Trichlorobenzene	N	ug/L	20	U	20	U	25	U	5	U
SW8260	1,2,4-Trichlorobenzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	N	ug/L	20	U	20	U	25	U	5	U
SW8260	1,2-Dibromoethane	N	ug/L	2	U	2	U	2.5	U	0.5	U
SW8260	1,2-Dichlorobenzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	1,2-Dichloroethane	N	ug/L	4	U	4	U	5	U	1	U
SW8260	1,2-Dichloropropane	N	ug/L	4	U	4	U	5	U	1	U
SW8260	1,3-Dichlorobenzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	1,4-Dichlorobenzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	1,4-Dioxane	N	ug/L	200	U	200	U	250	U	50	U
SW8260	2-Butanone	N	ug/L	12	J	8.6	J	100	U	20	U
SW8260	2-Hexanone	N	ug/L	40	U	40	U	50	U	10	U
SW8260	4-Methyl-2-pentanone	N	ug/L	40	U	40	U	50	U	10	U
SW8260	Acetic acid, methyl ester	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Acetone	N	ug/L	11	J	200	U	250	U	50	U
SW8260	Benzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Bromochloromethane	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Bromodichloromethane	N	ug/L	2	U	2	U	2.5	U	0.5	U
SW8260	Bromoform	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Bromomethane	N	ug/L	8	U	8	U	10	U	2	U
SW8260	Carbon disulfide	N	ug/L	20	U	20	U	25	U	5	U
SW8260	Carbon tetrachloride	N	ug/L	20	U	20	U	0.85	J	5	U
SW8260	Chlorobenzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Chloroethane	N	ug/L	8	U	8	U	10	U	2	U
SW8260	Chloroform	N	ug/L	8	U	8	U	10	U	2	U
SW8260	Chloromethane	N	ug/L	8	UJ	8	UJ	10	U	2	U
SW8260	cis-1,2-Dichloroethene	N	ug/L	11		11		5	U	1	U
SW8260	cis-1,3-Dichloropropene	N	ug/L	2	U	2	U	2.5	U	0.5	U
SW8260	Cyclohexane	N	ug/L	20	U	20	U	25	U	5	U
SW8260	Dibromochloromethane	N	ug/L	2	U	2	U	2.5	U	0.5	U
SW8260	Dichlorodifluoromethane	N	ug/L	8	U	8	U	10	U	2	U
SW8260	Ethylbenzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Isopropylbenzene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Methyl cyclohexane	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Methyl Tertbutyl Ether	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Methylene chloride	N	ug/L	20	U	20	U	25	U	5	U
SW8260	Styrene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Tetrachloroethene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	Toluene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	trans-1,2-Dichloroethene	N	ug/L	4	U	4	U	5	U	1	U
SW8260	trans-1,3-Dichloropropene	N	ug/L	2	U	2	U	2.5	U	0.5	U
SW8260	Trichloroethene	N	ug/L	230		220		39		3.6	
SW8260	Trichlorofluoromethane	N	ug/L	8	U	8	U	10	U	2	U
SW8260	Vinyl chloride	N	ug/L	8	UJ	8	UJ	10	U	2	U
SW8260	Xylenes, Total	N	ug/L	4	U	4	U	5	U	1	U
SW8270	1,4-Dioxane	N	ug/L					6.6		2.2	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

			Lab SDG	23K1552		23K1552		23L0120	
			Location	MW-7R		QC		QC	
			Sample Date	11/8/2023		11/8/2023		11/30/2023	
			Sample ID	356023-MW-7R		Trip Blank		TRIP BLANK	
			QC Code	FS		TB		TB	
Method	**Parameter**	**Fraction**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260	1,1,1-Trichloroethane	N	ug/L	53		1	U	1	U
SW8260	1,1,2,2-Tetrachloroethane	N	ug/L	0.5	U	0.5	U	0.5	U
SW8260	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	N	ug/L	1	U	1	U	1	U
SW8260	1,1,2-Trichloroethane	N	ug/L	1	U	1	U	1	U
SW8260	1,1-Dichloroethane	N	ug/L	32		1	U	1	U
SW8260	1,1-Dichloroethene	N	ug/L	9.4		1	U	1	U
SW8260	1,2,3-Trichlorobenzene	N	ug/L	5	U	5	U	5	U
SW8260	1,2,4-Trichlorobenzene	N	ug/L	1	U	1	U	1	U
SW8260	1,2-Dibromo-3-chloropropane	N	ug/L	5	U	5	U	5	U
SW8260	1,2-Dibromoethane	N	ug/L	0.5	U	0.5	U	0.5	U
SW8260	1,2-Dichlorobenzene	N	ug/L	1	U	1	U	1	U
SW8260	1,2-Dichloroethane	N	ug/L	1	U	1	U	1	U
SW8260	1,2-Dichloropropane	N	ug/L	1	U	1	U	1	U
SW8260	1,3-Dichlorobenzene	N	ug/L	1	U	1	U	1	U
SW8260	1,4-Dichlorobenzene	N	ug/L	1	U	1	U	1	U
SW8260	1,4-Dioxane	N	ug/L	50	U	50	U	50	U
SW8260	2-Butanone	N	ug/L	20	U	20	U	20	U
SW8260	2-Hexanone	N	ug/L	10	U	10	U	10	U
SW8260	4-Methyl-2-pentanone	N	ug/L	10	U	10	U	10	U
SW8260	Acetic acid, methyl ester	N	ug/L	1	U	1	U	1	U
SW8260	Acetone	N	ug/L	50	U	50	U	50	U
SW8260	Benzene	N	ug/L	1	U	1	U	1	U
SW8260	Bromochloromethane	N	ug/L	1	U	1	U	1	U
SW8260	Bromodichloromethane	N	ug/L	0.5	U	0.5	U	0.5	U
SW8260	Bromoform	N	ug/L	1	U	1	U	1	U
SW8260	Bromomethane	N	ug/L	2	U	2	U	2	U
SW8260	Carbon disulfide	N	ug/L	5	U	5	U	5	U
SW8260	Carbon tetrachloride	N	ug/L	5	U	5	U	5	U
SW8260	Chlorobenzene	N	ug/L	1	U	1	U	1	U
SW8260	Chloroethane	N	ug/L	2	U	2	U	2	U
SW8260	Chloroform	N	ug/L	0.25	J	2	U	2	U
SW8260	Chloromethane	N	ug/L	2	U	2	U	2	U
SW8260	cis-1,2-Dichloroethene	N	ug/L	1		1	U	1	U
SW8260	cis-1,3-Dichloropropene	N	ug/L	0.5	U	0.5	U	0.5	U
SW8260	Cyclohexane	N	ug/L	5	U	5	U	5	U
SW8260	Dibromochloromethane	N	ug/L	0.5	U	0.5	U	0.5	U
SW8260	Dichlorodifluoromethane	N	ug/L	2	U	2	U	2	U
SW8260	Ethylbenzene	N	ug/L	1	U	1	U	1	U
SW8260	Isopropylbenzene	N	ug/L	1	U	1	U	1	U
SW8260	Methyl cyclohexane	N	ug/L	1	U	1	U	1	U
SW8260	Methyl Tertbutyl Ether	N	ug/L	1	U	1	U	1	U
SW8260	Methylene chloride	N	ug/L	5	U	5	U	5	U
SW8260	Styrene	N	ug/L	1	U	1	U	1	U
SW8260	Tetrachloroethene	N	ug/L	1	U	1	U	1	U
SW8260	Toluene	N	ug/L	1	U	1	U	1	U
SW8260	trans-1,2-Dichloroethene	N	ug/L	1	U	1	U	1	U
SW8260	trans-1,3-Dichloropropene	N	ug/L	0.5	U	0.5	U	0.5	U
SW8260	Trichloroethene	N	ug/L	0.88	J	1	U	1	U
SW8260	Trichlorofluoromethane	N	ug/L	2	U	2	U	2	U
SW8260	Vinyl chloride	N	ug/L	2	U	2	U	2	U
SW8260	Xylenes, Total	N	ug/L	1	U	1	U	1	U
SW8270	1,4-Dioxane	N	ug/L	2.1	J-				

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

Lab SDG	Location	Field Sample ID	Lab Sample ID	Method	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
23K1552	MW-7R	356023-MW-7R	23K1552-09	SW8270	N	1,4-Dioxane	2.1		2.1	J-	SSL	ug/L
23L0120	MW-15B	356023-MW-15B	23L0120-01	SW8260	N	Chloromethane	2	U	2	UJ	LCSL, MSL, MSRPD	ug/L
23L0120	MW-15B	356023-MW-15B	23L0120-01	SW8260	N	Vinyl chloride	2	U	2	UJ	LCSL, MSL	ug/L
23L0120	MW-15B	356023-MW-15B	23L0120-01	SW8260	N	1,2,3-Trichlorobenzene	5	U	5	UJ	MSL	ug/L
23L0120	MW-4	356023-MW-4	23L0120-02	SW8260	N	Chloromethane	8	U	8	UJ	LCSL	ug/L
23L0120	MW-4	356023-MW-4	23L0120-02	SW8260	N	Vinyl chloride	8	U	8	UJ	LCSL	ug/L
23L0120	MW-4	356023-MW-DUP	23L0120-03	SW8260	N	Chloromethane	8	U	8	UJ	LCSL	ug/L
23L0120	MW-4	356023-MW-DUP	23L0120-03	SW8260	N	Vinyl chloride	8	U	8	UJ	LCSL	ug/L

Created by: KMS 4/9/2024
Checked by: GTD 4/9/2024

CATEGORY A REVIEW REPORT
NOVEMBER 2023 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk November 2023
Method : SW-846 8260C (or specify)
Laboratory: Pace Con-Test **SDG(s):** 23K1552 and 23L0120
Date: 4/1/2024
Reviewer: Gabrielle Davis
Review Level [X] CATEGORY A

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? Yes, see attached

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all samples properly preserved and analyzed within the 14 day holding time? (7 day holding time for unpreserved samples) YES NO (circle one) (See Table 1, USEPA Region 2 SOP HW-24, Rev 4, Sep 2014)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ **Matrix Spike** – Use nominal limits for recovery (water and soil 70-130%) and relative percent difference (RPD) (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within QC limits? YES NO NA (circle one) See attached - subsets UJ, MSL and/or MSRPD
   Were any recoveries <20%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

5. ☑ **Laboratory Control Sample Results** – Use nominal limits for recovery (water and soil 70-130%) and RPD (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one) See attached - subset UJ, LCSL

6. ☑ **Surrogate Recovery** – Use nominal limits for recovery (water 80-120%, soil 70-130%) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)
   Were any results <10%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

7. ☑ **Field Duplicates** - Region 2 limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were all results within Region 2 Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)

   NDs have elevated RLs

9. ☑ **Electronic Data Review and Edits**
   Does the EDD match the Form Is? YES NO (circle one) GTD 4/8/2024

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

GTD 4/8/2024

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260D

Qualifications:

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

Okay - NDs have elevated RLs

23K1552-02[356023-MW-5B], 23K1552-06[356023-ERT-4]

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B357980-BS1, B357980-BSD1, S096354-CCV1

Outside of scope - no quals

SW-846 8270E

Qualifications:

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:

23K1552-09RE1[356023-MW-7R]

RE refuse flagged

S-09

Sample was re-extracted outside of holding time since surrogate standard recovery was outside of control limits in initial analysis. Initial data is reported since confirmation analysis also had unacceptable surrogate, confirming matrix interference.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8

23K1552-09[356023-MW-7R]

Okay - RE refuse flagged, original result reported

GTD 4/8/2024

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260D

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloromethane
23L0120-01[356023-MW-15B], B359756-MS1, B359756-MSD1

Vinyl Chloride
23L0120-01[356023-MW-15B], B359756-MS1, B359756-MSD1

See attached for MS review

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
B359756-MS1

See attached for MS review

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

Okay - NDs have elevated RLs

23L0120-02[356023-MW-4], 23L0120-03[356023-MW-DUP]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene
23L0120-01[356023-MW-15B], 23L0120-02[356023-MW-4], 23L0120-03[356023-MW-DUP], 23L0120-04[TRIP BLANK], B359756-BLK1, B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

Acetone
23L0120-01[356023-MW-15B], 23L0120-02[356023-MW-4], 23L0120-03[356023-MW-DUP], 23L0120-04[TRIP BLANK], B359756-BLK1, B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

Outside of scope - no quals

Chloromethane
23L0120-01[356023-MW-15B], 23L0120-02[356023-MW-4], 23L0120-03[356023-MW-DUP], 23L0120-04[TRIP BLANK], B359756-BLK1, B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

Vinyl Chloride
23L0120-01[356023-MW-15B], 23L0120-02[356023-MW-4], 23L0120-03[356023-MW-DUP], 23L0120-04[TRIP BLANK], B359756-BLK1, B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
23L0120-01[356023-MW-15B], 23L0120-02[356023-MW-4], 23L0120-03[356023-MW-DUP], 23L0120-04[TRIP BLANK], B359756-BLK1, B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

Outside of scope - no quals

Chloromethane
23L0120-01[356023-MW-15B], 23L0120-02[356023-MW-4], 23L0120-03[356023-MW-DUP], 23L0120-04[TRIP BLANK], B359756-BLK1, B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Acetone
B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

Outside of scope - no quals

Carbon Disulfide
B359756-BS1, B359756-BSD1, B359756-MS1, B359756-MSD1, S097325-CCV1

GTD 4/8/2024

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B357980 - SW-846 5030B											
Blank (B357980-BLK1)				Prepared: 11/13/23 Analyzed: 11/14/23							
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.0		96.5	70-130				
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		97.0	70-130				
Surrogate: 4-Bromofluorobenzene	*21.9*		µg/L	25.0		87.7	70-130				
LCS (B357980-BS1)				Prepared: 11/13/23 Analyzed: 11/14/23							
Acetone	90.7	50	µg/L	100		90.7	70-160				†
Benzene	12.3	1.0	µg/L	10.0		123	70-130				
Bromochloromethane	12.2	1.0	µg/L	10.0		122	70-130				
Bromodichloromethane	10.7	0.50	µg/L	10.0		107	70-130				
Bromoform	8.14	1.0	µg/L	10.0		81.4	70-130				
Bromomethane	14.5	2.0	µg/L	10.0		145	40-160			V-20	†
2-Butanone (MEK)	101	20	µg/L	100		101	40-160				†
Carbon Disulfide	118	5.0	µg/L	100		118	70-130				
Carbon Tetrachloride	10.3	5.0	µg/L	10.0		103	70-130				
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130				
Chlorodibromomethane	9.83	0.50	µg/L	10.0		98.3	70-130				
Chloroethane	11.5	2.0	µg/L	10.0		115	70-130				
Chloroform	11.3	2.0	µg/L	10.0		113	70-130				
Chloromethane	10.6	2.0	µg/L	10.0		106	40-160				†
Cyclohexane	10.9	5.0	µg/L	10.0		109	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.07	5.0	µg/L	10.0		80.7	70-130				
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130				
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130				
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130				
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130				
Dichlorodifluoromethane (Freon 12)	12.2	2.0	µg/L	10.0		122	40-160				†
1,1-Dichloroethane	11.8	1.0	µg/L	10.0		118	70-130				
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130				
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130				
cis-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130				
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
1,2-Dichloropropane	11.4	1.0	µg/L	10.0		114	70-130				
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130				
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130				
1,4-Dioxane	86.2	50	µg/L	100		86.2	40-130				†
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130				
2-Hexanone (MBK)	87.0	10	µg/L	100		87.0	70-160				†
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0		101	70-130				
Methyl Acetate	10.9	1.0	µg/L	10.0		109	70-130				
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106	70-130				
Methyl Cyclohexane	11.3	1.0	µg/L	10.0		113	70-130				
Methylene Chloride	10.8	5.0	µg/L	10.0		108	70-130				
4-Methyl-2-pentanone (MIBK)	88.6	10	µg/L	100		88.6	70-160				†
Styrene	10.7	1.0	µg/L	10.0		107	70-130				
1,1,2,2-Tetrachloroethane	9.66	0.50	µg/L	10.0		96.6	70-130				
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130				
Toluene	11.3	1.0	µg/L	10.0		113	70-130				
1,2,3-Trichlorobenzene	9.37	5.0	µg/L	10.0		93.7	70-130				
1,2,4-Trichlorobenzene	9.06	1.0	µg/L	10.0		90.6	70-130				
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130				

70-130

High bias, samples ND - no quals

GTD 4/8/2024

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B357980 - SW-846 5030B											
LCS (B357980-BS1)				Prepared: 11/13/23 Analyzed: 11/14/23							
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130				
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130				
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.3	1.0	µg/L	10.0		113	70-130				
Vinyl Chloride	12.7	2.0	µg/L	10.0		127	40-160				†
m+p Xylene	21.3	2.0	µg/L	20.0		107	70-130				
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130				
Xylenes (total)	31.4	1.0	µg/L	30.0		105	0-200				
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.0		95.9	70-130				
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104	70-130				
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		94.1	70-130				
LCS Dup (B357980-BSD1)				Prepared: 11/13/23 Analyzed: 11/14/23			70-130				
Acetone	87.4	50	µg/L	100		87.4	70-160	3.72	25		†
Benzene	12.5	1.0	µg/L	10.0		125	70-130	1.77	25		
Bromochloromethane	12.2	1.0	µg/L	10.0		122	70-130	0.409	25		
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130	2.95	25		
Bromoform	8.33	1.0	µg/L	10.0		83.3	70-130	2.31	25		
Bromomethane	14.4	2.0	µg/L	10.0		144	40-160	0.0692	25	V-20	†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160	1.00	25		†
Carbon Disulfide	116	5.0	µg/L	100		116	70-130	0.940	25		
Carbon Tetrachloride	10.6	5.0	µg/L	10.0		106	70-130	3.07	25		
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	2.40	25		
Chlorodibromomethane	9.77	0.50	µg/L	10.0		97.7	70-130	0.612	25		
Chloroethane	11.2	2.0	µg/L	10.0		112	70-130	2.46	25		
Chloroform	11.4	2.0	µg/L	10.0		114	70-130	0.616	25		
Chloromethane	10.4	2.0	µg/L	10.0		104	40-160	0.952	25		†
Cyclohexane	11.6	5.0	µg/L	10.0		116	70-130	6.38	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.63	5.0	µg/L	10.0		86.3	70-130	6.71	25		
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107	70-130	1.04	25		
1,2-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	3.21	25		
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	1.06	25		
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	1.38	25		
Dichlorodifluoromethane (Freon 12)	12.0	2.0	µg/L	10.0		120	40-160	1.16	25		†
1,1-Dichloroethane	11.5	1.0	µg/L	10.0		115	70-130	2.57	25		
1,2-Dichloroethane	9.96	1.0	µg/L	10.0		99.6	70-130	1.99	25		
1,1-Dichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	2.45	25		
cis-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	1.34	25		
trans-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	2.04	25		
1,2-Dichloropropane	11.6	1.0	µg/L	10.0		116	70-130	1.04	25		
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113	70-130	0.710	25		
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130	1.20	25		
1,4-Dioxane	82.4	50	µg/L	100		82.4	40-130	4.39	50		† ‡
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	1.84	25		
2-Hexanone (MBK)	89.4	10	µg/L	100		89.4	70-160	2.83	25		†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105	70-130	3.39	25		
Methyl Acetate	10.9	1.0	µg/L	10.0		109	70-130	0.458	25		
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130	2.09	25		
Methyl Cyclohexane	11.4	1.0	µg/L	10.0		114	70-130	0.971	25		
Methylene Chloride	10.4	5.0	µg/L	10.0		104	70-130	4.25	25		
4-Methyl-2-pentanone (MIBK)	90.2	10	µg/L	100		90.2	70-160	1.79	25		†
Styrene	10.8	1.0	µg/L	10.0		108	70-130	1.21	25		

High bias, samples ND - no quals

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B359756 - SW-846 5030B											
Blank (B359756-BLK1)				Prepared & Analyzed: 12/05/23							
o-Xylene	ND	1.0	µg/L								
Xylenes (total)	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*22.7*		µg/L	25.0		90.8	70-130				
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102	70-130				
Surrogate: 4-Bromofluorobenzene	*27.0*		µg/L	25.0		108	70-130				
LCS (B359756-BS1)				Prepared & Analyzed: 12/05/23			70-130				
Acetone	74.5	50	µg/L	100		74.5	70-160			V-05, V-35	†
Benzene	10.4	1.0	µg/L	10.0		104	70-130				
Bromochloromethane	10.2	1.0	µg/L	10.0		102	70-130				
Bromodichloromethane	10.2	0.50	µg/L	10.0		102	70-130				
Bromoform	9.07	1.0	µg/L	10.0		90.7	70-130				
Bromomethane	10.1	2.0	µg/L	10.0		101	40-160			V-34	†
2-Butanone (MEK)	94.0	20	µg/L	100		94.0	40-160				†
Carbon Disulfide	92.8	5.0	µg/L	100		92.8	70-130			V-35	
Carbon Tetrachloride	10.9	5.0	µg/L	10.0		109	70-130				
Chlorobenzene	9.95	1.0	µg/L	10.0		99.5	70-130				
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103	70-130				
Chloroethane	11.0	2.0	µg/L	10.0		110	70-130				
Chloroform	9.58	2.0	µg/L	10.0		95.8	70-130				
Chloromethane UJ, LCSL	5.49	2.0	µg/L	10.0		54.9	40-160			V-05, V-34	†
Cyclohexane	10.2	5.0	µg/L	10.0		102	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.02	5.0	µg/L	10.0		80.2	70-130				
1,2-Dibromoethane (EDB)	10.9	0.50	µg/L	10.0		109	70-130				
1,2-Dichlorobenzene	9.22	1.0	µg/L	10.0		92.2	70-130				
1,3-Dichlorobenzene	9.30	1.0	µg/L	10.0		93.0	70-130				
1,4-Dichlorobenzene	9.21	1.0	µg/L	10.0		92.1	70-130				
Dichlorodifluoromethane (Freon 12)	8.73	2.0	µg/L	10.0		87.3	40-160				†
1,1-Dichloroethane	9.93	1.0	µg/L	10.0		99.3	70-130				
1,2-Dichloroethane	9.15	1.0	µg/L	10.0		91.5	70-130				
1,1-Dichloroethylene	7.79	1.0	µg/L	10.0		77.9	70-130			V-05	
cis-1,2-Dichloroethylene	9.74	1.0	µg/L	10.0		97.4	70-130				
trans-1,2-Dichloroethylene	9.28	1.0	µg/L	10.0		92.8	70-130				
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130				
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130				
trans-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130				
1,4-Dioxane	106	50	µg/L	100		106	40-130				†
Ethylbenzene	9.74	1.0	µg/L	10.0		97.4	70-130				
2-Hexanone (MBK)	99.9	10	µg/L	100		99.9	70-160				†
Isopropylbenzene (Cumene)	9.93	1.0	µg/L	10.0		99.3	70-130				
Methyl Acetate	10.5	1.0	µg/L	10.0		105	70-130				
Methyl tert-Butyl Ether (MTBE)	11.4	1.0	µg/L	10.0		114	70-130				
Methyl Cyclohexane	10.1	1.0	µg/L	10.0		101	70-130				
Methylene Chloride	8.10	5.0	µg/L	10.0		81.0	70-130				
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160				†
Styrene	10.2	1.0	µg/L	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	9.43	0.50	µg/L	10.0		94.3	70-130				
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130				
Toluene	10.1	1.0	µg/L	10.0		101	70-130				
1,2,3-Trichlorobenzene	8.72	5.0	µg/L	10.0		87.2	70-130				
1,2,4-Trichlorobenzene	8.61	1.0	µg/L	10.0		86.1	70-130				
1,1,1-Trichloroethane	9.66	1.0	µg/L	10.0		96.6	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B359756 - SW-846 5030B							70-130				
LCS (B359756-BS1)				Prepared & Analyzed: 12/05/23							
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130				
Trichloroethylene	9.85	1.0	µg/L	10.0		98.5	70-130				
Trichlorofluoromethane (Freon 11)	8.42	2.0	µg/L	10.0		84.2	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.82	1.0	µg/L	10.0		88.2	70-130				
Vinyl Chloride UJ, LCSL	5.98	2.0	µg/L	10.0		59.8	40-160			V-05	†
m+p Xylene	19.6	2.0	µg/L	20.0		97.8	70-130				
o-Xylene	10.1	1.0	µg/L	10.0		101	70-130				
Xylenes (total)	29.6	1.0	µg/L	30.0		98.8	0-200				
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.0		93.6	70-130				
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104	70-130				
Surrogate: 4-Bromofluorobenzene	*27.1*		µg/L	25.0		109	70-130				
LCS Dup (B359756-BSD1)				Prepared & Analyzed: 12/05/23			70-130				
Acetone	76.3	50	µg/L	100		76.3	70-160	2.43	25	V-05, V-35	†
Benzene	10.3	1.0	µg/L	10.0		103	70-130	0.581	25		
Bromochloromethane	10.4	1.0	µg/L	10.0		104	70-130	1.36	25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101	70-130	0.492	25		
Bromoform	9.46	1.0	µg/L	10.0		94.6	70-130	4.21	25		
Bromomethane	10.4	2.0	µg/L	10.0		104	40-160	2.44	25	V-34	†
2-Butanone (MEK)	95.6	20	µg/L	100		95.6	40-160	1.70	25		†
Carbon Disulfide	93.2	5.0	µg/L	100		93.2	70-130	0.430	25	V-35	
Carbon Tetrachloride	11.3	5.0	µg/L	10.0		113	70-130	3.15	25		
Chlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.40	25		
Chlorodibromomethane	10.2	0.50	µg/L	10.0		102	70-130	1.07	25		
Chloroethane	11.2	2.0	µg/L	10.0		112	70-130	1.08	25		
Chloroform	9.75	2.0	µg/L	10.0		97.5	70-130	1.76	25		
Chloromethane UJ, LCSL	5.61	2.0	µg/L	10.0		56.1	40-160	2.16	25	V-34, V-05	†
Cyclohexane	10.4	5.0	µg/L	10.0		104	70-130	2.23	25		
1,2-Dibromo-3-chloropropane (DBCP)	8.33	5.0	µg/L	10.0		83.3	70-130	3.79	25		
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130	2.04	25		
1,2-Dichlorobenzene	9.15	1.0	µg/L	10.0		91.5	70-130	0.762	25		
1,3-Dichlorobenzene	9.32	1.0	µg/L	10.0		93.2	70-130	0.215	25		
1,4-Dichlorobenzene	9.07	1.0	µg/L	10.0		90.7	70-130	1.53	25		
Dichlorodifluoromethane (Freon 12)	8.63	2.0	µg/L	10.0		86.3	40-160	1.15	25		†
1,1-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130	1.50	25		
1,2-Dichloroethane	9.14	1.0	µg/L	10.0		91.4	70-130	0.109	25		
1,1-Dichloroethylene	7.96	1.0	µg/L	10.0		79.6	70-130	2.16	25	V-05	
cis-1,2-Dichloroethylene	9.86	1.0	µg/L	10.0		98.6	70-130	1.22	25		
trans-1,2-Dichloroethylene	9.64	1.0	µg/L	10.0		96.4	70-130	3.81	25		
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130	0.588	25		
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130	0.0970	25		
trans-1,3-Dichloropropene	9.99	0.50	µg/L	10.0		99.9	70-130	2.86	25		
1,4-Dioxane	115	50	µg/L	100		115	40-130	7.69	50		† ‡
Ethylbenzene	10.0	1.0	µg/L	10.0		100	70-130	2.63	25		
2-Hexanone (MBK)	99.3	10	µg/L	100		99.3	70-160	0.572	25		†
Isopropylbenzene (Cumene)	10.2	1.0	µg/L	10.0		102	70-130	2.29	25		
Methyl Acetate	10.6	1.0	µg/L	10.0		106	70-130	0.948	25		
Methyl tert-Butyl Ether (MTBE)	11.5	1.0	µg/L	10.0		115	70-130	0.611	25		
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130	0.592	25		
Methylene Chloride	8.06	5.0	µg/L	10.0		80.6	70-130	0.495	25		
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102	70-160	1.12	25		†
Styrene	10.3	1.0	µg/L	10.0		103	70-130	1.17	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B359756 - SW-846 5030B							70-130			
LCS Dup (B359756-BSD1)				Prepared & Analyzed: 12/05/23						
1,1,2,2-Tetrachloroethane	9.56	0.50	µg/L	10.0		95.6	70-130	1.37	25	
Tetrachloroethylene	9.94	1.0	µg/L	10.0		99.4	70-130	1.10	25	
Toluene	10.1	1.0	µg/L	10.0		101	70-130	0.198	25	
1,2,3-Trichlorobenzene	8.68	5.0	µg/L	10.0		86.8	70-130	0.460	25	
1,2,4-Trichlorobenzene	8.71	1.0	µg/L	10.0		87.1	70-130	1.15	25	
1,1,1-Trichloroethane	9.77	1.0	µg/L	10.0		97.7	70-130	1.13	25	
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	0.762	25	
Trichloroethylene	10.1	1.0	µg/L	10.0		101	70-130	2.21	25	
Trichlorofluoromethane (Freon 11)	8.67	2.0	µg/L	10.0		86.7	70-130	2.93	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.84	1.0	µg/L	10.0		88.4	70-130	0.227	25	
Vinyl Chloride UJ, LCSL	6.34	2.0	µg/L	10.0		63.4	40-160	5.84	25	V-05 †
m+p Xylene	20.2	2.0	µg/L	20.0		101	70-130	3.27	25	
o-Xylene	10.2	1.0	µg/L	10.0		102	70-130	1.28	25	
Xylenes (total)	30.4	1.0	µg/L	30.0		101	0-200	2.60		
Surrogate: 1,2-Dichloroethane-d4	*23.6*		µg/L	25.0		94.3	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*27.2*		µg/L	25.0		109	70-130			
							70-130			
Matrix Spike (B359756-MS1)	**Source: 23L0120-01**			Prepared: 12/05/23 Analyzed: 12/06/23						
Acetone	73.4	50	µg/L	100	ND	73.4	70-130			V-05, V-35
Benzene	10.4	1.0	µg/L	10.0	ND	104	70-130			
Bromochloromethane	10.6	1.0	µg/L	10.0	ND	106	70-130			
Bromodichloromethane	9.23	0.50	µg/L	10.0	ND	92.3	70-130			
Bromoform	8.55	1.0	µg/L	10.0	ND	85.5	70-130			
Bromomethane	8.77	2.0	µg/L	10.0	ND	87.7	70-130			V-34
2-Butanone (MEK)	121	20	µg/L	100	ND	121	70-130			
Carbon Disulfide	98.4	5.0	µg/L	100	ND	98.4	70-130			V-35
Carbon Tetrachloride	11.3	5.0	µg/L	10.0	ND	113	70-130			
Chlorobenzene	9.79	1.0	µg/L	10.0	ND	97.9	70-130			
Chlorodibromomethane	9.37	0.50	µg/L	10.0	ND	93.7	70-130			
Chloroethane	12.0	2.0	µg/L	10.0	ND	120	70-130			
Chloroform	9.81	2.0	µg/L	10.0	ND	98.1	70-130			
Chloromethane UJ, MSL	3.86	2.0	µg/L	10.0	ND	**38.6** *	70-130			MS-09, V-05, V-34
Cyclohexane	11.0	5.0	µg/L	10.0	ND	110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	7.60	5.0	µg/L	10.0	ND	76.0	70-130			
1,2-Dibromoethane (EDB)	9.94	0.50	µg/L	10.0	ND	99.4	70-130			
1,2-Dichlorobenzene	8.56	1.0	µg/L	10.0	ND	85.6	70-130			
1,3-Dichlorobenzene	8.67	1.0	µg/L	10.0	ND	86.7	70-130			
1,4-Dichlorobenzene	8.55	1.0	µg/L	10.0	ND	85.5	70-130			
Dichlorodifluoromethane (Freon 12)	9.56	2.0	µg/L	10.0	ND	95.6	70-130			
1,1-Dichloroethane	15.8	1.0	µg/L	10.0	6.24	95.8	70-130			
1,2-Dichloroethane	8.84	1.0	µg/L	10.0	ND	88.4	70-130			
1,1-Dichloroethylene	19.3	1.0	µg/L	10.0	11.4	79.3	70-130			V-05
cis-1,2-Dichloroethylene	9.93	1.0	µg/L	10.0	0.140	97.9	70-130			
trans-1,2-Dichloroethylene	9.59	1.0	µg/L	10.0	ND	95.9	70-130			
1,2-Dichloropropane	9.71	1.0	µg/L	10.0	ND	97.1	70-130			
cis-1,3-Dichloropropene	9.27	0.50	µg/L	10.0	ND	92.7	70-130			
trans-1,3-Dichloropropene	9.22	0.50	µg/L	10.0	ND	92.2	70-130			
1,4-Dioxane	105	50	µg/L	100	ND	105	70-130			
Ethylbenzene	9.85	1.0	µg/L	10.0	ND	98.5	70-130			
2-Hexanone (MBK)	97.7	10	µg/L	100	ND	97.7	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B359756 - SW-846 5030B								70-130			
Matrix Spike (B359756-MS1)		**Source: 23L0120-01**			Prepared: 12/05/23 Analyzed: 12/06/23						
Isopropylbenzene (Cumene)	10.1	1.0	µg/L	10.0	ND	101		70-130			
Methyl Acetate	8.68	1.0	µg/L	10.0	ND	86.8		70-130			
Methyl tert-Butyl Ether (MTBE)	11.0	1.0	µg/L	10.0	ND	110		70-130			
Methyl Cyclohexane	10.8	1.0	µg/L	10.0	ND	108		70-130			
Methylene Chloride	7.92	5.0	µg/L	10.0	ND	79.2		70-130			
4-Methyl-2-pentanone (MIBK)	99.8	10	µg/L	100	ND	99.8		70-130			
Styrene	9.86	1.0	µg/L	10.0	ND	98.6		70-130			
1,1,2,2-Tetrachloroethane	9.11	0.50	µg/L	10.0	ND	91.1		70-130			
Tetrachloroethylene	10.2	1.0	µg/L	10.0	ND	102		70-130			
Toluene	10.1	1.0	µg/L	10.0	ND	101		70-130			
1,2,3-Trichlorobenzene UJ, MSL	6.76	5.0	µg/L	10.0	ND	**67.6**	*	70-130			MS-24
1,2,4-Trichlorobenzene	7.68	1.0	µg/L	10.0	ND	76.8		70-130			
1,1,1-Trichloroethane	21.3	1.0	µg/L	10.0	10.9	104		70-130			
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0	ND	100		70-130			
Trichloroethylene	11.1	1.0	µg/L	10.0	1.24	98.5		70-130			
Trichlorofluoromethane (Freon 11)	9.09	2.0	µg/L	10.0	ND	90.9		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.38	1.0	µg/L	10.0	ND	93.8		70-130			
Vinyl Chloride UJ, MSL	6.09	2.0	µg/L	10.0	ND	**60.9**	*	70-130			MS-09, V-05
m+p Xylene	19.6	2.0	µg/L	20.0	ND	97.8		70-130			
o-Xylene	9.86	1.0	µg/L	10.0	ND	98.6		70-130			
Xylenes (total)	29.4	1.0	µg/L	30.0	ND	98.1		0-200			
Surrogate: 1,2-Dichloroethane-d4	*23.3*		µg/L	25.0		93.1		70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*27.2*		µg/L	25.0		109		70-130			
								70-130			
Matrix Spike Dup (B359756-MSD1)		**Source: 23L0120-01**			Prepared: 12/05/23 Analyzed: 12/06/23				< 20		
Acetone	71.9	50	µg/L	100	ND	71.9		70-130	2.02	30	V-05, V-35
Benzene	10.7	1.0	µg/L	10.0	ND	107		70-130	2.56	30	
Bromochloromethane	10.4	1.0	µg/L	10.0	ND	104		70-130	2.00	30	
Bromodichloromethane	9.69	0.50	µg/L	10.0	ND	96.9		70-130	4.86	30	
Bromoform	8.52	1.0	µg/L	10.0	ND	85.2		70-130	0.351	30	
Bromomethane	9.39	2.0	µg/L	10.0	ND	93.9		70-130	6.83	30	V-34
2-Butanone (MEK) Sample ND, %R within limits - no quals	91.4	20	µg/L	100	ND	91.4		70-130	27.8	30	
Carbon Disulfide	101	5.0	µg/L	100	ND	101		70-130	3.06	30	V-35
Carbon Tetrachloride	11.6	5.0	µg/L	10.0	ND	116		70-130	2.54	30	
Chlorobenzene	10.2	1.0	µg/L	10.0	ND	102		70-130	4.00	30	
Chlorodibromomethane	9.63	0.50	µg/L	10.0	ND	96.3		70-130	2.74	30	
Chloroethane	11.9	2.0	µg/L	10.0	ND	119		70-130	1.01	30	
Chloroform	10.0	2.0	µg/L	10.0	ND	100		70-130	2.02	30	
Chloromethane Add MSRPD	4.76	2.0	µg/L	10.0	ND	**47.6**	*	70-130	20.9	30	MS-09, V-05, V-34
Cyclohexane	11.5	5.0	µg/L	10.0	ND	115		70-130	4.80	30	
1,2-Dibromo-3-chloropropane (DBCP)	7.65	5.0	µg/L	10.0	ND	76.5		70-130	0.656	30	
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0	ND	103		70-130	3.27	30	
1,2-Dichlorobenzene	8.83	1.0	µg/L	10.0	ND	88.3		70-130	3.11	30	
1,3-Dichlorobenzene	9.21	1.0	µg/L	10.0	ND	92.1		70-130	6.04	30	
1,4-Dichlorobenzene	8.84	1.0	µg/L	10.0	ND	88.4		70-130	3.34	30	
Dichlorodifluoromethane (Freon 12)	9.84	2.0	µg/L	10.0	ND	98.4		70-130	2.89	30	
1,1-Dichloroethane	16.3	1.0	µg/L	10.0	6.24	101		70-130	3.23	30	
1,2-Dichloroethane	9.07	1.0	µg/L	10.0	ND	90.7		70-130	2.57	30	
1,1-Dichloroethylene	19.5	1.0	µg/L	10.0	11.4	81.1		70-130	0.928	30	V-05
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0	0.140	101		70-130	3.07	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B359756 - SW-846 5030B						70-130					
Matrix Spike Dup (B359756-MSD1)	**Source: 23L0120-01**			Prepared: 12/05/23 Analyzed: 12/06/23							
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0	ND	100		70-130	4.58	30	
1,2-Dichloropropane	10.0	1.0	µg/L	10.0	ND	100		70-130	3.24	30	
cis-1,3-Dichloropropene	9.65	0.50	µg/L	10.0	ND	96.5		70-130	4.02	30	
trans-1,3-Dichloropropene	9.47	0.50	µg/L	10.0	ND	94.7		70-130	2.68	30	
1,4-Dioxane	102	50	µg/L	100	ND	102		70-130	2.82	30	
Ethylbenzene	10.2	1.0	µg/L	10.0	ND	102		70-130	3.59	30	
2-Hexanone (MBK)	95.6	10	µg/L	100	ND	95.6		70-130	2.22	30	
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0	ND	105		70-130	3.99	30	
Methyl Acetate	8.47	1.0	µg/L	10.0	ND	84.7		70-130	2.45	30	
Methyl tert-Butyl Ether (MTBE)	10.8	1.0	µg/L	10.0	ND	108		70-130	1.38	30	
Methyl Cyclohexane	11.0	1.0	µg/L	10.0	ND	110		70-130	2.10	30	
Methylene Chloride	8.29	5.0	µg/L	10.0	ND	82.9		70-130	4.57	30	
4-Methyl-2-pentanone (MIBK)	96.5	10	µg/L	100	ND	96.5		70-130	3.33	30	
Styrene	10.2	1.0	µg/L	10.0	ND	102		70-130	3.49	30	
1,1,2,2-Tetrachloroethane	9.17	0.50	µg/L	10.0	ND	91.7		70-130	0.656	30	
Tetrachloroethylene	10.4	1.0	µg/L	10.0	ND	104		70-130	2.72	30	
Toluene	10.4	1.0	µg/L	10.0	ND	104		70-130	3.12	30	
1,2,3-Trichlorobenzene	7.78	5.0	µg/L	10.0	ND	77.8		70-130	14.0	30	
1,2,4-Trichlorobenzene	8.41	1.0	µg/L	10.0	ND	84.1		70-130	9.07	30	
1,1,1-Trichloroethane	21.7	1.0	µg/L	10.0	10.9	107		70-130	1.53	30	
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0	ND	101		70-130	0.397	30	
Trichloroethylene	11.4	1.0	µg/L	10.0	1.24	101		70-130	2.49	30	
Trichlorofluoromethane (Freon 11)	9.43	2.0	µg/L	10.0	ND	94.3		70-130	3.67	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.80	1.0	µg/L	10.0	ND	98.0		70-130	4.38	30	
Vinyl Chloride UJ, MSL	6.25	2.0	µg/L	10.0	ND	**62.5**	*	70-130	2.59	30	MS-09, V-05
m+p Xylene	20.4	2.0	µg/L	20.0	ND	102		70-130	4.06	20	
o-Xylene	10.2	1.0	µg/L	10.0	ND	102		70-130	3.68	30	
Xylenes (total)	30.6	1.0	µg/L	30.0	ND	102		0-200	3.93		
Surrogate: 1,2-Dichloroethane-d4	*23.5*		µg/L	25.0		93.8		70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103		70-130			
Surrogate: 4-Bromofluorobenzene	*27.5*		µg/L	25.0		110		70-130			

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SVOC

NYSDEC PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk November 2023
Method : SW-846 8270D (or specify)
Laboratory and SDG(s): Pace Con-Test **SDG#** 23K1552
Date: 4/8/2024
Reviewer: Gabrielle Davis
Review Level [X] CATEGORY A

1. ☑ **Case Narrative Review and Data Package Completeness** COMMENTS
   Were problems noted? YES NO (circle one) See above

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all water samples extracted within the 7 day holding time, and/or soil within 14 days? YES NO (circle one)
   Were extracts analyzed within 40 days of extraction? YES NO (circle one)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one)

   Are field blanks free of contamination? YES NO NA (circle one)

4. ☑ **Laboratory Control Sample Results** (Nominal water&soil limits: Base/Neutral 50-140%, Acid 30-140%)
   Were all results within limits? YES NO (circle one)

5. ☑ **Matrix Spike** (Nominal water & soil limits: Base/neutral 50-140; Acid 30-140; RPD water = 20; RPD soil = 35)
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within limits? YES NO NA (circle one)

6. ☑ **Surrogate Recovery** (Nominal water and soil limits: Base/Neutral 50-140%, Acid 30-140%)
   Were all results within limits? YES NO (circle one) See attached - UJ, SSL
   Were any recoveries < 10%? (Reject fraction compounds if ND and recoveries are < 10%)

7. ☑ **Field Duplicates** (RPD limits = water:50, soil:100)
   Were Field Duplicates submitted/analyzed? YES NO

   Were RPDs within criteria. YES NO NA (circle one)

8. ☑ **Reporting Limits:**
   Were samples analyzed at a dilution? YES NO (circle one)

9. ☑ **Electronic Data Review and Edits**:
   Does the EDD match the Form Is? YES NO (circle one)
   GTD 4/8/2024

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

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Project Location: 186 Mohonk Rd, High Falls, NY Sample Description: Work Order: 23K1552

Date Received: 11/10/2023

Field Sample #: 356023-MW-7R Sampled: 11/8/2023 15:40

Sample ID: 23K1552-09

Sample Matrix: Ground Water

Sample Flags: H-06

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	1.8	0.20	0.032	µg/L	1		SW-846 8270E	11/28/23	12/2/23 13:57	CJM
1,4-Dioxane	2.1	0.19	0.031	µg/L	1		SW-846 8270E	11/15/23	11/26/23 22:09	AYH

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	**14.4**	*	15-110	S-09	11/26/23 22:09
1,4-Dioxane-d8	21.9		15-110		12/2/23 13:57

J-, SSL

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Sample ID: 356023-MW-11B / 356023-MW_DUP

Compound	Result	LabQual	DF	Dup	LabQual	RPD
1,4-Dioxane	2.8			3		6.9

Sample ID: 356023-MW-4 / 356023-MW_DUP

Compound	Result	LabQual	DF	Dup	LabQual	RPD
1,1,1-Trichloroethane	380			390		2.6
1,1-Dichloroethane	19			19		0.0
1,1-Dichloroethene	47			49		4.2
cis-1,2-Dichloroethene	11			11		0.0
Trichloroethene	220			230		4.4

GTD 4/8/2024

CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in February 2024 at Mohonk Road Industrial Plant in High Falls, New York, and analyzed by Alpha Analytical located in Mansfield, Massachusetts, and Westborough, Massachusetts. Samples included in this review were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) methods:

- Volatile Organic Compounds (VOCs) by Method 8260D
- VOCs by Method 624.1
- 1,4-Dioxane by Method 8270E-Selected Ion Monitoring (SIM)

Results were reported in the following sample delivery groups (SDGs):

- L2406646
- L2406649
- L2407386

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = Target analyte is not detected at or above the reporting limit
UJ = Target analyte is not detected, value is estimated
J = Result is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review sample data are interpreted to meet the data quality objectives.

VOCs by Method 8260D

- Reporting limits for bromomethane in all samples in SDG L2407386 were qualified estimated (UJ) based on a low recovery in the LCS and LCS/LCSD relative percent difference (RPD) that exceeded project limits. Qualified results are summarized in Table 3 with reason codes LCSL and LCSRPD.
- Reporting limits for bromomethane and trans-1,4-dichloro-2-butene in sample 356023-MW-11B and associated field duplicate 356023-MW-DUP were qualified estimated (UJ) based on low recoveries in the MS/MSD and/or MS/MSD RPD that were outside project limits. Qualified results are listed in Table 3 with reason code MSL and/or MSRPD.
- Reporting limits for non-detect (ND) results in a subset of samples are elevated due to dilutions (5X-100X) required for high concentrations of target compounds.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

USEPA, 2010. "Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D"; HW-22, Revision 5; USEPA Region II Hazardous Waste Support Branch; December 2010.

Data Validator: Julie Ricardi

Julie Ricardi

Date: May 30, 2024

Reviewed by: Chris Ricardi, NRCC-EAC

Chris Ricardi

June 25, 2024

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

					Method Class	VOCs	SVOCs	Metals	TDS	TSS	pH
					Lab ID	ALPHA	ALPHA	ALPHA	ALPHA	ALPHA	ALPHA
					Analysis Method	8260D	8270E-SIM	6020B	2540C	2540D	9040C
					Fraction	N	N	T	D	T	T
Lab SDG	**Location**	**Sample ID**	**Media**	**Sample Date**	**Qc Code**	Param_Ct	Param_Ct	Param_Ct	Param_Ct	Param_Ct	Param_Ct
L2406646	EFFLUENT	EFFLUENT	TLS	2/6/2024	FS	45	1	1	1	1	1
L2406646	ERT-1	ERT-1	GW	2/6/2024	FS	45	1	1	1	1	1
L2406646	ERT-1	PERFORMANCE DUPLICATE	GW	2/6/2024	FD	45					
L2406646	INFLUENT	COMBINED INFLUENT	GW	2/6/2024	FS	45	1	1	1	1	1
L2406646	MW-5R	MW-5R	GW	2/6/2024	FS	45	1	1	1	1	1
L2406646	MW-7R	MW-7R	GW	2/6/2024	FS	45	1	1	1	1	1
L2406646	QC	TRIP BLANK_01	BW	2/5/2024	TB	45					
L2406649	QC	TRIP BLANK_02	BW	2/5/2024	TB	76					
L2406649	SVE-19	SVE-19	GW	2/6/2024	FS	76					
L2406649	SVE-21	SVE-21	GW	2/6/2024	FS	76					
L2406649	SVE-22	SVE-22	GW	2/6/2024	FS	76					
L2407386	ERT-1	356023-ERT-1	GW	2/8/2024	FS	76	1				
L2407386	ERT-4	356023-ERT-4	GW	2/7/2024	FS	76	1				
L2407386	MW-11B	356023-MW-11B	GW	2/7/2024	FS	76	1				
L2407386	MW-12B	356023-MW-12B	GW	2/8/2024	FS	76	1				
L2407386	MW-15B	356023-MW-15B	GW	2/7/2024	FS	76	1				
L2407386	MW-4	356023-MW-4	GW	2/7/2024	FS	76	1				
L2407386	MW-5B	356023-MW-5B	GW	2/7/2024	FS	76	1				
L2407386	MW-5R	356023-MW-5R	GW	2/8/2024	FS	76	1				
L2407386	MW-7R	356023-MW-7R	GW	2/8/2024	FS	76	1				
L2407386	MW-11B	356023-MW-DUP	GW	2/7/2024	FD	76	1				
L2407386	QC	TRIP BLANK_03	BW	2/5/2024	TB	76					

Created by: KMS 4/24/2024
Checked by: JAR 5/30/2024

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	EFFLUENT		ERT-1		ERT-1		INFLUENT		MW-5R	
		Lab SDG	L2406646		L2406646		L2406646		L2406646		L2406646	
		Sample Date	2/6/2024		2/6/2024		2/6/2024		2/6/2024		2/6/2024	
		Field Sample ID	EFFLUENT		ERT-1		PERFORMANCE DUPLICATE		COMBINED INFLUENT		MW-5R	
Method		**Qc Code**	FS		FS		FD		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	1,1,1-Trichloroethane	ug/l	4.5		53		52		25		27	
VOCs	N	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	1,1,2-Trichloroethane	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
VOCs	N	1,1-Dichloroethane	ug/l	2.4		7.6		8.1		2.2		2.2	
VOCs	N	1,1-Dichloroethene	ug/l	0.67	J	18		17		7.2		8.2	
VOCs	N	1,2-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,2-Dichloroethane	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
VOCs	N	1,2-Dichloropropane	ug/l	3.5	U	3.5	U	3.5	U	3.5	U	3.5	U
VOCs	N	1,3-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U
VOCs	N	1,4-Dichlorobenzene	ug/l	5	U	5	U	5	U	5	U	5	U
VOCs	N	2-Butanone	ug/l	10	U	10	U	10	U	10	U	10	U
VOCs	N	2-Chloroethyl vinyl ether	ug/l	10	U	10	U	10	U	10	U	10	U
VOCs	N	2-Hexanone	ug/l	10	U	10	U	10	U	10	U	10	U
VOCs	N	4-Methyl-2-pentanone	ug/l	10	U	10	U	10	U	10	U	10	U
VOCs	N	Acetone	ug/l	10	U	10	U	10	U	10	U	10	U
VOCs	N	Acrolein	ug/l	8	U	8	U	8	U	8	U	8	U
VOCs	N	Acrylonitrile	ug/l	10	U	10	U	10	U	10	U	10	U
VOCs	N	Benzene	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromodichloromethane	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromoform	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Bromomethane	ug/l	5	U	5	U	5	U	5	U	5	U
VOCs	N	Carbon disulfide	ug/l	5	U	5	U	5	U	5	U	5	U
VOCs	N	Carbon tetrachloride	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Chlorobenzene	ug/l	3.5	U	3.5	U	3.5	U	3.5	U	3.5	U
VOCs	N	Chloroethane	ug/l	2	U	2	U	2	U	2	U	2	U
VOCs	N	Chloroform	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Chloromethane	ug/l	5	U	5	U	5	U	5	U	5	U
VOCs	N	cis-1,2-Dichloroethene	ug/l	1	U	0.36	J	1	U	1	U	1	U
VOCs	N	cis-1,3-Dichloropropene	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
VOCs	N	Dibromochloromethane	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Dibromomethane	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Ethylbenzene	ug/l	1	U	1	U	1	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	EFFLUENT		ERT-1		ERT-1		INFLUENT		MW-5R	
		Lab SDG	L2406646		L2406646		L2406646		L2406646		L2406646	
		Sample Date	2/6/2024		2/6/2024		2/6/2024		2/6/2024		2/6/2024	
		Field Sample ID	EFFLUENT		ERT-1		PERFORMANCE DUPLICATE		COMBINED INFLUENT		MW-5R	
Method		**Qc Code**	FS		FS		FD		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	Methylene chloride	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Styrene	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Tetrachloroethene	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Toluene	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	trans-1,2-Dichloroethene	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
VOCs	N	trans-1,3-Dichloropropene	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
VOCs	N	Trichloroethene	ug/l	0.52	J	5.1		5		2.9		3	
VOCs	N	Trichlorofluoromethane	ug/l	5	U	5	U	5	U	5	U	5	U
VOCs	N	Vinyl acetate	ug/l	10	U	10	U	10	U	10	U	10	U
VOCs	N	Vinyl chloride	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Xylene, o	ug/l	1	U	1	U	1	U	1	U	1	U
VOCs	N	Xylenes (m&p)	ug/l	2	U	2	U	2	U	2	U	2	U
VOCs	N	Xylenes, Total	ug/l	1	U	1	U	1	U	1	U	1	U
SVOCs	N	1,4-Dioxane	ng/l	3,720		5,520				2,200		2,290	
Metals	T	Iron	mg/l	0.05	U	0.05	U			0.05	U	0.05	U
IOCs	T	pH (H)	PH UNITS	7.83		7.07				7.26		7.12	
IOCs	T	Total Suspended Solids	mg/l	5	U	5	U			5	U	5	U
IOCs	D	Total Dissolved Solids	mg/l	410		410				400		410	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	MW-7R		QC	
		Lab SDG	L2406646		L2406646	
		Sample Date	2/6/2024		2/5/2024	
		Field Sample ID	MW-7R		TRIP BLANK_01	
Method		**Qc Code**	FS		TB	
Class	**Fraction**	**Parameter**	**Units**	Result Qualifier	Result	Qualifier
VOCs	N	1,1,1-Trichloroethane	ug/l	71	2	U
VOCs	N	1,1,2,2-Tetrachloroethane	ug/l	1 U	1	U
VOCs	N	1,1,2-Trichloroethane	ug/l	1.5 U	1.5	U
VOCs	N	1,1-Dichloroethane	ug/l	38	1.5	U
VOCs	N	1,1-Dichloroethene	ug/l	10	1	U
VOCs	N	1,2-Dichlorobenzene	ug/l	5 U	5	U
VOCs	N	1,2-Dichloroethane	ug/l	1.5 U	1.5	U
VOCs	N	1,2-Dichloropropane	ug/l	3.5 U	3.5	U
VOCs	N	1,3-Dichlorobenzene	ug/l	5 U	5	U
VOCs	N	1,4-Dichlorobenzene	ug/l	5 U	5	U
VOCs	N	2-Butanone	ug/l	10 U	10	U
VOCs	N	2-Chloroethyl vinyl ether	ug/l	10 U	10	U
VOCs	N	2-Hexanone	ug/l	10 U	10	U
VOCs	N	4-Methyl-2-pentanone	ug/l	10 U	10	U
VOCs	N	Acetone	ug/l	10 U	10	U
VOCs	N	Acrolein	ug/l	8 U	8	U
VOCs	N	Acrylonitrile	ug/l	10 U	10	U
VOCs	N	Benzene	ug/l	1 U	1	U
VOCs	N	Bromodichloromethane	ug/l	1 U	1	U
VOCs	N	Bromoform	ug/l	1 U	1	U
VOCs	N	Bromomethane	ug/l	5 U	5	U
VOCs	N	Carbon disulfide	ug/l	5 U	5	U
VOCs	N	Carbon tetrachloride	ug/l	1 U	1	U
VOCs	N	Chlorobenzene	ug/l	3.5 U	3.5	U
VOCs	N	Chloroethane	ug/l	2 U	2	U
VOCs	N	Chloroform	ug/l	1 U	1	U
VOCs	N	Chloromethane	ug/l	5 U	5	U
VOCs	N	cis-1,2-Dichloroethene	ug/l	1.3	1	U
VOCs	N	cis-1,3-Dichloropropene	ug/l	1.5 U	1.5	U
VOCs	N	Dibromochloromethane	ug/l	1 U	1	U
VOCs	N	Dibromomethane	ug/l	1 U	1	U
VOCs	N	Ethylbenzene	ug/l	1 U	1	U

Created by: KMS 6/5/24
Checked by: JAR 6/25/24

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	MW-7R		QC	
		Lab SDG	L2406646		L2406646	
		Sample Date	2/6/2024		2/5/2024	
		Field Sample ID	MW-7R		TRIP BLANK_01	
Method		**Qc Code**	FS		TB	
Class	**Fraction**	**Parameter** **Units**	Result	Qualifier	Result	Qualifier
VOCs	N	Methylene chloride ug/l	1	U	1	U
VOCs	N	Styrene ug/l	1	U	1	U
VOCs	N	Tetrachloroethene ug/l	1	U	1	U
VOCs	N	Toluene ug/l	1	U	1	U
VOCs	N	trans-1,2-Dichloroethene ug/l	1.5	U	1.5	U
VOCs	N	trans-1,3-Dichloropropene ug/l	1.5	U	1.5	U
VOCs	N	Trichloroethene ug/l	1.6		1	U
VOCs	N	Trichlorofluoromethane ug/l	5	U	5	U
VOCs	N	Vinyl acetate ug/l	10	U	10	U
VOCs	N	Vinyl chloride ug/l	1	U	1	U
VOCs	N	Xylene, o ug/l	1	U	1	U
VOCs	N	Xylenes (m&p) ug/l	2	U	2	U
VOCs	N	Xylenes, Total ug/l	1	U	1	U
SVOCs	N	1,4-Dioxane ng/l	2,760			
Metals	T	Iron mg/l	0.05	U		
IOCs	T	pH (H) PH UNITS	7.22			
IOCs	T	Total Suspended Solids mg/l	5	U		
IOCs	D	Total Dissolved Solids mg/l	400			

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	QC		SVE-19		SVE-21		SVE-22		ERT-1		ERT-4	
		Lab SDG	L2406649		L2406649		L2406649		L2406649		L2407386		L2407386	
		Sample Date	2/5/2024		2/6/2024		2/6/2024		2/6/2024		2/8/2024		2/7/2024	
		Field Sample ID	TRIP BLANK_02		SVE-19		SVE-21		SVE-22		356023-ERT-1		356023-ERT-4	
Method		**Qc Code**	TB		FS		FS		FS		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	1,1,1,2-Tetrachloroethane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,1,1-Trichloroethane	ug/l	2.5	U	12,000		15,000		3,300		47		2,100	
VOCs	N	1,1,2,2-Tetrachloroethane	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	1,1,2-Trichloroethane	ug/l	1.5	U	150	U	150	U	38	U	1.5	U	38	U
VOCs	N	1,1-Dichloroethane	ug/l	2.5	U	170	J	250	U	70		7.1		46	J
VOCs	N	1,1-Dichloroethene	ug/l	0.5	U	3,300		1,100		380		15		210	
VOCs	N	1,1-Dichloropropene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2,3-Trichlorobenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2,3-Trichloropropane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2,4-Trichlorobenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2,4-Trimethylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2-Dibromo-3-chloropropane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2-Dibromoethane	ug/l	2	U	200	U	200	U	50	U	2	U	50	U
VOCs	N	1,2-Dichlorobenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2-Dichloroethane	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	1,2-Dichloroethene (total)	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,2-Dichloropropane	ug/l	1	U	100	U	100	U	25	U	1	U	25	U
VOCs	N	1,3,5-Trimethylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,3-Dichlorobenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,3-Dichloropropane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,3-Dichloropropene (total)	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	1,4-Dichlorobenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	1,4-Dioxane	ug/l	250	U	25,000	U	25,000	U	6,200	U	250	U	6,200	U
VOCs	N	2,2-Dichloropropane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	2-Butanone	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	2-Chlorotoluene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	2-Hexanone	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	4-Chlorotoluene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	4-Ethyltoluene	ug/l	2	U	200	U	200	U	50	U	2	U	50	U
VOCs	N	4-iso-Propyltoluene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	4-Methyl-2-pentanone	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	Acetone	ug/l	5	U	500	U	500	U	120	U	5	U	120	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	QC		SVE-19		SVE-21		SVE-22		ERT-1		ERT-4	
		Lab SDG	L2406649		L2406649		L2406649		L2406649		L2407386		L2407386	
		Sample Date	2/5/2024		2/6/2024		2/6/2024		2/6/2024		2/8/2024		2/7/2024	
		Field Sample ID	TRIP BLANK_02		SVE-19		SVE-21		SVE-22		356023-ERT-1		356023-ERT-4	
Method		**Qc Code**	TB		FS		FS		FS		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	Acrylonitrile	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	Benzene	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	Benzene, 1,2,4,5-tetramethyl	ug/l	2	U	200	U	200	U	50	U	2	U	50	U
VOCs	N	Bromobenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Bromochloromethane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Bromodichloromethane	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	Bromoform	ug/l	2	U	200	U	200	U	50	U	2	U	50	U
VOCs	N	Bromomethane	ug/l	2.5	U	250	U	250	U	62	U	2.5	UJ	62	UJ
VOCs	N	Carbon disulfide	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	Carbon tetrachloride	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	4.5	J
VOCs	N	Chlorobenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Chloroethane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Chloroform	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Chloromethane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	cis-1,2-Dichloroethene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	cis-1,3-Dichloropropene	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	Dibromochloromethane	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	Dibromomethane	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	Dichlorodifluoromethane	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	Diethyl ether	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Ethylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Hexachlorobutadiene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Isopropylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Methyl Tertbutyl Ether	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Methylene chloride	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	n-Butylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Naphthalene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	p-Diethylbenzene	ug/l	2	U	200	U	200	U	50	U	2	U	50	U
VOCs	N	Propylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	sec-Butylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Styrene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	tert-Butylbenzene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
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MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	QC		SVE-19		SVE-21		SVE-22		ERT-1		ERT-4	
		Lab SDG	L2406649		L2406649		L2406649		L2406649		L2407386		L2407386	
		Sample Date	2/5/2024		2/6/2024		2/6/2024		2/6/2024		2/8/2024		2/7/2024	
		Field Sample ID	TRIP BLANK_02		SVE-19		SVE-21		SVE-22		356023-ERT-1		356023-ERT-4	
Method		**Qc Code**	TB		FS		FS		FS		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	Tetrachloroethene	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	Toluene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	trans-1,2-Dichloroethene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	trans-1,3-Dichloropropene	ug/l	0.5	U	50	U	50	U	12	U	0.5	U	12	U
VOCs	N	trans-1,4-Dichloro-2-butene	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Trichloroethene	ug/l	0.5	U	300		570		310		5.3		100	
VOCs	N	Trichlorofluoromethane	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Vinyl acetate	ug/l	5	U	500	U	500	U	120	U	5	U	120	U
VOCs	N	Vinyl chloride	ug/l	1	U	100	U	100	U	25	U	1	U	25	U
VOCs	N	Xylene, o	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Xylenes (m&p)	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
VOCs	N	Xylenes, Total	ug/l	2.5	U	250	U	250	U	62	U	2.5	U	62	U
SVOCs	N	1,4-Dioxane	ng/l									5,670		5,800	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
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		Location	MW-11B		MW-11B		MW-12B		MW-15B		MW-4		MW-5B	
		Lab SDG	L2407386		L2407386		L2407386		L2407386		L2407386		L2407386	
		Sample Date	2/7/2024		2/7/2024		2/8/2024		2/7/2024		2/7/2024		2/7/2024	
		Field Sample ID	356023-MW-DUP		356023-MW-11B		356023-MW-12B		356023-MW-15B		356023-MW-4		356023-MW-5B	
Method		**Qc Code**	FD		FS		FS		FS		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	1,1,1,2-Tetrachloroethane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,1,1-Trichloroethane	ug/l	0.98	J	0.88	J	2.1	J	12		520		850	
VOCs	N	1,1,2,2-Tetrachloroethane	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	1,1,2-Trichloroethane	ug/l	1.5	U	1.5	U	1.5	U	1.5	U	7.5	U	15	U
VOCs	N	1,1-Dichloroethane	ug/l	2.7		2.6		1.3	J	6.2		22		19	J
VOCs	N	1,1-Dichloroethene	ug/l	5		4.8		1.8		14		79		160	
VOCs	N	1,1-Dichloropropene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,2,3-Trichlorobenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,2,3-Trichloropropane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,2,4-Trichlorobenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,2,4-Trimethylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,2-Dibromo-3-chloropropane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,2-Dibromoethane	ug/l	2	U	2	U	2	U	2	U	10	U	20	U
VOCs	N	1,2-Dichlorobenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,2-Dichloroethane	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	1.2	J	5	U
VOCs	N	1,2-Dichloroethene (total)	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	11	J	25	U
VOCs	N	1,2-Dichloropropane	ug/l	1	U	1	U	1	U	1	U	5	U	10	U
VOCs	N	1,3,5-Trimethylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,3-Dichlorobenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,3-Dichloropropane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,3-Dichloropropene (total)	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	1,4-Dichlorobenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	1,4-Dioxane	ug/l	250	U	250	U	250	U	250	U	1,200	U	2,500	U
VOCs	N	2,2-Dichloropropane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	2-Butanone	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	2-Chlorotoluene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	2-Hexanone	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	4-Chlorotoluene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	4-Ethyltoluene	ug/l	2	U	2	U	2	U	2	U	10	U	20	U
VOCs	N	4-iso-Propyltoluene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	4-Methyl-2-pentanone	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	Acetone	ug/l	5	U	5	U	5	U	5	U	25	U	50	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
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		Location	MW-11B		MW-11B		MW-12B		MW-15B		MW-4		MW-5B	
		Lab SDG	L2407386		L2407386		L2407386		L2407386		L2407386		L2407386	
		Sample Date	2/7/2024		2/7/2024		2/8/2024		2/7/2024		2/7/2024		2/7/2024	
		Field Sample ID	356023-MW-DUP		356023-MW-11B		356023-MW-12B		356023-MW-15B		356023-MW-4		356023-MW-5B	
Method		**Qc Code**	FD		FS		FS		FS		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	Acrylonitrile	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	Benzene	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	Benzene, 1,2,4,5-tetramethyl	ug/l	2	U	2	U	2	U	2	U	10	U	20	U
VOCs	N	Bromobenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Bromochloromethane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Bromodichloromethane	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	Bromoform	ug/l	2	U	2	U	2	U	2	U	10	U	20	U
VOCs	N	Bromomethane	ug/l	2.5	UJ	2.5	UJ	2.5	UJ	2.5	UJ	12	UJ	25	UJ
VOCs	N	Carbon disulfide	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	Carbon tetrachloride	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	3.9	J
VOCs	N	Chlorobenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Chloroethane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Chloroform	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Chloromethane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	cis-1,2-Dichloroethene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	11	J	25	U
VOCs	N	cis-1,3-Dichloropropene	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	Dibromochloromethane	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	Dibromomethane	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	Dichlorodifluoromethane	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	Diethyl ether	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Ethylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Hexachlorobutadiene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Isopropylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Methyl Tertbutyl Ether	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Methylene chloride	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	n-Butylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Naphthalene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	p-Diethylbenzene	ug/l	2	U	2	U	2	U	2	U	10	U	20	U
VOCs	N	Propylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	sec-Butylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Styrene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	tert-Butylbenzene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	MW-11B		MW-11B		MW-12B		MW-15B		MW-4		MW-5B	
		Lab SDG	L2407386		L2407386		L2407386		L2407386		L2407386		L2407386	
		Sample Date	2/7/2024		2/7/2024		2/8/2024		2/7/2024		2/7/2024		2/7/2024	
		Field Sample ID	356023-MW-DUP		356023-MW-11B		356023-MW-12B		356023-MW-15B		356023-MW-4		356023-MW-5B	
Method		**Qc Code**	FD		FS		FS		FS		FS		FS	
Class	**Fraction**	**Parameter**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	N	Tetrachloroethene	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	Toluene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	trans-1,2-Dichloroethene	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	trans-1,3-Dichloropropene	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	2.5	U	5	U
VOCs	N	trans-1,4-Dichloro-2-butene	ug/l	2.5	UJ	2.5	UJ	2.5	U	2.5	U	12	U	25	U
VOCs	N	Trichloroethene	ug/l	1		0.89		0.64		1.3		290		60	
VOCs	N	Trichlorofluoromethane	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Vinyl acetate	ug/l	5	U	5	U	5	U	5	U	25	U	50	U
VOCs	N	Vinyl chloride	ug/l	1	U	1	U	1	U	1	U	5	U	10	U
VOCs	N	Xylene, o	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Xylenes (m&p)	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
VOCs	N	Xylenes, Total	ug/l	2.5	U	2.5	U	2.5	U	2.5	U	12	U	25	U
SVOCs	N	1,4-Dioxane	ng/l	2,980		3,020		548		4,110		3,100		9,620	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
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MOHONK ROAD INDUSTRIAL PLANT
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		Location	MW-5R		MW-7R		QC	
		Lab SDG	L2407386		L2407386		L2407386	
		Sample Date	2/8/2024		2/8/2024		2/5/2024	
		Field Sample ID	356023-MW-5R		356023-MW-7R		TRIP BLANK_03	
Method		**Qc Code**	FS		FS		TB	
Class	**Fraction**	**Parameter**	**Units**	Result Qualifier	Result Qualifier		Result Qualifier	
VOCs	N	1,1,1,2-Tetrachloroethane	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,1,1-Trichloroethane	ug/l	26	74		2.5 U	
VOCs	N	1,1,2,2-Tetrachloroethane	ug/l	0.5 U	0.5 U		0.5 U	
VOCs	N	1,1,2-Trichloroethane	ug/l	1.5 U	1.5 U		1.5 U	
VOCs	N	1,1-Dichloroethane	ug/l	2.1 J	42		2.5 U	
VOCs	N	1,1-Dichloroethene	ug/l	7.4	11		0.5 U	
VOCs	N	1,1-Dichloropropene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,2,3-Trichlorobenzene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,2,3-Trichloropropane	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,2,4-Trichlorobenzene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,2,4-Trimethylbenzene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,2-Dibromo-3-chloropropane	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,2-Dibromoethane	ug/l	2 U	2 U		2 U	
VOCs	N	1,2-Dichlorobenzene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,2-Dichloroethane	ug/l	0.5 U	0.5 U		0.5 U	
VOCs	N	1,2-Dichloroethene (total)	ug/l	2.5 U	1.3 J		2.5 U	
VOCs	N	1,2-Dichloropropane	ug/l	1 U	1 U		1 U	
VOCs	N	1,3,5-Trimethylbenzene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,3-Dichlorobenzene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,3-Dichloropropane	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,3-Dichloropropene (total)	ug/l	0.5 U	0.5 U		0.5 U	
VOCs	N	1,4-Dichlorobenzene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	1,4-Dioxane	ug/l	250 U	250 U		250 U	
VOCs	N	2,2-Dichloropropane	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	2-Butanone	ug/l	5 U	5 U		5 U	
VOCs	N	2-Chlorotoluene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	2-Hexanone	ug/l	5 U	5 U		5 U	
VOCs	N	4-Chlorotoluene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	4-Ethyltoluene	ug/l	2 U	2 U		2 U	
VOCs	N	4-iso-Propyltoluene	ug/l	2.5 U	2.5 U		2.5 U	
VOCs	N	4-Methyl-2-pentanone	ug/l	5 U	5 U		5 U	
VOCs	N	Acetone	ug/l	5 U	5 U		5 U	

Created by: KMS 6/5/24
Checked by: JAR 6/25/24

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	MW-5R		MW-7R		QC	
		Lab SDG	L2407386		L2407386		L2407386	
		Sample Date	2/8/2024		2/8/2024		2/5/2024	
		Field Sample ID	356023-MW-5R		356023-MW-7R		TRIP BLANK_03	
Method		**Qc Code**	FS		FS		TB	
Class	**Fraction**	**Parameter**	**Units**	Result Qualifier		Result Qualifier		Result Qualifier
VOCs	N	Acrylonitrile	ug/l	5 U		5 U		5 U
VOCs	N	Benzene	ug/l	0.5 U		0.5 U		0.5 U
VOCs	N	Benzene, 1,2,4,5-tetramethyl	ug/l	2 U		2 U		2 U
VOCs	N	Bromobenzene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Bromochloromethane	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Bromodichloromethane	ug/l	0.5 U		0.5 U		0.5 U
VOCs	N	Bromoform	ug/l	2 U		2 U		2 U
VOCs	N	Bromomethane	ug/l	2.5 UJ		2.5 UJ		2.5 U
VOCs	N	Carbon disulfide	ug/l	5 U		5 U		5 U
VOCs	N	Carbon tetrachloride	ug/l	0.5 U		0.5 U		0.5 U
VOCs	N	Chlorobenzene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Chloroethane	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Chloroform	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Chloromethane	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	cis-1,2-Dichloroethene	ug/l	2.5 U		1.3 J		2.5 U
VOCs	N	cis-1,3-Dichloropropene	ug/l	0.5 U		0.5 U		0.5 U
VOCs	N	Dibromochloromethane	ug/l	0.5 U		0.5 U		0.5 U
VOCs	N	Dibromomethane	ug/l	5 U		5 U		5 U
VOCs	N	Dichlorodifluoromethane	ug/l	5 U		5 U		5 U
VOCs	N	Diethyl ether	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Ethylbenzene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Hexachlorobutadiene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Isopropylbenzene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Methyl Tertbutyl Ether	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Methylene chloride	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	n-Butylbenzene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Naphthalene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	p-Diethylbenzene	ug/l	2 U		2 U		2 U
VOCs	N	Propylbenzene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	sec-Butylbenzene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	Styrene	ug/l	2.5 U		2.5 U		2.5 U
VOCs	N	tert-Butylbenzene	ug/l	2.5 U		2.5 U		2.5 U

Created by: KMS 6/5/24
Checked by: JAR 6/25/24

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

		Location	MW-5R		MW-7R		QC	
		Lab SDG	L2407386		L2407386		L2407386	
		Sample Date	2/8/2024		2/8/2024		2/5/2024	
		Field Sample ID	356023-MW-5R		356023-MW-7R		TRIP BLANK_03	
Method		**Qc Code**	FS		FS		TB	
Class	**Fraction**	**Parameter**	**Units**	Result Qualifier		Result Qualifier		Result Qualifier
VOCs	N	Tetrachloroethene	ug/l	0.5	U	0.5	U	0.5 U
VOCs	N	Toluene	ug/l	2.5	U	2.5	U	2.5 U
VOCs	N	trans-1,2-Dichloroethene	ug/l	2.5	U	2.5	U	2.5 U
VOCs	N	trans-1,3-Dichloropropene	ug/l	0.5	U	0.5	U	0.5 U
VOCs	N	trans-1,4-Dichloro-2-butene	ug/l	2.5	U	2.5	U	2.5 U
VOCs	N	Trichloroethene	ug/l	3.3		1.6		0.5 U
VOCs	N	Trichlorofluoromethane	ug/l	2.5	U	2.5	U	2.5 U
VOCs	N	Vinyl acetate	ug/l	5	U	5	U	5 U
VOCs	N	Vinyl chloride	ug/l	1	U	1	U	1 U
VOCs	N	Xylene, o	ug/l	2.5	U	2.5	U	2.5 U
VOCs	N	Xylenes (m&p)	ug/l	2.5	U	2.5	U	2.5 U
VOCs	N	Xylenes, Total	ug/l	2.5	U	2.5	U	2.5 U
SVOCs	N	1,4-Dioxane	ng/l	2,240		2,710		

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

Lab SDG	Location	Field Sample ID	Lab Sample ID	Analysis Method	Fraction	Parameter	Lab Result	Lab Qual	Final Result	Final Qual	Val Reason Code	Units	Lab ID
L2407386	MW-4	356023-MW-4	L2407386-01	8260D	N	Bromomethane	12	U	12	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	MW-5B	356023-MW-5B	L2407386-02	8260D	N	Bromomethane	25	U	25	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	MW-11B	356023-MW-11B	L2407386-03	8260D	N	Bromomethane	2.5	U	2.5	UJ	LCSL, LCSRPD, MSL, MSRPD	ug/l	ALPHA
L2407386	MW-11B	356023-MW-11B	L2407386-03	8260D	N	trans-1,4-Dichloro-2-butene	2.5	U	2.5	UJ	MSL	ug/l	ALPHA
L2407386	MW-12B	356023-MW-12B	L2407386-04	8260D	N	Bromomethane	2.5	U	2.5	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	MW-15B	356023-MW-15B	L2407386-05	8260D	N	Bromomethane	2.5	U	2.5	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	ERT-4	356023-ERT-4	L2407386-06	8260D	N	Bromomethane	62	U	62	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	ERT-1	356023-ERT-1	L2407386-07	8260D	N	Bromomethane	2.5	U	2.5	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	MW-5R	356023-MW-5R	L2407386-08	8260D	N	Bromomethane	2.5	U	2.5	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	MW-7R	356023-MW-7R	L2407386-09	8260D	N	Bromomethane	2.5	U	2.5	UJ	LCSL, LCSRPD	ug/l	ALPHA
L2407386	MW-11B	356023-MW-DUP	L2407386-10	8260D	N	trans-1,4-Dichloro-2-butene	2.5	U	2.5	UJ	MSL	ug/l	ALPHA
L2407386	MW-11B	356023-MW-DUP	L2407386-10	8260D	N	Bromomethane	2.5	U	2.5	UJ	LCSL, LCSRPD	ug/l	ALPHA

CATEGORY A REVIEW REPORT
FEBRUARY 2024 GROUNDWATER SAMPLING
MOHONK ROAD INDUSTRIAL PLANT
HIGH FALLS, NEW YORK

ATTACHMENT A

VOCs and 1,4-Dioxane

PROJECT CATEGORY A REVIEW RECORD
Project: Mohonk Feb 2024 GW
Method : SW-846 8260C (or specify) 8260D / 624.1 / 8270E-SIM (1,4-Dioxane)
Laboratory: Alpha Analytical **SDG(s):** L2406646, L2406649, L2407386
Date: 5/23/2024
Reviewer: Julie Ricardi
Review Level [X] CATEGORY A

1. ☑ Case **Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted? L2407386—No problems noted L2406649—No problems noted

   Were all the samples on the COC analyzed for the requested analyses? YES NO (circle one)

   Are Field Sample IDs and Locations assigned correctly? YES NO (circle one)

2. ☑ **Holding time and Sample Collection**
   Were all samples properly preserved and analyzed within the 14 day holding time? (7 day holding time for unpreserved samples) YES NO (circle one) (See Table 1, USEPA Region 2 SOP HW-24, Rev 4, Sep 2014)

3. ☑ **QC Blanks**
   Are method blanks free of contamination? YES NO (circle one) VOCs ND; 1,4-Dioxane by 8270E-SIM MB = 62.4 ng/L; all samples >>blank conc; no quals needed

   Are Trip blanks free of contamination? YES NO (circle one)

   Are Rinse blanks free of contamination? YES NO NA (circle one)

4. ☑ **Matrix Spike** – Use nominal limits for recovery (water and soil 70-130%) and relative percent difference (RPD) (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.
   Were MS/MSDs submitted/analyzed? YES NO

   Were all results within above QC limits? YES NO NA (circle one)
   Were any recoveries <20%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]
   See attached MS/MSD eval for VOC quals 256023-MW-11B MS/MSD; else okay

5. ☑ **Laboratory Control Sample Results** – Use nominal limits for recovery (water and soil 70-130%) and RPD (water RPD ≤20, soil RPD ≤35) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)
   See attached LCS summary for VOC eval and quals; else okay

6. ☑ **Surrogate Recovery** – Use nominal limits for recovery (water 80-120%, soil 70-130%) based on Region 2 SOP guidance.

   Were all results within above QC limits? YES NO (circle one)
   Were any results <10%? YES NO NA (circle one) [National Functional Guidelines 2020 [Expanded Lower Acceptance Limit"]

7. ☑ **Field Duplicates** - Region 2 limits (water RPD 50, soil RPD 100)
   Were Field Duplicates submitted/analyzed? YES NO
   L2406646—ERT-1/PERFORMANCE DUPLICATE: All okay
   L2407386—356023-MW-11B/356023-MW-DUP: All okay
   Were all results within Region 2 Limits? YES NO NA (circle one)

8. ☑ **Reporting Limits:** Were samples analyzed at a dilution? YES NO (circle one)

9. ☑ **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES NO (circle one)

10. ☑ **Table Review**

Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? YES NO (circle one)

Table 4 (TICs) Did lab report TICs? YES NO (circle one)

Lab Control Sample Analysis
Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.01

Lab Number: L2406646
Report Date: 02/20/24

70-130

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1884317-3								
Vinyl chloride	80		-		5-195	-		66
Chloroethane	95		-		40-160	-		78
1,1-Dichloroethene	85		-		50-150	-		32
trans-1,2-Dichloroethene	90		-		70-130	-		45
cis-1,2-Dichloroethene	90		-		60-140	-		30
Trichloroethene	85		-		65-135	-		48
1,2-Dichlorobenzene	85		-		65-135	-		57
1,3-Dichlorobenzene	80		-		70-130	-		43
1,4-Dichlorobenzene	80		-		65-135	-		57
p/m-Xylene	82		-		60-140	-		30
o-xylene	80		-		60-140	-		30
Styrene	85		-		60-140	-		30
Acetone	108		-		40-160	-		30
Carbon disulfide	90		-		60-140	-		30
2-Butanone	108		-		60-140	-		30
Vinyl acetate ND in samples; no quals	175	Q	-		60-140	-		30
4-Methyl-2-pentanone	96		-		60-140	-		30
2-Hexanone	98		-		60-140	-		30
Acrolein	110		-		60-140	-		30
Acrylonitrile	105		-		60-140	-		60
Dibromomethane	90		-		70-130	-		30

JAR 5/23/2024

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.01
Lab Number: L2406646
Report Date: 02/20/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1883555-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	02/09/24 14:28	121,2540D	CVN
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1884098-1										
Solids, Total Dissolved	4.0	J	mg/l	10	3.1	1	-	02/12/24 03:38	121,2540C	DEW
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1884100-1										
Solids, Total Dissolved	ND		mg/l	10	3.1	1	-	02/12/24 03:37	121,2540C	DEW

Samples >> blank conc; no quals

JAR 5/23/2024

Lab Control Sample Analysis
Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.01

Lab Number: L2406649
Report Date: 02/13/24

70-130; RPD 20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1884170-3 WG1884170-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	130		130		55-138	0		20
1,1-Dichloroethene	110		110		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	99		99		70-130	0		20
1,2-Dichlorobenzene	97		99		70-130	2		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	98		98		70-130	0		20
Methyl tert butyl ether	97		99		63-130	2		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	99		98		70-130	1		20
1,2,3-Trichloropropane	82		82		64-130	0		20
Acrylonitrile	100		100		70-130	0		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	110		110		36-147	0		20
Acetone	87		87		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone	93		97		63-138	4		20
Vinyl acetate No quals; sample ND	140	Q	140	Q	70-130	0		20
4-Methyl-2-pentanone	83		84		59-130	1		20
2-Hexanone	80		78		57-130	3		20

All else okay

JAR 5/23/2024

Lab Control Sample Analysis
Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.****

Lab Number: L2407386
Report Date: 02/16/24

70-130; RPD 20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1884620-3 WG1884620-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	95		100		70-130	5		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	92		100		70-130	8		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	110		120		75-130	9		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	94		100		70-130	6		20
1,1,1-Trichloroethane	100		100		67-130	0		20
Bromodichloromethane	98		110		67-130	12		20
trans-1,3-Dichloropropene	95		100		70-130	5		20
cis-1,3-Dichloropropene	100		110		70-130	10		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	96		110		54-136	14		20
1,1,2,2-Tetrachloroethane	87		100		67-130	14		20
Benzene	110		110		70-130	0		20
Toluene	110		110		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	98		100		64-130	2		20
Bromomethane UJ all samples; LCSL, LCSRPD	65		81		39-139	22	Q	20

JAR 5/23/2024

Lab Control Sample Analysis
Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.****

Lab Number: L2407386
Report Date: 02/16/24

70-130; RPD 20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1884620-3 WG1884620-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	97		98		61-145	1		20
trans-1,2-Dichloroethene	100		110		70-130	10		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		120		70-130	9		20
1,3-Dichlorobenzene	120		130		70-130	8		20
1,4-Dichlorobenzene	120		130		70-130	8		20
Methyl tert butyl ether	89		100		63-130	12		20
p/m-Xylene	115		120		70-130	4		20
o-Xylene	115		120		70-130	4		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	92		100		70-130	8		20
1,2,3-Trichloropropane	91		100		64-130	9		20
Acrylonitrile No quals; samples ND and %R okay	87		110		70-130	**23**	Q	20
Styrene	110		115		70-130	4		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	77		77		58-148	0		20
Carbon disulfide	110		110		51-130	0		20
2-Butanone No quals; samples ND and %R okay	77		100		63-138	**26**	Q	20
Vinyl acetate No quals; samples ND	**200**	Q	**230**	Q	70-130	14		20
4-Methyl-2-pentanone	79		97		59-130	20		20
2-Hexanone	76		92		57-130	19		20

JAR 5/23/2024

Lab Control Sample Analysis
Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.****

Lab Number: L2407386
Report Date: 02/16/24

70-130; RPD 20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 Batch: WG1884620-3 WG1884620-4								
Bromochloromethane	110		120		70-130	9		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	93		100		70-130	7		20
1,3-Dichloropropane	97		110		70-130	13		20
1,1,1,2-Tetrachloroethane	100		110		64-130	10		20
Bromobenzene	110		120		70-130	9		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	110		120		70-130	9		20
tert-Butylbenzene	120		120		70-130	0		20
o-Chlorotoluene	110		110		70-130	0		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	82		95		41-144	15		20
Hexachlorobutadiene	94		100		63-130	6		20
Isopropylbenzene	120		120		70-130	0		20
p-Isopropyltoluene	120		120		70-130	0		20
Naphthalene No quals; samples ND, %R okay	70		93		70-130	28	Q	20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	82		99		70-130	19		20
1,2,4-Trichlorobenzene	90		100		70-130	11		20
1,3,5-Trimethylbenzene	110		120		64-130	9		20
1,2,4-Trimethylbenzene	110		120		70-130	9		20
1,4-Dioxane No quals; samples ND, %R okay	84		106		56-162	23	Q	20
p-Diethylbenzene	110		120		70-130	9		20

JAR 5/23/2024

Matrix Spike Analysis
Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.****

Lab Number: L2407386
Report Date: 02/16/24

70-130; RPD 20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1884620-6 WG1884620-7 QC Sample: L2407386-03 Client ID: 356023-MW-11B												
Methylene chloride	ND	10	10	100		11	110		70-130	10		20
1,1-Dichloroethane	2.6	10	14	114		14	114		70-130	0		20
Chloroform	ND	10	10	100		11	110		70-130	10		20
Carbon tetrachloride	ND	10	11	110		11	110		63-132	0		20
1,2-Dichloropropane	ND	10	11	110		11	110		70-130	0		20
Dibromochloromethane	ND	10	10	100		10	100		63-130	0		20
1,1,2-Trichloroethane	ND	10	10	100		9.8	98		70-130	2		20
Tetrachloroethene	ND	10	11	110		11	110		70-130	0		20
Chlorobenzene	ND	10	11	110		11	110		75-130	0		20
Trichlorofluoromethane	ND	10	12	120		12	120		62-150	0		20
1,2-Dichloroethane	ND	10	11	110		11	110		70-130	0		20
1,1,1-Trichloroethane	0.88J	10	12	120		12	120		67-130	0		20
Bromodichloromethane	ND	10	10	100		11	110		67-130	10		20
trans-1,3-Dichloropropene	ND	10	9.8	98		9.7	97		70-130	1		20
cis-1,3-Dichloropropene	ND	10	10	100		10	100		70-130	0		20
1,1-Dichloropropene	ND	10	11	110		11	110		70-130	0		20
Bromoform	ND	10	10	100		10	100		54-136	0		20
1,1,2,2-Tetrachloroethane	ND	10	9.6	96		9.5	95		67-130	1		20
Benzene	ND	10	11	110		11	110		70-130	0		20
Toluene	ND	10	11	110		10	100		70-130	10		20
Ethylbenzene	ND	10	11	110		10	100		70-130	10		20
Chloromethane	ND	10	11	110		11	110		64-130	0		20
Bromomethane UJ MW-11B; MSL, MSRPD also UJ associated FD MW-DUP	ND	10	4.3	43		5.8	58		39-139	30	Q	20

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Matrix Spike Analysis

Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.****

Lab Number: L2407386
Report Date: 02/16/24

70-130; RPD 20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1884620-6 WG1884620-7 QC Sample: L2407386-03 Client ID: 356023-MW-11B												
Vinyl chloride	ND	10	11	110		12	120		55-140	9		20
Chloroethane	ND	10	12	120		12	120		55-138	0		20
1,1-Dichloroethene	4.8	10	15	102		15	102		61-145	0		20
trans-1,2-Dichloroethene	ND	10	11	110		10	100		70-130	10		20
Trichloroethene	0.89	10	11	101		11	101		70-130	0		20
1,2-Dichlorobenzene	ND	10	12	120		12	120		70-130	0		20
1,3-Dichlorobenzene	ND	10	12	120		12	120		70-130	0		20
1,4-Dichlorobenzene	ND	10	12	120		12	120		70-130	0		20
Methyl tert butyl ether	ND	10	9.9	99		10	100		63-130	1		20
p/m-Xylene	ND	20	23	115		23	115		70-130	0		20
o-Xylene	ND	20	24	120		23	115		70-130	4		20
cis-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Dibromomethane	ND	10	10	100		9.9	99		70-130	1		20
1,2,3-Trichloropropane	ND	10	9.6	96		9.4	94		64-130	2		20
Acrylonitrile	ND	10	10	100		11	110		70-130	10		20
Styrene	ND	20	23	115		22	110		70-130	4		20
Dichlorodifluoromethane	ND	10	11	110		10	100		36-147	10		20
Acetone	ND	10	9.6	96		9.7	97		58-148	1		20
Carbon disulfide	ND	10	11	110		11	110		51-130	0		20
2-Butanone	ND	10	10	100		9.9	99		63-138	1		20
Vinyl acetate No quals; sample ND	ND	10	23	**230**	Q	24	**240**	Q	70-130	4		20
4-Methyl-2-pentanone	ND	10	9.5	95		9.3	93		59-130	2		20
2-Hexanone	ND	10	9.2	92		9.2	92		57-130	0		20

JAR 5/23/2024

Matrix Spike Analysis

Batch Quality Control

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.****

Lab Number: L2407386
Report Date: 02/16/24

70-130; RPD 20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-11 QC Batch ID: WG1884620-6 WG1884620-7 QC Sample: L2407386-03 Client ID: 356023-MW-11B												
p-Ethyltoluene	ND	10	11	110		11	110		70-130	0		20
1,2,4,5-Tetramethylbenzene	ND	10	9.6	96		9.6	96		70-130	0		20
Ethyl ether	ND	10	9.9	99		9.9	99		59-134	0		20
trans-1,4-Dichloro-2-butene	ND	10	6.8	68	Q	6.0	60	Q	70-130	13		20

UJ; MSL
MW-11B and associated FD MW-DUP
ALL OTHER TARGET COMPOUNDS OKAY

JAR 5/23/2024

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		105		70-130
4-Bromofluorobenzene	99		97		70-130
Dibromofluoromethane	105		105		70-130
Toluene-d8	101		101		70-130

Project Name: MOHONK ROAD INDUSTRIAL PLANT
Project Number: 7772210116.03.****

Lab Number: L2407386
Report Date: 02/16/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 02/14/24 07:22
Analyst: TPR

Extraction Method: EPA 3510C
Extraction Date: 02/12/24 11:42

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270E-SIM - Mansfield Lab for sample(s): 01-10 Batch: WG1884200-1					
1,4-Dioxane	Samples >> Blank conc; no quals 62.4	J	ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

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