Ashland Inc.

2022 Corrective Measure Implementation Annual Progress Report

Ashland Distribution
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Rensselaer, New York

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Acronyms and Abbreviations

1,1-DCE	1,1-dichloroethene
1,2-DCA	1,2-dichloroethane
Arcadis	Arcadis U.S., Inc.
Ashland	Ashland Inc.
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylene
cis-1,2-DCE	cis-1,2-dichloroethene
CMI	Corrective Measure Implementation
CSM	conceptual site model
CVOC	chlorinated volatile organic compound
DPT	direct-push technology
ERD	enhanced reductive dechlorination
EVO	emulsified vegetable oil
IRZ	in-situ reactive zone
mg/L	milligrams per liter
MNA	monitored natural attenuation
NYSDEC	New York State Department of Environmental Protection
NYSDOH	New York State Department of Health
PCE	tetrachloroethene
PRB	permeable reactive barrier
reporting period	January 1 through December 31, 2021
site	Ashland Property located at 130 South Street in Rensselaer, New York
SMP	Site Management Plan
TCE	trichloroethene
TOC	total organic carbon
TOGS	Technical and Operational Guidance Series
trans-1,2-DCE	trans-1,2-dichloroethene
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

1 Introduction

On behalf of Ashland Inc. (Ashland), Arcadis U.S., Inc. (Arcadis) prepared this 2022 Corrective Measure Implementation (CMI) Annual Progress Report for the Ashland Property located at 130 South Street in Rensselaer, New York (site; Figure 1). This report details the activities conducted on site from January 1 through December 31, 2022 (reporting period).

Arcadis prepared this 2022 CMI Annual Report on behalf of Ashland as required by the Administrative Order on Consent, Docket No. II, RCRA-92-3008(h)-0201, between Ashland and the United States Environmental Protection Agency (USEPA) Region 2, and according to the CMI Work Plan (Arcadis 2010). The CMI Work Plan was approved by the USEPA in a letter dated March 16, 2010 and updated for groundwater monitoring as approved by the USEPA in a letter dated March 17, 2011 (USEPA 2010, 2011). Groundwater remediation activities consist of an enhanced reductive dechlorination (ERD) program in upgradient source zones and along the downgradient portion of the site to address potential off-site migration of chlorinated volatile organic compounds (CVOCs) in groundwater. This is the twelfth year of remedy implementation.

The ERD program was optimized beginning in 2017 to target CVOC mass flux areas and source zones identified during the 2017 site characterization activities detailed in the 2017 CMI Annual Report (Arcadis 2018a). The optimization included expanding the injection well network in 2018, subsurface emulsified vegetable oil (EVO) injections using direct-push technology (DPT) drilling in 2020, and the installation of a mulch permeable reactive barrier (PRB) along the downgradient property boundary to provide a long-term carbon source to groundwater. The mulch PRB installation is on hold pending an implementation strategy evaluation.

The activities listed below comprise the ongoing scope of the selected site remedy:

- Operate an enhanced bioattenuation remediation system to achieve ERD along the downgradient portion of the property and, starting in 2018, at confirmed source areas.
- Monitor ERD system performance.
- Monitor benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations in groundwater samples from MW-20.
- Monitor groundwater and, if necessary, evaluate the need for additional vapor monitoring at the former Volvo service center located across the railroad tracks approximately 125 feet west of the site.
- Provide institutional and engineering controls.

This 2022 CMI Annual Report is organized into the sections listed in the table below.

Section	Purpose
Section 1 – Introduction	Provides a brief overview of the groundwater remediation activities and organization of this 2022 CMI Annual Report.
Section 2 – Corrective Measure Objectives	Provides the objectives of the remedy.
Section 3 – Enhanced Reductive Dechlorination Summary	Discusses the ERD injection methodology, well network, injection substrate, and the remedial optimization activities since 2017.
Section 4 – Groundwater Monitoring	Summarizes site-wide groundwater monitoring events, modifications to the program, and results for the past year.
Section 5 – Periodic Review Report: Engineering and Institutional Controls	Documents implementation and inspection of engineering and institutional controls at the site.
Section 6 – Conclusion, Recommendations, and Schedule	Summarizes the remedial activities conducted during this reporting period. Presents recommendations for future activities and a schedule for the future work.
Section 7 – References	Lists the references cited throughout this 2022 CMI Annual Report.

2 Corrective Measure Objectives

In the Revised Draft Corrective Measures Study Report (Arcadis 2009), Ashland proposed a tiered approach to identifying the corrective measure objectives using goals for short-term protectiveness, intermediate performance (defined as the initial 10 to 15 years after remedy implementation), and final cleanup goals.

The short-term protectiveness goals include:

- Prevention of unacceptable human exposure to constituents (on site and off site).
- Prevention of migration of constituents (off site).

The intermediate performance goals include:

- Protection of human health and the environment (on site and off site).
- Maintenance of plume control (on site).
- Returning the site to a productive asset for the surrounding community (on site).

Final cleanup goals include:

- Protection of human health and the environment (on site and off site).
- Achieving cleanup objectives (on site and off site).

Media cleanup standards for on-site conditions have not been established because institutional controls (e.g., deed restrictions on water use, health and safety provisions for below-grade excavation) and engineering controls (e.g., fencing, asphalt, and building slabs) can be used to prevent exposure to these media.

3 Enhanced Reductive Dechlorination Summary

This section discusses historical ERD activities including injection methodology, well networks, and injection substrate.

3.1 Historical Injections

Groundwater remediation activities began in October 2010 with the injection of a dilute molasses solution in three separate events conducted approximately quarterly (see Table 1). The original injection well network comprised five wells installed to a depth of 12 to 20 feet below ground surface (bgs) in each of the two in-situ reactive zone (IRZ) areas along the downgradient property line: the southern IRZ (A-Line) and northern IRZ (B-Line). After establishing a healthy microbial population with molasses injections, the injected substrate was switched to EVO which supplies a carbon source over a longer period through partial sorption of the EVO injection fluids, followed by dissolution over time into site groundwater. EVO injections were completed in 2011, 2013, and 2015.

Based on a review of performance data, Arcadis completed additional investigation efforts in 2017 and 2018 to assess the presence of source mass not targeted by the initial injection well network. These efforts included a limited-scale molasses injection event in 2017 as described in the 2017 Annual CMI Report (Arcadis 2018a). Data from those investigations resulted in the installation of 17 additional injection wells and one monitoring well to expand and optimize the existing ERD system infrastructure (Figure 2). The injection wells were intended to address confirmed on-site source areas and a deeper mass flux zone along the property boundary. A subsequent EVO injection event was completed in 2018, utilizing only the newly installed injection wells. In 2020, EVO was injected into the full set of injection wells, including both the newly installed locations and the existing injection well network (see Table 2a). During the 2020 EVO injection event, injections were also performed at 11 DPT drilling locations in 2020 to provide supplemental targeted treatment as described in the 2020 Annual CMI Report (Arcadis 2021). See Table 2a and Table 2b for a summary of remedial optimization injections.

3.2 Mulch PRB

Performance monitoring data collected in 2020 indicated that deeper injection events targeting areas identified during site characterization events yielded successful treatment; however, a combination of continued deep injections and carbon substrate delivery to the shallow subsurface consistent with injections from 2010 to 2016 were necessary to meet project objectives. To address this observation, Ashland proposed installing a mulch PRB to facilitate carbon distribution into the shallow subsurface.

Ashland received approval from the NYSDEC via email on September 14, 2020 to implement the Mulch PRB Installation Work Plan (Arcadis 2020). The mulch PRB installation has been postponed while Ashland and Arcadis evaluate potential alternative implementation strategies that would make the mulch PRB more cost effective to address the shallow mass flux zone along the site boundary and provide long-term carbon substrate delivery to the shallow subsurface.

4 Groundwater Monitoring

This section summarizes site-wide groundwater monitoring events, modifications to the program, and results from the reporting period.

4.1 Groundwater Monitoring Program

The groundwater monitoring program presented in the CMI Work Plan (Arcadis 2010) establishes the relevant Sampling and Analysis Plan and quality assurance/quality control parameters for future monitoring, which track the efficacy of the corrective measure. Quarterly sampling of a selected monitoring network was performed primarily downgradient and off site from the IRZs for the first 2 years of implementation and then semi-annually starting in 2013 at the following locations: IP-1, IMP-3, MW-16, MW-17, MW-18, and MW-21. Monitoring well MW-13, which is located on-site and upgradient of the Southern IRZ Area, is used as a background location. In 2019, the monitoring program was modified to include additional wells and analytes as detailed below. Changes to the monitoring program were documented in the ERD Work Plan (Arcadis 2018b). Table 3 summarizes the 2022 semi-annual monitoring program for IRZ performance and MW-20 BTEX constituents.

4.2 Groundwater Monitoring Activities

The two site semi-annual monitoring events were performed on April 12 and 13, 2022 (spring sampling event), and November 2 and 3, 2022 (fall sampling event). Monitoring is intended to track performance of the corrective measure implementation and provide data to support injection frequency (e.g., total organic carbon [TOC] concentrations at injection wells). To support post-injection monitoring, additional samples were collected during the 2022 spring and fall sampling events at the following wells: MW-16, MW-20, MW-23, MW-24, and MW-25. Monitored natural attenuation (MNA) parameters including ethane, ethene, and methane were also collected at select wells during the 2022 spring and fall sampling events. These additional groundwater monitoring activities are summarized in Table 3. Groundwater monitoring results are discussed in Section 4.6.

4.3 Laboratory Analyses

Groundwater samples collected during the 2022 spring and fall sampling events were analyzed for the following parameters as shown on Table 3:

- Volatile organic compounds (VOCs) by Method USEPA SW 846 8260C;
- TOC by Method USEPA SW 846 9060A; and
- Ethane, ethene, and methane using USEPA SW 846 Method Robert S. Kerr (RSK-175) standard operating procedure.

4.4 Quality Assurance/Quality Control

The data packages for the semi-annual sampling events were reviewed by an Arcadis data validator. Any qualification of the data was determined using the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005 November 2020 (with reference to the historical USEPA Contract

Laboratory Program National Functional Guidelines of Organic Data Review, OWSER 9240. 1-05A-P, October 1999, as appropriate).

Data verification was performed at a Level II and included review of the data package completeness, sample preservation, holding times, blank contamination (method, field, and trip), laboratory control samples, matrix spike recoveries, and field duplicates.

Data Usability Summary Reports were prepared for the 2022 spring and fall sampling events by Arcadis, and are included as Appendix A. The results were usable; either as reported or with minor qualification. The data validator's comments are incorporated in Tables 6 through 8.

4.5 Groundwater Monitoring Methodology

Before collecting groundwater samples during the semiannual events, Arcadis measured the depth to water across the site for comparison to historical groundwater elevations. Groundwater elevation results are discussed in Section 4.6.1.

Groundwater samples were collected according to the methodology described in the CMI Work Plan (Arcadis 2010) using low-flow sampling techniques to minimize turbidity in the samples. Each well was purged using a peristaltic pump at a flow rate between 150 and 350 milliliters per minute. Groundwater samples were collected from each well after water quality field parameters (including pH, dissolved oxygen, oxidation-reduction potential, temperature, turbidity, and conductivity) stabilized (i.e., within +/- 0.1 for pH, 10 percent for dissolved oxygen, 3 percent for conductivity, and 10 millivolts for oxidation-reduction potential). The water quality field parameters were monitored and recorded approximately every five minutes until stabilization was achieved. Field parameters from the sampling events completed during the reporting period are provided in Table 4. Groundwater monitoring field logs are included in Appendix B.

Following collection, groundwater samples were packed for shipment in a cooler with ice under appropriate chain-of-custody protocol and transported to Eurofins Savannah located in Savanna Georgia, for all analyses.

4.6 Groundwater Monitoring Results

Historically, the following compounds have been detected at the site: 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), trichloroethene (TCE), tetrachloroethene (PCE), and vinyl chloride (VC).

ERD performance can be evaluated in various ways, including:

- Elevated dechlorination daughter compounds (cis-1,2-DCE and VC) and end products (ethane and ethene) trends alongside decreasing parent compound (PCE and TCE) trends.
- Maintained elevated levels of TOC as electron donors.
- Favorable geochemical conditions to support parent product degradation into dechlorination daughter products and end products.
- Presence of methanogenic conditions in target treatment zones (i.e., the presence of methane) favorable for microorganisms capable of CVOC dechlorination.

4.6.1 Groundwater Elevation

Two rounds of groundwater levels were measured as part of the semiannual groundwater sampling activities and are presented in Table 5. Groundwater contours for the 2022 spring and fall sampling events are shown on Figures 3 and 4. Groundwater elevation data measured during the reporting period suggest that groundwater flow was consistent with historical observations, flowing generally to the north-northwest.

4.6.2 Total Organic Carbon, Methane, and pH

TOC results allow evaluation of carbon substrate distribution, downgradient transportation prior to consumption by biota, and biota consumption via processes that lead to ERD of parent compounds. TOC samples were collected at 14 monitoring wells and two injection wells during the spring and fall sampling events.

Groundwater concentrations for TOC and MNA parameters, including methane, from 2022 sampling events are shown on Figure 5 and summarized in Tables 6 and 7, respectively. The “at-a-glance” charts for performance monitoring wells (MW-B1, MW-A1, and MW-19), additional monitoring wells included to support expansion of the existing remedy (MW-23, MW-24, and MW-25), and select downgradient monitoring wells (MW-16, MW-18, IP-1, and IMP-3) are presented on Figures 6 through 15.

The target TOC concentration is approximately 20 milligrams per liter (mg/L) which is assumed sufficient to promote ERD based on Arcadis’ experience with ERD implementation; however, TOC concentrations below this target but still above background are often adequate. Results from the semi-annual events are presented in Table 6 and detailed below:

- The TOC analytical results from groundwater samples collected from wells IW-A2, IW-B3, and MW-24 located within the IRZ had concentrations exceeding the target. Although wells MW-B1, MW-A1, MW-23 and MW-25 were below the target, the concentrations are above background and, therefore, sufficient TOC is considered present within the IRZ areas.
- Downgradient TOC results for the six off-site locations (MW-16, MW-17, MW-18, MW-21, IP-1, and IMP-3) are consistent with historical values, ranging from an estimated 1.1 to 5.3 mg/L.
- TOC at MW-13, located upgradient from treatment areas, was not detected above reporting limits consistent with historical values.

Methanogenic conditions favorable for ERD were observed during the reporting period within or immediately downgradient of property boundary IRZs. Methane concentrations are shown in Table 7 and summarized below:

- Methane was detected in all on-site wells analyzed for methane in the spring and fall sampling events. On-site methane concentrations from wells within the anticipated IRZ areas ranged from 4.2 mg/L to 26 mg/L in 2022, indicating that sufficient reducing conditions exist.
- Methane concentrations were generally consistent with historical levels at downgradient monitoring locations MW-18 and IP-1 during the reporting period. In the spring sampling event, IP-1 and MW-18 exhibited elevated methane concentrations (2.8 and 2.9 mg/L respectively as shown in Table 7); however, considering that the methane concentrations dropped back down in the fall sampling event, no vapor monitoring for methane is considered necessary at this time.
- pH values in all performance monitoring wells were maintained in the range favorable for ERD (i.e., between 5 and 8 standard units) throughout the reporting period as shown in Table 4.

These data indicate that site groundwater remains strongly supportive of ongoing ERD remedy implementation following the 2020 injection event.

4.6.3 Volatile Organic Compounds

Site groundwater VOC results have historically been compared to guidance values/standards, as applicable, found in the Technical and Operational Guidance Series (TOGS; NYSDEC 1998) and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum). Results exceeding these guidance values/standards are discussed below. The results of VOC analysis from samples collected at the background well, IRZ performance monitoring wells, downgradient wells, and wells near the former Volvo service center are also discussed below.

Groundwater analytical results from this reporting period for dechlorination end products (ethane and ethene) and VOCs are summarized in Tables 7 and 8, respectively. The following wells described in this section exhibited VOC groundwater concentrations above the TOGS Criteria during the reporting period as shown in Table 8: IMP-3, IP-1, IW-A2, MW-16, MW-18, MW-19, MW-20, MW-24, MW-25, MW-A1, and MW-B1. Results for key CVOCs (PCE, TCE, cis-1,2-DCE, and VC) and their dechlorination end products are also presented in the “at-a-glance” charts shown on Figures 6 through 15 which show concentration trends over the full timeframe of ERD remedy implementation at the site.

Ketones such as acetone, 2-butonone, and 2-hexanone are temporary products of organic carbon substrate (e.g., EVO) fermentation. These compounds may be detected near locations where organic carbon substrate is injected; however, these compounds degrade and/or attenuate rapidly when transported downgradient of the treatment zone via groundwater movement because they serve as electron donors to support ERD. Acetone has exceeded TOGS Criteria occasionally since injection began, particularly during quarterly injections with molasses as described in Section 3.1.

Acetone was detected in groundwater samples collected from MW-24 and MW-25 during this reporting period. The acetone concentrations in the groundwater samples collected from MW-25 were less than the TOGS Criteria during both sampling events; however, the concentration in the groundwater sample collected from MW-24 during the spring sampling event exceeded the TOGS criteria. 2-butonone was the only other temporary product of organic carbon substrate that was detected in the groundwater sample collected from MW-24 during the spring event. 2-butonone and 2-hexanone were non-detect at all other locations sampled during the reporting period. Monitoring of these parameters will continue during the next sampling event. Subsequent sections describe results from key monitoring locations in additional detail.

4.6.3.1 Background Well

Samples collected from monitoring well MW-13 (the background location) were non-detect for all CVOC analytes during the 2022 sampling events. This is consistent with historical observations at this location.

4.6.3.2 In-Situ Reactive Zone Monitoring Wells

Monitoring wells within and immediately downgradient of the IRZs (MW-B1, MW-A1, and MW-19) are included in the monitoring program to evaluate ERD effectiveness along the property boundary. Monitoring wells MW-23, MW-24, and MW-25 were included during this reporting period to evaluate the 2018 and 2020 expansion of the existing ERD remedy. Performance monitoring results for key CVOCs (PCE, TCE, cis-1,2-DCE, and VC), their

dechlorination end products (ethene and ethane), and an indicator of reducing conditions (methane) are presented on Figures 6 through 15 for these wells.

These IRZ monitoring wells continue to demonstrate ERD effectiveness within and immediately downgradient of the IRZs along the property boundary as discussed below.

4.6.3.2.1 Northern (B-Line) In-Situ Reactive Zone Monitoring Wells

The northern monitoring well results are included in Table 7 and Table 8 and summarized below. At-a-glance charts are included for these wells on Figures 6 through 8.

Shallow Zone

Monitoring well MW-B1 is representative of the shallow mass flux zone for the northern (B-Line) IRZ area. Parent products (PCE and TCE) were not detected in the reporting period, however; daughter products (cis-1,2-DCE and VC) and end products (ethane and ethene) were detected in the reporting period. The VC concentration in the groundwater sample collected during the fall sampling event slightly exceeded the TOGS criteria. Daughter product concentrations decreased from historical highs following remedial activities in 2010 and fluctuated until approximately 2018. Daughter product concentrations were minimal or non-detect following injections in 2018 and 2020 which suggests reductive dechlorination along the northern IRZ. However, further monitoring is required to evaluate the recent daughter product detections.

Deeper Zone

Monitoring wells MW-23 and MW-24 are representative of the deeper mass flux zone for the northern IRZ area.

Monitoring well MW-23 exhibited the following trends regarding key CVOCs:

- Parent products were not detected during the reporting period.
- Daughter products were detected in both the spring and fall sampling event, likely because of the 2020 injection event.

As shown on Figure 7, parent and daughter products at MW-23 decreased to non-detect concentrations alongside elevated end products following the 2017 and 2018 injections. Parent and daughter product concentrations have remained non-detect except for limited daughter product detections as shown in Table 8.

Monitoring well MW-24 exhibited the following trends regarding key CVOCs:

- Parent products were not detected during the reporting period.
- Daughter products decreased to below TOGS criteria during the fall sampling event.

As shown on Figure 8, TCE at MW-24 diminished to non-detect concentrations alongside elevated daughter product concentrations following the 2017 and 2018 injections. Elevated TCE was observed in November 2020 resulting from the 2020 injection event. TCE and daughter products then decreased to non-detect by the 2021 fall sampling event; however, elevated reporting limits did not allow for analysis down to TOGS criteria. Laboratory reporting limits were lowered in the spring and fall sampling results which showed that daughter products continued to decrease over the reporting period. Parent and daughter product concentrations were below their respective TOGS criteria during the fall sampling event. The overall trend at MW-24 location indicates a steady shift from parent products to daughter and end products.

Overall, VOC data collected at these wells during the reporting period suggest that ERD has resulted in a significant transformation from parent to end products in the northern IRZ and in the expanded areas of influence from the 2018 and 2020 remedial optimizations.

4.6.3.2.2 Southern (A-Line) In-Situ Reactive Zone Monitoring Wells

Overall, VOC data collected during the reporting period suggest that ERD continues to occur within the southern IRZ in response to remedial optimization activities since 2017. Southern (A-line) IRZ monitoring well results are included in Tables 7 and 8 and summarized below.

Source Area

Monitoring well MW-25, which represents the southern source area mass flux zone, exhibited the following trends regarding key CVOCs:

- Parent products decreased to below TOGS criteria during the fall sampling event.
- Daughter products have continued to decrease but remain above TOGS criteria.
- End products were elevated during the reporting period.

As shown on Figure 9, parent products decreased alongside increasing daughter products because of the 2018 injection event. Parent product concentrations decreased further to limited or non-detect concentrations following the 2020 injection event alongside a significant increase in daughter product cis-1,2-DCE. However, parent and daughter products rebounded at MW-25 during 2021 which is common when residual VOC mass adsorbed to soil (previously inaccessible for treatment) dissolves into groundwater to reach equilibrium conditions. Parent and daughter product concentrations both trended downward during the reporting period and were near or below their respective TOGS criteria during the fall sampling event. These results indicate reductive dechlorination is occurring at and upgradient of this location in response to the 2018 and 2020 injection events. Performance monitoring results in 2023 will be used to evaluate if concentrations continue to decrease.

Shallow Zone

Monitoring wells MW-A1 and MW-19 represent the shallow mass flux zone for the southern IRZ area.

Monitoring well MW-A1 exhibited the following trends regarding key CVOCs:

- Parent products were not detected at MW-A1 during the reporting period.
- Daughter products were detected during the spring sampling event but decreased to non-detect by the fall sampling event.

As shown on Figure 10, parent and daughter products concentrations have remained limited or non-detect at MW-A1 for the last five sampling events, which has never occurred for consecutive sampling events at this location. This indicates that remedy effectiveness has improved significantly in this area because of remedial optimization activities since 2017.

Monitoring well MW-19 exhibited the following trends regarding key CVOCs:

- Parent product concentrations were less than the TOGS Criteria during the reporting period.
- Daughter product concentrations fluctuated during the reporting period.
- End products were elevated during the reporting period.

As shown on Figure 11, parent products have historically fluctuated at MW-19, which is attributed to residual CVOC mass sorbed to soil that is liberated during ERD injections. Daughter products have also historically fluctuated; however, they decreased following the 2020 injection event and remained near historical lows during the reporting period. End products continued to be detected during the reporting period. These results indicate reductive dechlorination is occurring through completion in this area.

CVOCs at these shallow mass flux zone locations have fluctuated since injections began along the property boundary; however, they have trended downward with an associated shift to end products since system optimization in 2017. MW-19 is screened over a larger interval than MW-A1 and may be impacted by both shallow and deeper mass flux pathways. Daughter products at MW-19 have decreased over time but remain above screening levels; this indicates the shallow mass flux zone may require additional carbon substrate for complete CVOC mass reduction in this area.

Downgradient On-Site Wells

Monitoring well MW-20 is at the downgradient edge of the property but outside what has historically been considered the IRZ areas. The 2018 remedial optimization described in Section 3.1 expanded the IRZ to include areas upgradient of these wells.

Monitoring well MW-20 exhibited the following trends regarding key CVOCs:

- Parent product concentrations fluctuated within historical ranges during the reporting period but remain above TOGS criteria.
- Daughter product concentrations fluctuated within historical lows during the reporting period.

The continued, but limited, presence of daughter and end products at this well suggests that natural degradation is likely occurring at or upgradient of this area. However, parent, daughter, and end product results do not show a significant influence from remedial optimization activities since 2017. This indicates that these wells are primarily impacted by the shallow mass flux pathway, and not the deeper mass flux zones targeted during remedial optimization activities since 2017.

BTEX concentrations have generally demonstrated decreasing trends at MW-20 since ERD treatment began. Benzene exceeded TOGS Criteria during the reporting period but was within historical ranges. Toluene, ethylbenzene, and xylenes have remained limited or non-detect since late 2019. The variation in BTEX concentrations is likely attributed to upgradient groundwater flushing and consumption as organic carbon to accentuate ERD within this area.

4.6.3.3 Downgradient Monitoring Wells

Downgradient off-site monitoring wells include MW-16, MW-18, IP-1, IMP-3, MW-17, and MW-21. Performance monitoring results for key CVOCs, their dechlorination end products, and an indicator of reducing conditions (methane) are presented on Figures 12 through 15 for a subset of these wells. Performance monitoring results are included in Table 8.

Monitoring well MW-16, located downgradient of the southern source area detailed in Section 3, exhibited the following trends regarding key CVOCs:

- Parent and daughter products fluctuated near historical lows during the reporting period.

As shown on Figure 12, daughter products at MW-16 have generally decreased in response to both shallow and deeper injection activities since 2010; however, the trend appears more significant in response to deeper injection activities since 2017. These results indicate that MW-16 is influenced by both the shallow and deeper mass flux pathways.

Monitoring wells MW-17 and MW-21, located downgradient from the southern IRZ on the southwestern edge of the downgradient off-site property, continue to have no key CVOC detections; with the exception of a low estimated detection of cis-1,2-DCE in the groundwater sampling collected from MW-17 during the spring sampling event.

Monitoring wells IMP-3, IP-1, and MW-18, located downgradient of the northern IRZ, exhibited continued non-detect parent product concentrations and daughter product concentrations within historical ranges during the reporting period as shown on Figures 13 through 15. These monitoring wells have shown limited influence from historical shallow injections from 2010 to 2015 or from remedial optimization activities since 2017.

As part of the monitoring program, IMP-3, IP-1, MW-16, and MW-18 are also monitored for select VOCs (1,2-DCA, benzene, TCE, cis-1,2-DCE, trans-1,2-DCE, and VC) to address potential soil vapor exposure concerns in commercial buildings near these monitoring wells near the Former Volvo Center. Each of these wells had concentrations greater than the TOGS criteria for at least one of the select VOCs during the reporting period as shown on Table 8. The fall sampling event concentrations of these select VOCs do not indicate a change in condition warranting additional action for vapor intrusion concerns for off-site locations. Note that toluene, xylenes, and ethylbenzene were detected at MW-18 during the fall sampling event; these have not previously been detected at this location. The concentrations of these constituents at this well will be tracked closely in the future to determine if this is an anomaly or a trend.

During the November 2022 sampling event, Arcadis noted that the former Volvo service center was currently being used as additional office space by Walter Pratt & Sons. Arcadis will continue to track property use and groundwater results in future annual reports.

4.6.4 Dissolved Oxygen Field Data

Dissolved oxygen data collected during the 2022 reporting period is shown in Table 4. The results indicate that site groundwater is strongly to moderately reducing and will support ongoing CVOC ERD treatment. The depletion of oxygen is observed across the site in groundwater samples as the monitoring wells reach stabilization. Dissolved oxygen off site ranged from 0.84 to 5.51 mg/L and 0.64 to 1.11 mg/L during the spring and fall sampling events, respectively. Dissolved oxygen on site ranged from 1.01 mg/L to 2.25 mg/L and 0.24 to 0.76 mg/L during the spring and fall sampling events, respectively. Depleted dissolved oxygen concentrations in areas targeted by carbon substrate injections indicates anaerobic conditions favorable to ERD.

4.6.5 Summary

The following observations can be made based on data collected since submittal of the 2021 CMI Annual Report (Arcadis 2022):

- ERD was sustained along the property boundary and additional CVOC source areas targeted during remedial optimization activities since 2017. Indications of successful ERD following the 2020 injection event were

observed during the reporting period (e.g., MW-B1 and MW-24 as described in Section 4.6.3.2.1, MW-25 as described in Section 4.6.3.2.2).

- Remedial optimization activities since 2017 have resulted in significant CVOC mass reduction in deeper mass flux areas (e.g., MW-23 and MW-24 as described in Section 4.6.3.2.1, MW-A1 as described in Section 4.6.3.2.2).
- Additional carbon substrate delivery remains a recommendation in the shallow mass flux zone to facilitate complete remediation of site CVOCs, consistent with previous findings.
- There is limited evidence that sustained ERD is occurring off site resulting from remedial optimization activities since 2017. This is primarily exhibited at MW-16 which had decreasing daughter product concentrations following these injection events, potentially the result of deeper on-site source zone treatment and related reduced mass flux from these areas. However, the continued presence of CVOCs indicate that these off-site wells are impacted by both the shallow and deep mass flux zones.
- Wells downgradient of the northern IRZ (e.g., IMP-3, IP-1, and MW-18) did not exhibit significant influence from shallow injections (2010 to 2015) or deeper remedial optimization activities (2017 to present). B-Line IRZ monitoring well results (e.g., MW-23, MW-24, MW-B1) following remedial optimization activities indicate successful ERD because of carbon substrate delivery to the deeper source areas and mass flux zones. This indicates that the clean-water front resulting from upgradient treatment has not reached these downgradient wells and/or these downgradient wells may not be significantly connected to the deeper mass flux zone. The lack of response at off-site downgradient wells to historical shallow injections may also be attributed to ineffective shallow carbon substrate delivery.
- The presence of dechlorination daughter and/or end products at areas that have not been influenced by ERD treatment suggests that natural attenuation is occurring at or upgradient of these locations with other organic compounds potentially served as electron donors (e.g., BTEX).

5 Periodic Review Report: Engineering and Institutional Controls

As described in the CMI Work Plan (Arcadis 2010) and the Statement of Basis for Proposed Remedy Selection (USEPA 2009), Ashland is responsible for institutional controls at the site including maintaining perimeter control and tracking surface covers (building slabs and asphalt pavement). The details related to this responsibility are identified in the Periodic Review Report (PRR) section of the Draft Site Management Plan (SMP; Arcadis 2017) submitted to USEPA for approval on January 31, 2017. A revised SMP will be submitted for approval in 2023 now that ERD optimization has been completed. The revised SMP will include the Environmental Easement for the site once it is finalized and recorded.

Arcadis performs annual reviews of these institutional controls as part of the semiannual monitoring events. Conditions are similar to those documented in Appendix C of the 2021 CMI Annual Report (Arcadis 2022). Appendix C contains the site inspection log completed in November, as well as a photo log. As requested by the NYSDEC, an Institutional and Engineering Controls Certification Form is provided in Appendix D and signed by Ashland.

In 2022, Ashland coordinated with their subcontractor (The Davey Tree Expert Company) to maintain the vegetation along the fence line and to clean up some of the overgrown areas within the site. On-site vegetation maintenance will continue in 2023. There were no observations of new graffiti on site. The fence surrounding the site generally remained in good condition, and in the fall of 2022, repairs were made to the section along South Street, which was noted in 2021 to have some deficiencies. Repairs to the fence and the surrounding area were made to improve the area of the deficiencies noted below:

- Rainwater runoff and debris from off site has been observed to be flooding certain areas on-site causing minor erosion and leaving mud and debris on site. It's our understanding that the City of Rensselaer has applied for a grant to replace the storm sewer culvert under the road adjacent to the site and grant approval is pending. This work is expected to improve flooding on site. In the fall of 2022, the debris was removed in the areas on site and along the fence line.
- The rainwater runoff and debris from off site is causing some undermining and fence damage along South Street. Ashland coordinated with a subcontractor to repair the fence and fix the undermined areas for the time being, though until the flooding issue is fixed, undermining and debris buildup is expected to continue.

6 Conclusions, Recommendations, and Schedule

Based on the data collected to date, the ERD injection remedy at the site continues to maintain an IRZ along the western site boundary to address potential off-site migration of CVOCs in groundwater.

Performance monitoring data collected during the reporting period indicates that carbon substrate in areas targeted during the 2020 injection event was successfully replenished and does not yet require additional injections at this time. The data indicates successful ERD resulting from the 2020 injection, particularly in MW-A1, MW-B1, MW-23, MW-24, and MW-25. The results indicate that ERD effectiveness has increased significantly in deeper source zones and mass flux pathways.

Shallow carbon substrate delivery has not occurred since 2016, as efforts since 2017 have been focused largely on evaluation and treatment of deeper mass flux zones identified during 2017 site characterization activities. Performance monitoring data collected since the 2017 ERD system optimization indicate that deeper injection events yield successful treatment; however, a combination of continued deep injections and carbon substrate delivery to the shallow subsurface is likely necessary to meet project objectives.

Arcadis is evaluating the best option to provide a long-term solution to delivery of carbon to the shallow subsurface without the installation of additional injection wells in this interval. The shallow injection wells previously used at the site were largely inefficient means of delivering carbon substrate to the subsurface due to low relative permeability in the shallow subsurface. The previously proposed mulch PRB installation (Arcadis 2020) has been postponed while Ashland and Arcadis evaluate potential alternative implementation strategies that would make the mulch PRB more cost effective to address the shallow mass flux zone along the site boundary and provide long-term carbon substrate delivery to the shallow subsurface. Results of this evaluation and a modified implementation approach are expected to be reported to NYSDEC in 2023.

Semiannual groundwater monitoring will be conducted in 2023 in accordance with the monitoring schedules and methodology included in this 2022 CMI Annual Report.

Arcadis and Ashland will continue to review remedy effectiveness and delivery system optimization and will communicate any recommended changes to the Agencies (NYSDEC, USEPA, and NYSDOH) prior to any potential future injection events.

7 References

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Arcadis. 2020. Mulch Permeable Reactive Barrier Installation Work Plan. August 25.

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Tables

Table 1

IRZ Injection Summary (2010 - 2015)

2022 Corrective Measure Implementation Annual Progress Report

Ashland Inc.

130 South Street, Rensselaer, New York

	Location ID	Cumulative Volume (gallons)	Average Injection Rate (gpm)	Cumulative Volume (gallons)	Average Injection Rate (gpm)	Cumulative Volume (gallons)	Average Injection Rate (gpm)
Molasses Injections	**Southern IRZ**	**October 2010**		**January 2011-March 2011**		**July 2011-August 2011**	
	IW-A2	201	0.2	773	0.3	940	0.2
	IW-A3	469	0.5	1,209	0.5	1,019	0.3
	IW-A5	477	0.6	736	0.4	1,035	0.3
	IW-A6	980	1.2	1,670	0.9	1,064	0.3
	IW-A7	992	1.1	759	0.3	1,120	0.3
	Subtotal	3,100	--	5,100	--	5,200	--
	Average	624	0.7	1,030	0.5	1,036	0.3
	Northern IRZ	**October 2010**		**January 2011-March 2011**		**July 2011-August 2011**	
	IW-B1	12	0.04	283	0.2	988	0.03
	IW-B2	372	1.2	389	0.2	1,105	0.05
	IW-B3	339	1.3	441	0.2	1,011	0.03
	IW-B4	194	0.6	286	0.1	560	0.02
	IW-B5	699	2.3	1,614	1.2	1,632	0.07
	Subtotal	1,600	--	3,000	--	5,300	--
	Average	323	1.1	603	0.4	1,059	0.04

	Location ID	Cumulative Volume (gallons)	Average Injection Rate (gpm)	Cumulative Volume (gallons)	Average Injection Rate (gpm)	Cumulative Volume (gallons)	Average Injection Rate (gpm)
EVO Injections	**Southern IRZ**	**October 2011-December 2011**		**July 2013-October 2013**		**September 2015-November 2015**	
	IW-A2	1,306	0.2	1,305	0.2	736	0.06
	IW-A3	1,309	0.3	1,310	0.3	1,325	0.60
	IW-A5	1,320	0.3	1,368	0.3	1,085	0.12
	IW-A6	1,300	0.2	1,363	0.4	1,029	0.12
	IW-A7	1,312	0.2	1,305	0.2	374	0.04
	Subtotal	6,500	--	6,700	--	4,500	--
	Average	1,309	0.3	1,330	0.3	910	0.2
	Northern IRZ	**October 2011-December 2011**		**July 2013-October 2013**		**September 2015-January 2016**	
	IW-B1	690	0.02	25	0.003	275	0.003
	IW-B2	1,955	0.21	1,720	0.05	1,275	0.02
	IW-B3	1,285	0.04	735	0.01	975	0.02
	IW-B4	705	0.02	1,330	0.05	633	0.01
	IW-B5	2,275	0.22	1,800	0.07	846	0.01
	Subtotal	6,900	--	5,600	--	4,000	--
	Average	1,382	0.10	1,122	0.04	801	0.01

NOTES:
EVO = emulsified vegetable oil.
gpm = gallons per minute.
IRZ = in-situ reactive zone.
-- = not applicable.

Table 2a

IRZ Injection Summary (2017-2020)

2022 Corrective Measure Implementation Annual Progress Report

Ashland Inc.

130 South Street, Rensselaer, New York

	Location ID	Cumulative Volume (gallons)*	Average Injection Rate (gpm)*		Cumulative Volume (gallons)*	Average Injection Rate (gpm)*	Cumulative Volume (gallons)**	Average Injection Rate (gpm)**
Molasses Injections	Southern Source Zone	November 2017		EVO Injections	October 2018-December 2018		September 2020-October 2020	
	IW-A08	--	--		3,629	0.2	3,605	0.4
	IW-A09	--	--		4,524	0.9	4,605	0.6
	IW-A10	--	--		95	0.1	--	--
	IW-A11	--	--		5,530	2.4	5,647	3.1
	IW-A12	--	--		5,751	1.0	5,938	1.2
	IW-A13	--	--		3,515	1.3	3,748	1.0
	IW-A14	--	--		4,016	0.4	2,040	0.4
	MW-22	5,767	1.2		3,531	0.7	1,632	0.4
	Subtotal:	5,800	--		30,600	--	27,200	--
	Average:	5,767	1.2		3,824	0.9	3,888	1.0
	Northern Source Zone	November 2017			October 2018-December 2018		September 2020-October 2020	
	IW-B06	--	--		1,135	0.2	1,815	0.2
	IW-B07	--	--		2,553	0.4	807	0.1
	IW-B08	--	--		1,996	0.3	2,063	0.3
	IW-B09	--	--		4,734	0.5	2,025	0.3
	IW-B10	--	--		3,706	0.3	3,480	0.5
	IW-B11	--	--		3,242	0.5	3,659	0.3
	IW-B12	--	--		4,055	0.5	2,349	0.4
	IW-B13	--	--		5,051	0.9	5,069	--
	IW-B14	--	--		4,950	1.2	5,480	--
	IW-B15	--	--		4,911	1.7	5,069	--
	MW-23	1,162	0.6		--[a]	--[a]	--[a]	--[a]
	MW-24	3,320	0.7		--[a]	--[a]	--[a]	--[a]
	Subtotal:	4,500	--		36,300	--	31,800	--
	Average:	2,241	0.6		3,633	0.7	3,182	0.3

NOTES:

[a] Monitoring wells MW-23 and MW-24 used for monitoring during 2018 and 2020 injection events.

[b] Significant daylighting was observed during the 2018 injection event, potentially due to a failed well seal. IW-B10 was taken offline.

[c] IW-A10 was deemed inoperable during the 2018 injection event and was not utilized during the 2020 injection event.

EVO = emulsified vegetable oil

gpm = gallons per minute

* = Based on injection flow rate measured at wellhead (A-line) or changes of tank volumes vs. time (B-line).

* = Average injection rate listed only for flow from injection trailer. Flow rate during injection via gravity was not measured. Wells that do not have a flow rate listed were only injected via gravity.

-- = not available

Table 2b

DPT Injection Summary (2020)

2022 Corrective Measure Implementation Annual Progress Report

Ashland Inc.

130 South Street, Rensselaer, New York

DPT Injections

Location ID	Interval (ft bgs)	Cumulative Volume (gallons)*	Average Injection Rate (gpm)*
Southern Source Zone		**September 2020-October 2020**	
DPT-01	12 - 16	588	0.5
DPT-01	16 - 20	678	1.2
DPT-02	12 - 16	600	0.6
DPT-02	16 - 20	490	1.1
DPT-03	17 - 21	573	0.6
DPT-03	21 - 25	456	1.1
DPT-04	17 - 21	587	1.2
DPT-04	21 - 25	601	1.2
DPT-05	18 - 22	612	0.5
DPT-05	22 - 26	580	1.1
	Subtotal:	5,800	--
	Average:	576	0.9
Northern Source Zone		**September 2020-October 2020**	
DPT-06	20 - 24	90	0.6
DPT-06	24 - 28	1	0.2
DPT-07	14 - 18	588	1.7
DPT-07	18 - 22	588	0.7
DPT-07	22 - 26	603	0.7
DPT-08	10 - 14	341	0.6
DPT-08	14 - 18	588	1.5
DPT-08	18 - 22	588	1.5
DPT-08	22 - 26	582	1.1
DPT-08	26 - 30	791	0.6
DPT-09	14 - 18	72	1.7
DPT-09	18 - 22	869	1.5
DPT-09	22 - 26	844	1.2
DPT-09	26 - 30	762	2.6
DPT-10[a]	13 - 17	--	--
DPT-10[a]	17 - 21	--	--
DPT-10[a]	21 - 25	--	--
DPT-11	06 - 10	585	1.1
DPT-11	10 - 14	588	2.9
DPT-11	14 - 18	588	4.0
DPT-11	18 - 22	588	4.0
DPT-11	22 - 26	588	3.5
DPT-12	13 - 17	588	2.0
DPT-12	17 - 21	618	2.5
DPT-12	21 - 25	608	3.0
	Subtotal:	12,100	--
	Average:	548	1.8
	Total:	17,900	--

NOTES:

[a] - proposed injection point DPT-10 was removed from the scope of work due to field conditions.

DPT = direct push technology

gpm = gallons per minute

-- = not applicable.

Table 3
Sample Summary and IRZ Performance and BTEX Monitoring (2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Parameter / Well IDs	Semi-Annual (2 times/year)				Water Level	Field Parameters
	VOCs	Ethane/Ethene	Methane	TOC	--	--
IP-1	X	X	X	X	X	X
IMP-3	X			X	X	X
IW-A2	X			X	X	X
IW-B3	X			X	X	X
MW-A1	X	X	X	X	X	X
MW-B1	X	X	X	X	X	X
MW-13	X			X	X	X
MW-16	X			X	X	X
MW-17	X			X	X	X
MW-18	X	X	X	X	X	X
MW-19	X	X	X	X	X	X
MW-20	X			X	X	X
MW-21	X			X	X	X
MW-23	X	X	X	X	X	X
MW-24	X	X	X	X	X	X
MW-25	X	X	X	X	X	X

NOTES:

1. Samples will be analyzed by Test America (TA) located in Buffalo, New York.
2. Field parameters include pH, dissolved oxygen,oxidation-reduction potential, temperature, conductivity, and turbidity.

X = indicates sample to be collected.

TOC = total organic carbon.

VOC = volatile organic compounds.

Table 4
Field Parameters After Stabilization was Achieved (2016-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
IMP-3	06/30/16	1.75	0.99	-154	7.75	17.96	3.8
	12/20/16	1.13	4.38	0.0	7.05	10.75	0.0
	05/15/17	1.71	0.00	25	7.37	10.60	22.8
	10/30/17	1.72	1.69	-61	6.49	15.45	37.6
	04/09/18	0.985	1.56	-15	7.31	10.56	30.9
	10/03/18	1.60	0.57	-119	6.97	16.70	0.0
	02/19/19	1.58	14.91	-181	7.29	6.60	606
	05/07/19	1.84	0.57	-92	6.86	11.91	42.0
	08/07/19	1.68	0.68	-56	7.31	17.47	9.9
	11/07/19	1.83	0.45	-34	6.98	13.59	58.7
	04/07/20	1.79	0.71	-95	6.96	12.76	73.1
	11/12/20	0.929	2.54	-46	6.94	14.32	3.5
	04/15/21	1.67	0.0	-83	6.97	11.56	5.7
	12/10/21	1.57	0.0	-70	7.11	12.41	0.7
	04/12/22	1.45	1.01	-69	6.67	9.50	10.6
	11/02/22	1.70	0.64	-71	7.08	16.24	7.8
IP-1	06/28/16	1.14	0.0	-119	5.36	16.42	13.1
	12/20/16	1.14	0.55	-84	6.40	9.39	26.9
	05/15/17	1.00	0.00	-32	7.30	11.03	108.0
	10/30/17	1.10	3.60	-109	6.83	14.20	11.6
	04/09/18	0.775	0.00	-115	7.33	9.00	102
	10/03/18	0.856	0.00	-181	6.99	64.4	0.0
	02/19/19	1.03	15.39	-216	7.13	5.32	973
	05/07/19	1.19	2.65	-127	6.56	10.85	35.8
	08/07/19	0.965	0.52	-113	7.20	18.83	8.8
	11/07/19	1.02	3.63	-94	6.86	13.75	31.7
	04/07/20	0.999	2.22	-151	6.54	10.79	71.7
	11/12/20	0.560	6.21	-109	6.98	14.68	34.3
	04/15/21	0.975	0.0	-126	6.92	10.10	23.1
	12/10/21	0.801	0.0	-102	7.08	11.13	11.1
	04/12/22	0.885	0.84	-110	6.66	9.68	96.9
	11/02/22	0.902	0.90	-109	7.15	17.68	16.2
IW-A2	06/30/16	6.81	0.38	-215	7.31	19.90	537
	12/21/16	3.97	1.30	-207	6.88	9.00	363
	05/16/17	3.25	0.00	-83	6.76	18.60	588
	10/31/17	4.16	2.66	-113	6.80	14.25	446
	04/10/18	3.31	0.00	-161	7.19	11.44	149
	10/04/18	3.75	0.69	-193	6.97	15.38	101
	05/08/19	3.21	3.20	-262	6.94	18.05	129
	11/07/19	3.76	0.17	-133	6.71	10.89	199
	04/08/20	3.55	0.00	-177	6.94	13.37	40.0
	11/12/20	3.32	0.55	-140	6.81	11.91	12.0
	04/15/21	3.02	0.0	-129	6.44	11.77	30.6
	11/22/21	3.05	4.25	-168	6.75	13.88	20.1
	04/12/22	1.99	1.79	-152	6.81	15.41	25.1
	11/03/22	2.64	0.54	-172	6.95	14.00	21.2
IW-B3	06/30/16	2.37	3.33	-57	7.70	19.68	187
	12/21/16	3.09	0.70	-156	6.91	10.11	324
	05/16/17	1.43	0.00	-8	6.31	11.95	399
	10/31/17	2.82	1.99	-133	6.71	11.92	324
	04/10/18	2.94	0.00	-122	7.32	8.49	153
	10/03/18	2.44	0.49	-173	6.81	18.92	195
	05/08/19	2.04	5.48	-234	6.74	10.97	92.5
	11/06/19	2.21	0.37	-136	6.76	14.10	30.9
	04/07/20	1.70	0.43	-101	6.79	12.31	49.9
	11/13/20	1.88	7.38	-99	6.72	10.59	11.5
	04/14/21	1.61	0.0	-126	6.66	11.59	19.7
	11/22/21	1.76	0.91	-157	6.51	12.29	21.0
	04/13/22	1.53	1.95	-120	6.73	9.78	26.0
	11/03/22	1.07	0.51	-142	6.74	13.99	2.5

Table 4
Field Parameters After Stabilization was Achieved (2016-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-13	06/28/16	0.718	0.53	-74	7.78	15.76	0.0
	12/20/16	0.688	2.30	54	8.01	7.76	0.0
	05/16/17	0.459	0.00	121	7.40	12.87	0.0
	10/31/17	0.745	1.06	-33	6.95	13.61	0.0
	04/10/18	0.572	0.00	64	7.95	6.72	17.7
	10/04/18	0.580	0.00	-95	7.52	58.5	0.0
	05/07/19	0.877	6.45	-139	7.32	11.08	9.19
	11/06/19	0.712	1.83	54	7.42	12.12	6.60
	04/07/20	0.816	0.50	-87	7.80	10.87	0
	11/11/20	0.460	2.83	40	7.89	13.65	0.9
	04/14/21	0.633	0.0	20	7.05	15.15	0.0
	11/22/21	0.733	5.97	191	7.35	13.01	1.2
	04/12/22	0.801	2.14	14	7.31	10.19	0.1
	11/02/22	0.763	0.67	-48	7.31	13.82	0.0
MW-15	11/06/19	1.29	0.94	-93	7.06	12.55	32.2
	04/07/20	1.15	0.00	-124	7.26	13.15	1.6
	11/12/20	0.912	3.04	-69	6.72	11.37	1.9
	04/15/21	1.02	0.0	-88	6.68	13.30	0.0
	11/22/21	1.21	3.92	-116	6.93	14.24	9.1
	04/12/22	NS	NS	NS	NS	NS	NS
MW-16	06/30/16	1.21	0.61	6	7.59	18.97	0.8
	12/20/16	1.64	4.71	-58	7.40	11.26	0.0
	05/15/17	0.951	0.00	205	7.10	15.39	5.8
	10/30/17	1.11	6.99	-17	7.20	14.36	22.9
	04/09/18	1.12	0.47	144	7.71	9.81	10.1
	10/03/18	1.22	0.63	-39	7.14	16.56	0.0
	02/19/19	1.53	13.88	-98	7.53	8.10	46.1
	05/07/19	1.87	0.66	-49	7.13	10.22	3.77
	08/08/19	1.72	0.14	-59	7.55	17.70	0.0
	11/07/19	1.86	0.00	-64	7.01	12.57	2.84
	04/07/20	1.81	2.52	-20	7.57	11.51	0
	11/11/20	0.888	2.05	-24	7.08	15.81	0.0
	04/15/21	1.61	0.0	26	7.06	10.73	0.0
	12/10/21	1.69	1.93	16	7.53	12.09	0.8
	04/12/22	1.51	0.86	91	6.73	9.34	1.0
	11/02/22	1.64	1.11	-45	7.22	16.23	0.0
MW-17	06/28/16	1.92	8.18	-84	4.95	19.99	49.0
	12/21/16	NS	NS	NS	NS	NS	NS
	05/15/17	1.68	0.00	-14	7.04	14.26	25.7
	10/30/17	1.48	2.46	-79	6.99	17.10	20.4
	04/09/18	2.05	0.00	-60	7.72	11.91	22.1
	10/03/18	1.65	0.00	-168	7.06	65.0	0.0
	05/08/19	1.25	5.68	-103	7.07	11.88	8.71
	11/06/19	1.91	2.83	-169	7.19	16.85	53.1
	04/07/20	1.78	0.98	-157	7.39	12.72	23.9
	11/12/20	1.39	3.13	-120	7.10	17.18	27.9
	04/15/21	1.47	0.0	-96	7.02	12.76	1.1
	11/22/21	1.54	3.91	-132	6.93	16.49	14.1
	04/12/22	1.08	0.91	-38	6.75	11.22	14.2
	11/02/22	1.97	0.69	-201	7.06	17.65	8.4
MW-18	06/28/16	1.13	0.0	-89	5.66	17.01	90.7
	12/20/16	1.23	0.33	-57	6.66	10.40	6.0
	05/15/17	0.686	0.00	14	6.91	12.62	114
	10/30/17	1.19	2.36	-60	6.82	13.50	0.0
	04/09/18	0.770	0.00	21	7.33	10.02	28.7
	10/03/18	0.898	0.00	-120	6.88	60.7	0.0
	02/19/19	1.03	14.88	-122	6.82	6.80	412
	05/07/19	1.22	0.65	-100	6.85	12.29	11.1
	08/07/19	0.988	0.55	-52	7.44	19.20	4.5
	11/07/19	1.27	1.10	-39	6.87	11.08	8.45
	04/07/20	1.14	0.55	-56	6.99	14.87	44.8
	11/12/20	0.602	2.98	-42	6.91	14.20	42.3
	04/15/21	1.12	0.0	-38	6.83	10.38	0.0
	12/10/21	0.993	0.0	28	6.91	9.94	0
	04/12/22	1.06	0.85	-10	6.61	10.30	41.8
	11/02/22	1.16	0.91	-57	7.07	15.97	0.02

Table 4
Field Parameters After Stabilization was Achieved (2016-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-19	06/30/16	0.718	0.41	-206	7.33	14.65	13.1
	12/20/16	1.09	0.32	-56	6.80	7.80	19.0
	05/16/17	0.688	0.00	-62	7.16	15.05	7.0
	10/31/17	0.836	5.42	-99	6.62	15.36	10.4
	04/10/18	0.886	0.00	-131	7.43	6.11	30.1
	10/04/18	0.50	1.63	-99	7.22	17.81	36.5
	02/19/19	0.65	5.50	-28	8.17	--	161
	05/08/19	1.52	0.90	-190	7.59	10.52	6.13
	08/08/19	1.32	0.33	-136	7.50	19.80	0.0
	11/06/19	1.37	0.20	-96	7.07	13.31	0.98
	04/08/20	1.40	1.67	-182	6.88	7.90	2.2
	11/12/20	0.810	0.60	-120	6.86	12.75	4.2
	04/15/21	1.680	0.0	-138	7.08	9.10	0.0
	11/23/21	1.50	0.60	-98	6.70	11.79	21.2
	04/12/22	1.61	2.05	-171	7.11	9.93	11.4
	11/03/22	1.27	0.24	-109	7.17	14.88	5.4
MW-20	06/30/16	1.15	0.45	-193	7.57	17.62	0.0
	12/21/16	1.53	2.22	-48	7.29	8.08	1.6
	05/16/17	0.776	0.00	94	7.11	11.61	0.0
	10/31/17	1.21	1.36	-76	5.84	14.97	9.92
	04/10/18	0.799	0.00	-46	7.28	6.77	20.9
	10/04/18	1.00	0.00	-111	6.89	62.8	0.0
	05/07/19	1.07	7.10	-179	7.05	10.79	5.98
	11/06/19	0.983	0.80	-29	7.01	12.53	14.8
	04/07/20	0.928	0.00	-72	7.07	12.20	0.0
	11/12/20	0.805	0.70	-57	6.93	11.78	2.4
	04/15/21	0.950	0.0	-41	6.62	10.41	0.0
	11/23/21	0.970	5.73	-48	6.88	12.21	2.9
	04/12/22	0.425	1.50	-12	6.87	15.5	1.8
	11/02/22	1.08	0.76	-44	7.18	14.63	1.4
MW-21	06/30/16	4.71	6.08	21	7.69	18.58	17.4
	12/20/16	1.80	1.49	-64	6.66	9.48	11.5
	05/15/17	0.819	6.30	327	7.50	13.44	9.9
	10/30/17	2.02	4.13	-58	6.98	14.14	14.6
	04/09/18	1.00	1.06	-63	7.32	8.81	20.8
	10/03/18	2.35	0.47	-169	6.90	15.48	0.0
	02/19/19	1.18	13.49	-100	7.32	6.22	780
	05/07/19	1.58	1.13	-65	6.91	10.40	10.3
	08/08/19	2.64	0.08	-97	7.27	17.28	0.0
	11/07/19	2.17	1.68	34	6.74	12.51	8.48
	04/07/20	1.95	6.02	40	7.35	14.37	8.2
	11/11/20	1.75	3.53	-62	6.82	15.72	0.0
	04/15/21	1.82	0.3	31	6.95	9.90	0.2
	11/22/21	1.63	5.37	-66	6.76	13.96	5.3
	04/12/22	1.36	5.51	166	6.87	9.95	3.5
	11/02/22	2.00	0.75	-76	6.81	14.58	1.9
MW-22	10/31/17	1.75	1.47	-69	6.81	15.48	26.9
	04/10/18	3.19	0.00	-106	6.39	7.56	73.3

Table 4
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-23	10/31/17	3.10	10.67	-43	6.99	10.06	6.2
	04/10/18	3.19	0.00	-175	7.30	10.47	20.8
	02/19/19	1.48	11.13	-231	7.18	9.77	73.0
	05/08/19	1.53	0.77	-149	7.26	10.57	7.95
	08/08/19	1.28	1.97	-105	8.20	19.85	29.1
	11/06/19	1.37	0.00	-64	6.82	14.69	79.0
	04/07/20	1.30	0.09	-131	7.01	13.10	6.7
	11/12/20	1.00	0.74	-98	6.71	12.12	14.0
	04/14/21	1.55	0.0	-143	6.36	12.25	0.0
	11/22/21	1.59	0.75	-88	6.46	13.86	11.2
	04/13/22	1.28	2.25	-50	6.62	10.33	4.6
	11/03/22	1.23	0.55	-125	6.89	13.59	1.4
MW-24	10/31/17	1.74	3.85	41	6.85	13.51	29.6
	04/10/18	1.31	0.00	-220	7.44	10.50	24.9
	02/19/19	1.38	7.84	-205	7.11	11.40	206
	05/08/19	2.04	2.22	-275	7.22	13.52	52.1
	08/08/19	1.92	1.59	-107	8.04	19.01	38.2
	11/06/19	2.14	0.54	-130	6.85	15.01	14.7
	04/08/20	1.91	0.00	-116	6.81	11.47	0.3
	11/13/20	2.25	0.72	19	5.32	13.22	0
	04/15/21	1.91	0.0	3	5.25	12.10	31.3
	11/22/21	2.65	0.62	-111	6.58	15.78	69.0
	04/13/22	2.64	1.07	-91	6.40	10.43	26.3
	11/02/22	3.31	0.55	-137	6.96	17.73	28.0
MW-25	10/04/18	1.88	0.00	-43	6.75	64.7	0.0
	02/21/19	2.12	8.24	-49	6.53	8.94	309
	05/08/19	2.14	0.49	-100	7.16	11.67	4.08
	08/07/19	2.03	7.57	-31	7.17	20.16	0.0
	11/06/19	1.97	0.71	-70	6.76	16.31	8.78
	04/07/20	1.97	0.00	-56	7.01	11.79	8.6
	11/11/20	1.58	0.81	-53	6.76	15.15	9.0
	04/15/21	2.00	0.0	-90	6.41	10.93	4.9
	11/23/21	2.21	4.03	-101	6.75	16.03	1.1
	04/12/22	2.06	1.88	-82	6.77	10.69	6.0
	11/03/22	2.15	0.44	-107	6.94	17.06	0.0
MW-A1	06/30/16	1.78	0.65	-162	7.03	15.01	255
	12/20/16	1.77	0.95	-121	6.81	7.95	10.6
	05/16/17	1.04	0.00	-48	6.69	16.27	26.3
	10/31/17	1.50	1.36	-88	6.31	14.82	10.5
	04/10/18	1.03	1.50	-93	7.28	8.21	23.3
	10/04/18	1.33	0.57	-115	6.83	16.08	0.0
	05/08/19	1.66	4.20	-182	6.77	16.61	5.28
	11/06/19	1.75	0.67	-71	6.65	14.04	35.2
	04/08/20	1.94	0.87	-135	6.47	8.21	4.9
	11/11/20	1.78	0.76	-74	6.90	14.20	3.0
	04/15/21	1.53	0.0	-68	6.47	10.99	1.7
	11/22/21	1.79	0.53	-68	6.46	12.31	11.7
	04/12/22	1.77	1.94	-104	6.78	10.48	8.3
	11/03/22	1.80	0.37	-108	6.98	15.58	0.0

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Ashland Inc.
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Well ID	Date Sampled	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH (SU)	Temperature (°C)	Turbidity (NTUs)
MW-B1	06/28/16	2.16	0.37	-204	7.85	16.23	30.1
	12/21/16	2.20	0.71	-80	6.77	11.69	2.8
	05/16/17	2.09	0.00	4	6.68	11.75	2
	10/30/17	2.40	2.29	-57	6.68	14.06	5.4
	04/10/18	2.71	0.00	-154	7.32	8.41	5.9
	10/03/18	2.22	0.00	-159	6.64	61.9	0.0
	05/07/19	2.73	5.31	-187	6.55	10.79	38.8
	11/06/19	2.34	0.00	-32	6.73	14.74	2.00
	04/08/20	2.55	0.00	-79	6.76	10.18	0.0
	11/12/20	2.05	0.65	-85	6.20	12.09	0
	04/15/21	2.21	0.0	-101	6.60	10.50	38
	11/22/21	2.13	0.60	-98	6.63	13.45	8.1
	04/13/22	2.40	1.01	-78	6.55	8.93	6.3
	11/03/22	2.44	0.68	-82	7.06	13.88	1.6
MW-1	12/20/16	1.63	5.86	12	7.39	8.86	0.0
	10/30/17	1.37	6.65	100	7.06	16.12	6.5
	12/20/16	0.801	0.44	3	6.59	8.20	1.5
	04/10/18	1.26	1.12	-22	7.84	6.83	9.3

NOTES:
°C = degrees Celsius
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = millivolts
NS = not sampled
NTU = nephelometric turbidity unit
SU = standard unit

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-1	28.98	11/15/1999	8.47	20.51
		5/24/2000	5.78	23.20
		11/29/2000	6.73	22.25
		7/6/2001	NM	NM
		11/7/2001	8.07	20.91
		5/21/2002	6.30	22.68
		11/12/2002	6.79	22.19
		4/21/2003	7.03	21.95
		7/14/2003	6.61	22.37
		10/28/2003	7.08	21.90
		4/6/2004	6.54	22.44
		10/12/2004	8.49	20.49
		4/13/2005	7.28	21.70
		10/4/2005	9.65	19.33
		5/2/2006	7.29	21.69
		10/3/2006	6.51	22.47
		4/9/2007	6.75	22.23
		9/11/2007	6.58	22.40
		4/9/2008	5.34	23.64
		9/15/2008	5.55	23.43
		4/6/2009	5.78	23.20
		9/23/2009	7.32	21.66
		4/15/2010	5.91	23.07
		3/10/2011	4.37	24.61
		8/8/2011	7.15	21.83
		10/13/2011	5.14	23.84
		1/25/2012	6.31	22.67
		3/29/2012	6.70	22.28
		7/3/2012	7.30	21.68
		3/21/2013	5.25	23.73
		11/20/2013	10.22	18.76
		10/14/2014	9.26	19.72
		4/22/2015	6.24	22.74
		1/27/2016	8.20	20.78
		6/28/2016	9.80	19.18
		12/19/2016	6.99	21.99
		5/15/2017	5.30	23.68
		10/30/2017	9.81	19.17
		4/10/2018	7.18	21.80
		10/3/2018	5.08	23.90
		5/7/2019	5.73	23.25
		11/6/2019	5.65	23.33
		4/7/2020	5.86	23.12
		11/11/2020	6.13	22.85
		4/14/2021	6.32	22.66
		11/22/2021	5.81	23.17
		4/12/2022	4.79	24.19
		11/2/2022	6.44	22.54

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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-3	24.27	11/15/1999	5.48	18.79
		5/24/2000	1.94	22.33
		11/29/2000	4.93	19.34
		7/6/2001	3.35	20.92
		11/7/2001	5.50	18.77
		5/21/2002	3.48	20.79
		11/12/2002	4.26	20.01
		4/21/2003	4.64	19.63
		7/14/2003	3.62	20.65
		10/28/2003	3.42	20.85
		4/6/2004	3.54	20.73
		10/12/2004	5.34	18.93
		4/13/2005	4.38	19.89
		10/5/2005	7.10	17.17
		5/2/2006	4.79	19.48
		10/3/2006	5.10	19.17
		4/9/2007	4.88	19.39
		9/11/2007	5.07	19.20
		4/9/2008	1.32	22.95
		9/15/2008	2.32	21.95
		4/6/2009	2.32	21.95
		9/23/2009	3.79	20.48
		4/15/2010	2.50	21.77
		3/10/2011*	--	--
		8/8/2011	3.96	20.31
		10/13/2011	1.42	22.85
		1/25/2012	3.06	21.21
		3/29/2012	3.41	20.86
		7/3/2012	3.54	20.73
		3/21/2013	1.70	22.57
		11/20/2013	3.35	20.92
		10/14/2014	6.20	18.07
		4/22/2015	4.45	19.82
		1/27/2016	4.88	19.39
		6/28/2016	6.05	18.22
		12/19/2016	5.29	18.98
		5/15/2017	2.20	22.07
		10/30/2017	6.24	18.03
		4/9/2018	4.29	19.98
		10/3/2018	3.29	20.98
		5/7/2019	3.64	20.63
		11/6/2019	3.68	20.59
		4/7/2020	3.64	20.63
		11/11/2020	4.83	19.44
		4/14/2021	4.60	19.67
		11/22/2021	3.91	20.36
		4/12/2022	2.55	21.72
		11/2/2022	4.58	19.69

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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-4	25.95	11/15/1999	8.61	17.34
		5/24/2000	4.79	21.16
		11/29/2000	7.39	18.56
		7/6/2001	5.68	20.27
		11/7/2001	8.71	17.24
		5/21/2002	7.15	18.80
		11/12/2002	7.45	18.50
		4/21/2003	8.41	17.54
		7/14/2003	6.95	19.00
		10/28/2003	7.55	18.40
		4/6/2004	7.06	18.89
		10/12/2004	8.55	17.40
		4/13/2005	7.51	18.44
		10/5/2005	10.86	15.09
		5/2/2006	6.90	19.05
		10/3/2006	5.84	20.11
		4/9/2007	7.30	18.65
		9/11/2007	6.61	19.34
		4/9/2008	5.58	20.37
		9/15/2008	6.37	19.58
		4/6/2009	6.23	19.72
		9/23/2009	7.33	18.62
		4/15/2010	5.50	20.45
		3/10/2011	4.58	21.37
		8/8/2011	7.41	18.54
		10/13/2011	4.66	21.29
		1/25/2012	6.20	19.75
		3/29/2012	6.45	19.50
		7/3/2012	9.51	16.44
		3/21/2013	5.65	20.30
		11/20/2013	10.55	15.40
		10/14/2014	10.50	15.45
		4/22/2015	7.62	18.33
		1/27/2016	8.63	17.32
		6/28/2016	NM	NM
		12/19/2016	6.91	19.04
		5/15/2017	4.54	21.41
		10/30/2017	7.41	18.54
		4/9/2018	7.40	18.55
		10/3/2018	3.79	22.16
		5/7/2019	6.27	19.68
		11/6/2019	6.32	19.63
		4/7/2020	6.11	19.84
		11/11/2020	7.08	18.87
		4/14/2021	6.74	19.21
		11/22/2021	5.53	20.42
		4/12/2022	3.83	22.12
		11/2/2022	6.48	19.47

Table 5
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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-9	27.18	11/15/1999	7.98	19.20
		5/24/2000	4.34	22.84
		11/29/2000	6.81	20.37
		7/6/2001	5.59	21.59
		11/7/2001	7.99	19.19
		5/21/2002	7.93	19.25
		11/12/2002	7.88	19.30
		4/21/2003	8.29	18.89
		7/14/2003	8.04	19.14
		10/28/2003	9.28	17.90
		4/6/2004	6.18	21.00
		10/12/2004	8.78	18.40
		4/13/2005	7.75	19.43
		10/5/2005	10.55	16.63
		5/2/2006	7.04	20.14
		10/3/2006	7.63	19.55
		4/9/2007	6.39	20.79
		9/11/2007	6.76	20.42
		4/9/2008	4.18	23.00
		9/15/2008	5.68	21.50
		4/6/2009	4.79	22.39
		9/23/2009	7.06	20.12
		4/15/2010	5.01	22.17
		3/10/2011	3.80	23.38
		8/8/2011	7.12	20.06
		10/13/2011	4.41	22.77
		1/25/2012	5.81	21.37
		3/29/2012	5.79	21.39
		7/3/2012	6.70	20.48
		3/21/2013	4.22	22.96
		11/20/2013	12.16	15.02
		10/14/2014	11.70	15.48
		4/22/2015	10.50	16.68
		1/27/2016	11.52	15.66
		6/28/2016	11.70	15.48
		12/19/2016	10.80	16.38
		5/15/2017	10.01	17.17
		10/30/2017	11.36	15.82
		4/9/2018	10.33	16.85
		10/3/2018	10.40	16.78
		5/7/2019	10.27	16.91
		11/6/2019	10.30	16.88
		4/7/2020	10.65	16.53
		11/11/2020	NM	NM
		4/14/2021	10.70	16.48
		11/22/2021	10.28	16.90
		4/12/2022	7.85	19.33
		11/2/2022	10.35	16.83

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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-10	26.34	11/15/1999	6.58	19.76
		5/24/2000	3.49	22.85
		11/29/2000	5.86	20.48
		7/6/2001	4.73	21.61
		11/7/2001	6.78	19.56
		5/21/2002	4.45	21.89
		11/12/2002	5.34	21.00
		4/21/2003	5.34	21.00
		7/14/2003	5.68	20.66
		10/28/2003	3.80	22.54
		4/6/2004	4.61	21.73
		10/12/2004	6.61	19.73
		4/13/2005	5.63	20.71
		10/4/2005	8.34	18.00
		5/2/2006	5.63	20.71
		10/3/2006	4.44	21.90
		4/9/2007	4.84	21.50
		9/11/2007	6.76	19.58
		4/9/2008	4.38	21.96
		9/15/2008	4.61	21.73
		4/6/2009	5.05	21.29
		9/23/2009	7.37	18.97
		4/15/2010	5.62	20.72
		3/10/2011	4.06	22.28
		8/8/2011	7.25	19.09
		10/13/2011	4.05	22.29
		1/25/2012	6.20	20.14
		3/29/2012	6.66	19.68
		7/3/2012	7.12	19.22
		3/21/2013	4.82	21.52
		11/20/2013	8.53	17.81
		10/14/2014	8.30	18.04
Obstruction at 4.72 feet bgs		4/22/2015	NM*	NM*
Damaged		1/27/2016	NM**	NM**
		6/28/2016	NM	NM
		12/19/2016	NM	NM
		5/15/2017	4.57	21.77
		10/30/2017	NM	NM
		4/9/2018	NM	NM
		10/3/2018	NM	NM
		5/7/2019	NM	NM
		11/6/2019	NM	NM
		4/7/2020	NM	NM
		11/11/2020	NM	NM
		4/14/2021	NM	NM
		5/27/2021	Abandoned	

Table 5
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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-11	25.16	11/15/1999	7.21	17.95
		5/24/2000	5.61	19.55
		11/29/2000	6.46	18.70
		7/6/2001	5.88	19.28
		11/7/2001	8.62	16.54
		5/21/2002	5.60	19.56
		11/12/2002	6.38	18.78
		4/21/2003	6.29	18.87
		7/14/2003	5.83	19.33
		10/28/2003	6.98	18.18
		4/6/2004	5.62	19.54
		10/12/2004	7.54	17.62
		4/13/2005	5.97	19.19
		10/4/2005	9.66	15.50
		5/2/2006	6.02	19.14
		10/3/2006	5.58	19.58
		4/9/2007	5.64	19.52
		9/11/2007	5.33	19.83
		4/9/2008	5.69	19.47
		9/15/2008	5.61	19.55
		4/6/2009	5.72	19.44
		9/23/2009	8.13	17.03
		4/15/2010	10.50	14.66
		3/10/2011**	NM	NM
		8/8/2011**	NM	NM
		10/13/2011**	NM	NM
		1/25/2012**	NM	NM
		3/29/2012**	NM	NM
		7/3/2012**	NM	NM
		3/21/2013	NM	NM
		11/20/2013	NM	NM
		10/14/2014	9.50	15.66
		4/22/2015	NM*	NM*
		1/27/2016	NM**	NM**
		6/28/2016	NM	NM
		12/19/2016	NM	NM
		5/15/2017	NM	NM
		10/30/2017	NM	NM
		4/9/2018	NM	NM
		10/3/2018	NM	NM
Damaged		5/7/2019	NM	NM
		11/6/2019	NM	NM
		4/7/2020	NM	NM
		11/11/2020	NM	NM
		4/14/2021	NM	NM
		12/10/2021	Abandoned	

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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-12S	23.12	11/15/1999	8.43	14.69
		5/24/2000	7.21	15.91
		11/29/2000	8.30	14.82
		7/6/2001	6.48	16.64
		11/7/2001	9.21	13.91
		5/21/2002	7.23	15.89
		11/12/2002	8.15	14.97
		4/21/2003	8.21	14.91
		7/14/2003	7.92	15.20
		10/28/2003	7.05	16.07
		4/6/2004	7.15	15.97
		10/12/2004	7.70	15.42
		4/13/2005	7.50	15.62
		10/4/2005	10.38	12.74
		5/2/2006	6.17	16.95
		10/3/2006	7.58	15.54
		4/9/2007	7.21	15.91
		9/11/2007	6.80	16.32
		4/9/2008	7.06	16.06
		9/15/2008	7.79	15.33
		4/6/2009	7.65	15.47
		9/23/2009	8.91	14.21
		4/15/2010	6.30	16.82
		3/10/2011	6.47	16.65
		8/8/2011	8.70	14.42
		10/13/2011	7.68	15.44
		1/25/2012	8.15	14.97
		3/29/2012	8.16	14.96
		7/3/2012	8.68	14.44
		3/21/2013	7.20	15.92
		11/20/2013	9.45	13.67
		10/14/2014	9.90	13.22
		4/22/2015	NM*	NM*
		1/27/2016	8.30	14.82
		6/28/2016	7.86	15.26
		12/19/2016	7.01	16.11
		5/15/2017	5.30	17.82
		10/30/2017	9.46	13.66
		4/9/2018	6.48	16.64
		10/3/2018	5.69	17.43
		5/7/2019	5.77	17.35
		11/6/2019	5.81	17.31
		4/7/2020	5.59	17.53
		11/11/2020	6.53	16.59
		4/14/2021	6.25	16.87
		12/10/2021	Abandoned	

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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-12D	24.08	11/15/1999	9.02	15.06
		5/24/2000	7.54	16.54
		11/29/2000	8.98	15.10
		7/6/2001	8.21	15.87
		11/7/2001	9.52	14.56
		5/21/2002	7.81	16.27
		11/12/2002	8.84	15.24
		4/21/2003	7.61	16.47
		7/14/2003	8.44	15.64
		10/28/2003	9.66	14.42
		4/6/2004	7.21	16.87
		10/12/2004	8.64	15.44
		4/13/2005	7.82	16.26
		10/4/2005	9.92	14.16
		5/2/2006	7.75	16.33
		10/3/2006	8.22	15.86
		4/9/2007	7.26	16.82
		9/11/2007	8.51	15.57
		4/9/2008	7.16	16.92
		9/15/2008	8.18	15.90
		4/6/2009	7.70	16.38
		9/23/2009	9.28	14.80
		4/15/2010	7.70	16.38
		3/10/2011	6.28	17.80
		8/8/2011	9.03	15.05
		10/13/2011	7.74	16.34
		1/25/2012	8.35	15.73
		3/29/2012	8.35	15.73
		7/3/2012	8.80	15.28
		3/21/2013	7.29	16.79
		11/20/2013	9.92	14.16
		10/14/2014	10.10	13.98
		4/22/2015	NM*	NM*
		1/27/2016	8.88	15.20
		6/28/2016	9.62	14.46
		12/19/2016	NM	NM
		5/15/2017	7.49	16.59
		10/30/2017	10.88	13.20
		4/9/2018	8.52	15.56
		10/3/2018	7.68	16.40
		5/7/2019	8.18	15.90
		11/6/2019	8.22	15.86
		4/7/2020	8.18	15.90
		11/11/2020	9.00	15.08
		4/14/2021	8.55	15.53
		12/10/2021	Abandoned	

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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-13	36.86	11/15/1999	3.83	33.03
		5/24/2000	3.89	32.97
		11/29/2000	4.51	32.35
		7/6/2001	3.49	33.37
		11/7/2001	4.75	32.11
		5/21/2002	3.04	33.82
		11/12/2002	3.54	33.32
		4/21/2003	3.33	33.53
		7/14/2003	3.42	33.44
		10/28/2003	3.88	32.98
		4/6/2004	2.67	34.19
		10/12/2004	3.32	33.54
		4/13/2005	2.73	34.13
		10/4/2005	4.24	32.62
		5/2/2006	2.87	33.99
		10/3/2006	3.19	33.67
		4/9/2007	2.72	34.14
		9/11/2007	3.07	33.79
		4/9/2008	2.63	34.23
		9/15/2008	3.25	33.61
		4/6/2009	3.59	33.27
		9/23/2009	4.31	32.55
		4/15/2010	2.90	33.96
		3/10/2011	2.00	34.86
		8/8/2011	3.45	33.41
		10/13/2011	2.91	33.95
		1/25/2012	2.92	33.94
		3/29/2012	2.78	34.08
		7/3/2012	4.12	32.74
		9/13/2012	3.52	33.34
		3/21/2013	2.79	34.07
		11/20/2013	4.16	32.70
		10/14/2014	4.70	32.16
		4/22/2015	3.30	33.56
		1/27/2016	3.13	33.73
		6/28/2016	4.58	32.28
		12/19/2016	3.79	33.07
		5/15/2017	2.59	34.27
		10/30/2017	5.00	31.86
		4/10/2018	2.91	33.95
		10/3/2018	2.36	34.50
		5/7/2019	2.86	34.00
		11/6/2019	2.89	33.97
		4/7/2020	2.88	33.98
		11/11/2020	3.69	33.17
		4/14/2021	3.03	33.83
		11/22/2021	2.37	34.49
		4/12/2022	2.10	34.76
		11/2/2022	3.73	33.13

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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-14	33.85	11/15/1999	7.11	26.74
		5/24/2000	6.41	27.44
		11/29/2000	7.17	26.68
		7/6/2001	6.93	26.92
		11/7/2001	7.93	25.92
		5/21/2002	5.90	27.95
		11/12/2002	7.28	26.57
		4/21/2003	6.18	27.67
		7/14/2003	6.86	26.99
		10/28/2003	7.18	26.67
		4/6/2004	5.70	28.15
		10/12/2004	6.95	26.90
		4/13/2005	6.20	27.65
		10/4/2005	8.51	25.34
		5/2/2006	6.00	27.85
		10/3/2006	6.04	27.81
		4/9/2007	5.91	27.94
		9/11/2007	6.01	27.84
		4/9/2008	5.80	28.05
		9/15/2008	6.35	27.50
		4/6/2009	5.95	27.90
		9/23/2009	7.46	26.39
		4/15/2010	5.98	27.87
		3/10/2011	5.05	28.80
		8/8/2011	7.65	26.20
		10/13/2011	4.97	28.88
		1/25/2012	6.37	27.48
		3/29/2012	6.50	27.35
		7/3/2012	7.60	26.25
		3/21/2013	5.86	27.99
		11/20/2013	7.98	25.87
		10/14/2014	8.60	25.25
		4/22/2015	6.41	27.44
		1/27/2016	6.73	27.12
		6/28/2016	8.16	25.69
		12/19/2016	6.08	27.77
		5/15/2017	5.55	28.30
		10/30/2017	8.60	25.25
		4/9/2018	6.63	27.22
		10/3/2018	4.78	29.07
		5/7/2019	6.22	27.63
		11/6/2019	6.34	27.51
		4/7/2020	5.60	28.25
		11/11/2020	7.07	26.78
		4/14/2021	6.39	27.46
		11/22/2021	5.85	28.00
		4/12/2022	4.52	29.33
		11/2/2022	6.38	27.47

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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-15	25.19	11/15/1999	3.91	21.28
		5/24/2000	2.56	22.63
		11/29/2000	2.98	22.21
		7/6/2001	3.02	22.17
		11/7/2001	4.37	20.82
		5/21/2002	2.88	22.31
		11/12/2002	2.91	22.28
		4/21/2003	3.46	21.73
		7/14/2003	3.08	22.11
		10/28/2003	2.98	22.21
		4/6/2004	2.93	22.26
		10/12/2004	3.68	21.51
		4/13/2005	3.45	21.74
		8/11/2005	5.21	19.98
		10/6/2005	4.84	20.35
		5/2/2006	2.74	22.45
		10/3/2006	2.17	23.02
		4/9/2007	2.29	22.90
		9/11/2007	2.20	22.99
		4/9/2008	2.26	22.93
		9/15/2008	2.10	23.09
		4/6/2009	2.37	22.82
		9/23/2009	3.43	21.76
		4/15/2010	2.55	22.64
		3/10/2011	1.85	23.34
		8/8/2011	2.96	22.23
		10/13/2011	1.93	23.26
		1/25/2012	2.55	22.64
		3/29/2012	2.97	22.22
		7/3/2012	3.35	21.84
		3/21/2013	2.10	23.09
		11/20/2013	4.10	21.09
		10/14/2014	4.40	20.79
		4/22/2015	1.83	23.36
		1/27/2016	2.37	22.82
		6/28/2016	4.20	20.99
		12/19/2016	2.09	23.10
		5/15/2017	1.55	23.64
		10/30/2017	9.16	16.03
		4/9/2018	1.78	23.41
		10/3/2018	1.65	23.54
		5/7/2019	1.80	23.39
		11/6/2019	1.70	23.49
		4/7/2020	1.86	23.33
		11/11/2020	2.32	22.87
		4/14/2021	2.20	22.99
		11/22/2021	1.59	23.60
		4/12/2022	1.39	23.80
		11/2/2022	1.84	23.35

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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-16	25.41	7/6/2001	8.28	17.13
		11/7/2001	8.75	16.66
		5/21/2002	7.25	18.16
		11/12/2002	8.11	17.30
		4/21/2003	8.46	16.95
		7/14/2003	8.26	17.15
		10/28/2003	8.03	17.38
		4/6/2004	7.68	17.73
		10/12/2004	8.56	16.85
		4/13/2005	8.15	17.26
		8/11/2005	8.83	16.58
		10/6/2005	9.21	16.20
		5/2/2006	8.23	17.18
		10/3/2006	7.48	17.93
		4/9/2007	9.25	16.16
		9/11/2007	7.38	18.03
		4/9/2008	7.47	17.94
		9/15/2008	7.97	17.44
		4/6/2009	7.64	17.77
		9/23/2009	8.81	16.60
		4/15/2010	7.70	17.71
		3/10/2011	5.65	19.76
		8/8/2011	8.28	17.13
		10/13/2011	7.32	18.09
		1/25/2012	8.25	17.16
		3/29/2012	8.35	17.06
		7/3/2012	5.48	19.93
		9/14/2012	8.22	17.19
		3/21/2013	7.55	17.86
		11/20/2013	8.25	17.16
		10/14/2014	8.60	16.81
		4/22/2015	NM*	NM*
		1/27/2016	8.18	17.23
		6/28/2016	8.91	16.50
		12/19/2016	7.98	17.43
		5/15/2017	6.47	18.94
		10/30/2017	8.29	17.12
		4/9/2018	7.88	17.53
		10/3/2018	7.01	18.40
		5/7/2019	7.55	17.86
		11/6/2019	8.67	16.74
		4/7/2020	7.35	18.06
		11/11/2020	8.16	17.25
		4/14/2021	7.80	17.61
		12/10/2021	7.79	17.62
		4/12/2022	5.89	19.52
		11/2/2022	7.57	17.84

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-17	21.78	7/6/2001	6.10	15.68
		11/7/2001	6.78	15.00
		5/21/2002	6.07	15.71
		11/12/2002	6.57	15.21
		4/21/2003	6.31	15.47
		7/14/2003	6.29	15.49
		10/28/2003	6.56	15.22
		4/6/2004	5.94	15.84
		10/12/2004	6.47	15.31
		4/13/2005	6.08	15.70
		10/4/2005	7.89	13.89
		5/2/2006	5.89	15.89
		10/3/2006	6.33	15.45
		4/9/2007	6.03	15.75
		9/11/2007	6.75	15.03
		4/9/2008	5.77	16.01
		9/15/2008	6.38	15.40
		4/6/2009	5.89	15.89
		9/23/2009	5.78	16.00
		4/15/2010	6.00	15.78
		3/10/2011	5.46	16.32
		8/8/2011	6.30	15.48
		10/13/2011	6.00	15.78
		1/25/2012	6.25	15.53
		3/29/2012	6.16	15.62
		7/3/2012	6.25	15.53
		9/13/2012	6.34	15.44
		3/21/2013	5.58	16.20
		11/20/2013	7.06	14.72
		10/14/2014	6.00	15.78
		4/22/2015	5.93	15.85
		1/27/2016	6.45	15.33
		6/28/2016	6.46	15.32
		12/19/2016	NM	NM
		5/15/2017	5.65	16.13
		10/30/2017	12.46	9.32
		4/9/2018	6.19	15.59
		10/3/2018	5.77	16.01
		5/7/2019	5.93	15.85
		11/6/2019	6.06	15.72
		4/7/2020	6.02	15.76
		11/11/2020	7.31	14.47
		4/14/2021	6.40	15.38
		11/22/2021	6.01	15.77
		4/12/2022	5.62	16.16
		11/2/2022	6.35	15.43

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-18	23.98	7/6/2001	5.08	18.90
		11/7/2001	6.36	17.62
		5/21/2002	4.38	19.60
		11/12/2002	5.62	18.36
		4/21/2003	5.71	18.27
		7/14/2003	5.13	18.85
		10/28/2003	5.54	18.44
		4/6/2004	4.33	19.65
		10/12/2004	6.73	17.25
		4/13/2005	5.38	18.60
		10/5/2005	7.18	16.80
		5/2/2006	5.30	18.68
		10/3/2006	4.48	19.50
		4/9/2007	4.53	19.45
		9/11/2007	4.29	19.69
		4/9/2008	4.19	19.79
		9/15/2008	4.88	19.10
		4/6/2009	4.60	19.38
		9/23/2009	6.53	17.45
		4/15/2010	4.96	19.02
		3/10/2011	3.10	20.88
		8/8/2011	6.10	17.88
		10/13/2011	4.73	19.25
		1/25/2012	5.44	18.54
		3/29/2012	5.70	18.28
		7/3/2012	6.35	17.63
		9/14/2012	5.75	18.23
		3/21/2013	4.42	19.56
		11/20/2013	6.74	17.24
		10/14/2014	6.90	17.08
		4/22/2015	NM*	NM*
		1/27/2016	6.01	17.97
		6/28/2016	7.01	16.97
		12/19/2016	5.52	18.46
		5/15/2017	4.10	19.88
		10/30/2017	6.65	17.33
		4/9/2018	5.47	18.51
		10/3/2018	4.11	19.87
		5/7/2019	5.00	18.98
		11/6/2019	5.07	18.91
		4/7/2020	5.05	18.93
		11/11/2020	5.76	18.22
		4/14/2021	5.80	18.18
		12/10/2021	5.89	18.09
		4/12/2022	3.81	20.17
		11/2/2022	5.40	18.58

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-19	25.51	7/6/2001	3.65	21.86
		11/7/2001	4.56	20.95
		5/21/2002	NM	NM
		11/12/2002	3.49	22.02
		4/21/2003	3.53	21.98
		7/14/2003	3.71	21.80
		10/28/2003	3.11	22.40
		4/6/2004	3.76	21.75
		10/12/2004	4.17	21.34
		4/13/2005	3.82	21.69
		8/11/2005	5.38	20.13
		10/4/2005	4.91	20.60
		5/2/2006	1.91	23.60
		10/3/2006	1.62	23.89
		4/9/2007	1.72	23.79
		9/11/2007	1.90	23.61
		4/9/2008	1.79	23.72
		9/15/2008	2.51	23.00
		4/6/2009	2.27	23.24
		9/23/2009	5.78	19.73
		4/15/2010	2.38	23.13
		3/10/2011	1.61	23.90
		8/8/2011	2.81	22.70
		10/13/2011	2.02	23.49
		1/25/2012	2.45	23.06
		3/29/2012	2.60	22.91
		7/3/2012	3.10	22.41
		9/13/2012	3.02	22.49
		3/21/2013	2.15	23.36
		11/20/2013	2.55	22.96
		10/14/2014	3.40	22.11
		4/22/2015	2.19	23.32
		1/27/2016	2.13	23.38
		6/28/2016	3.51	22.00
		12/19/2016	2.63	22.88
		5/15/2017	2.22	23.29
		10/30/2017	2.64	22.87
		4/10/2018	2.36	23.15
		10/3/2018	1.87	23.64
		5/7/2019	2.31	23.20
		11/6/2019	2.78	22.73
		4/7/2020	2.50	23.01
		11/11/2020	3.14	22.37
		4/14/2021	2.91	22.60
		11/22/2021	2.44	23.07
		4/12/2022	1.77	23.74
		11/3/2022	2.41	23.10

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
SUMP	26.82	11/15/1999	9.34	17.48
		5/24/2000	1.44	25.38
		11/29/2000	3.08	23.74
		7/6/2001	3.80	23.02
		11/7/2001	6.48	20.34
		5/21/2002	NM	NM
		11/12/2002	9.30	17.52
		4/21/2003	NM	NM
		7/14/2003	17.24	9.58
		10/28/2003	18.60	8.22
		4/6/2004	9.29	17.53
		10/12/2004	18.80	8.02
		4/13/2005	18.75	8.07
		10/5/2005	14.00	12.82
		5/2/2006	18.74	8.08
		10/4/2006	18.62	8.20
		4/9/2007	18.71	8.11
		9/11/2007	8.80	18.02
		4/9/2008	3.01	23.81
		9/15/2008	4.10	22.72
		4/6/2009	2.27	24.55
		9/23/2009	5.55	21.27
		4/15/2010	3.81	23.01
		3/10/2011	2.11	24.71
		8/8/2011	5.55	21.27
		10/13/2011	5.12	21.70
		1/25/2012	4.65	22.17
		3/29/2012	4.85	21.97
		7/3/2012	5.12	21.70
		3/21/2013	5.02	21.80
		11/20/2013	8.30	18.52
		10/14/2014	8.10	18.72
		4/22/2015	6.40	20.42
		1/27/2016	6.63	20.19
		6/28/2016	NM	NM
		12/19/2016	NM	NM
		5/15/2017	3.47	23.35
		10/30/2017	8.70	18.12
		4/9/2018	5.84	20.98
		10/3/2018	7.68	19.14
		05/07/2019***	Abandoned	

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-A1	26.82	4/9/2008	4.73	22.09
		9/15/2008	4.97	21.85
		4/6/2009	4.81	22.01
		9/23/2009	5.62	21.20
		4/15/2010	7.16	19.66
		3/10/2011	4.37	22.45
		8/8/2011	5.65	21.17
		10/13/2011	4.85	21.97
		1/25/2012	7.80	19.02
		3/29/2012	5.40	21.42
		7/3/2012	6.06	20.76
		9/13/2012	5.82	21.00
		3/21/2013	4.90	21.92
		11/20/2013	5.70	21.12
		10/14/2014	6.70	20.12
		4/22/2015	5.10	21.72
		1/27/2016	5.27	21.55
		6/28/2016	6.40	20.42
		12/19/2016	6.65	20.17
		5/15/2017	5.93	20.89
		10/30/2017	5.76	21.06
		4/10/2018	4.91	21.91
		10/3/2018	4.64	22.18
		5/7/2019	4.72	22.10
		11/6/2019	5.44	21.38
		4/7/2020	5.06	21.76
		11/11/2020	5.73	21.09
		4/14/2021	5.45	21.37
		11/22/2021	5.00	21.82
		4/12/2022	4.48	22.34
		11/3/2022	4.97	21.85
MW-B1	27.53	4/9/2008	5.18	22.35
		9/15/2008	5.14	22.39
		4/6/2009	5.34	22.19
		9/23/2009	6.31	21.22
		4/15/2010	5.34	22.19
		3/10/2011	4.50	23.03
		8/8/2011	5.91	21.62
		10/13/2011	5.40	22.13
		1/125/12	8.40	19.13
		3/29/2012	5.75	21.78
		7/3/2012	6.77	20.76
		9/13/2012	6.11	21.42
		3/21/2013	5.50	22.03
		11/20/2013	8.30	19.23
		10/14/2014	8.00	19.53

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-B1	27.53	4/22/2015	6.24	21.29
		1/27/2016	6.80	20.73
		6/28/2016	7.79	19.74
		12/19/2016	6.31	21.22
		5/15/2017	5.11	22.42
		10/30/2017	6.62	20.91
		4/10/2018	6.57	20.96
		10/3/2018	5.27	22.26
		5/7/2019	5.36	22.17
		11/6/2019	6.22	21.31
		4/7/2020	5.38	22.15
		11/11/2020	5.76	21.77
		4/14/2021	7.20	20.33
		11/22/2021	5.34	22.19
		4/12/2022	4.72	22.81
		11/3/2022	5.55	21.98
MW-B2	27.40	4/9/2008	5.08	22.32
		4/6/2009	5.19	22.21
		9/23/2009	6.11	21.29
		4/15/2010	5.23	22.17
		3/10/2011	4.37	23.03
		8/8/2011	5.52	21.88
		10/13/2011	4.94	22.46
		1/25/2012	7.85	19.55
		3/29/2012	4.76	22.64
		7/3/2012	5.96	21.44
		3/21/2013	4.91	22.49
		11/20/2013	6.89	20.51
		10/14/2014	6.70	20.70
		4/22/2015	5.32	22.08
		1/27/2016	6.07	21.33
		6/28/2016	6.92	20.48
		12/19/2016	5.82	21.58
		5/15/2017	4.82	22.58
		10/30/2017	6.76	20.64
		4/9/2018	5.61	21.79
		10/3/2018	4.81	22.59
		5/7/2019	5.16	22.24
		11/6/2019	5.12	22.28
		4/7/2020	5.27	22.13
		11/11/2020	6.65	20.75
		4/14/2021	7.44	19.96
		11/22/2021	5.62	21.78
		4/12/2022	5.05	22.35
		11/2/2022	6.28	21.12

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
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Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
IMP-1	25.13	10/13/2011	6.32	18.81
		1/25/2012	7.15	17.98
		3/29/2012	7.31	17.82
		7/3/2012	7.89	17.24
		3/21/2013	6.00	19.13
		11/20/2013	8.45	16.68
		10/14/2014	8.70	16.43
		4/22/2015	NM*	NM*
		1/27/2016	7.79	17.34
		6/28/2016	8.80	16.33
		12/19/2016	7.40	17.73
		5/15/2017	5.91	19.22
		10/30/2017	8.55	16.58
		4/9/2018	7.12	18.01
		10/3/2018	4.55	20.58
		5/7/2019	6.54	18.59
		11/6/2019	6.62	18.51
		4/7/2020	6.30	18.83
		11/11/2020	6.85	18.28
		4/14/2021	7.50	17.63
		4/12/2022	4.82	20.31
		11/2/2022	6.29	18.84
IMP-2	25.17	10/13/2011	6.32	18.85
		1/25/2012	7.48	17.69
		3/29/2012	7.61	17.56
		7/3/2012	8.16	17.01
		3/21/2013	6.35	18.82
		11/20/2013	8.62	16.55
		10/14/2014	9.20	15.97
		4/22/2015	NM*	NM*
		1/27/2016	7.96	17.21
		6/28/2016	NM	NM
		12/19/2016	7.88	17.29
		5/15/2017	6.55	18.62
		10/30/2017	8.41	16.76
		4/9/2018	NM	NM
		10/3/2018	5.95	19.22
		5/7/2019	NM	NM
		11/6/2019	7.16	18.01
		4/7/2020	7.02	18.15
		11/11/2020	7.68	17.49
		4/14/2021	7.86	17.31
		4/12/2022	5.65	19.52
		11/2/2022	7.34	17.83

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
IMP-3	25.13	9/15/2008	8.39	16.74
		4/6/2009	7.62	17.51
		9/23/2009	9.70	15.43
		4/15/2010	7.64	17.49
		3/10/2011	5.51	19.62
		8/8/2011	9.26	15.87
		10/13/2011	7.33	17.80
		1/25/2012	8.72	16.41
		3/29/2012	8.78	16.35
		7/3/2012	9.33	15.80
		9/14/2012	8.71	16.42
		3/21/2013	7.40	17.73
		11/20/2013	9.43	15.70
		10/14/2014	9.80	15.33
		4/22/2015	NM*	NM*
		1/27/2016	8.66	16.47
		6/28/2016	9.89	15.24
		12/19/2016	8.30	16.83
		5/15/2017	6.77	18.36
		10/30/2017	8.50	16.63
		4/9/2018	8.14	16.99
		10/3/2018	6.83	18.30
		5/7/2019	7.73	17.40
		11/6/2019	7.84	17.29
		4/7/2020	7.60	17.53
		11/11/2020	8.54	16.59
		4/14/2021	8.19	16.94
		12/10/2021	8.38	16.75
		4/12/2022	6.23	18.90
		11/2/2022	7.88	17.25

Table 5
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
IP-1	25.15	4/15/2010	5.03	20.12
		3/10/2011	3.72	21.43
		8/8/2011	5.70	19.45
		10/13/2011	4.46	20.69
		1/25/2012	5.28	19.87
		3/29/2012	5.65	19.50
		7/3/2012	6.28	18.87
		9/14/2012	5.52	19.63
		3/21/2013	4.63	20.52
		11/20/2013	6.36	18.79
		10/14/2014	6.40	18.75
		4/22/2015	NM*	NM*
		1/27/2016	5.67	19.48
		6/28/2016	6.68	18.47
		12/19/2016	4.93	20.22
		5/15/2017	3.83	21.32
		10/30/2017	5.74	19.41
		4/9/2018	5.01	20.14
		10/3/2018	4.00	21.15
		5/7/2019	4.51	20.64
		11/6/2019	4.90	20.25
		4/7/2020	4.84	20.31
		11/11/2020	5.25	19.90
		4/14/2021	5.30	19.85
		12/10/2021	5.28	19.87
		11/2/2022	5.08	20.07

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-20	25.36	4/15/2010	2.67	22.69
		3/10/2011	2.05	23.31
		8/8/2011	3.04	22.32
		10/13/2011	2.16	23.20
		1/25/2012	2.66	22.70
		3/29/2012	3.10	22.26
		7/3/2012	3.42	21.94
		9/13/2012	2.77	22.59
		3/21/2013	2.15	23.21
		11/20/2013	3.65	21.71
		10/14/2014	3.90	21.46
		4/22/2015	1.88	23.48
		1/27/2016	2.34	23.02
		6/28/2016	3.81	21.55
		12/19/2016	2.05	23.31
		5/15/2017	1.63	23.73
		10/30/2017	3.16	22.20
		4/10/2018	1.94	23.42
		10/3/2018	1.64	23.72
		5/7/2019	1.94	23.42
		11/6/2019	1.84	23.52
		4/7/2020	1.93	23.43
		11/11/2020	2.29	23.07
		4/14/2021	2.19	23.17
		11/22/2021	1.68	23.68
		4/12/2022	1.46	23.90
		11/2/2022	1.89	23.47

Table 5
Summary of Groundwater Elevation Data (1999-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-21	27.97	4/15/2010	10.16	17.81
		3/10/2011	7.35	20.62
		8/8/2011	11.45	16.52
		10/13/2011	10.65	17.32
		1/25/2012	13.00	14.97
		3/29/2012	10.83	17.14
		7/3/2012	11.15	16.82
		9/14/2012	11.27	16.70
		3/21/2013	9.76	18.21
		11/20/2013	11.68	16.29
		10/14/2014	12.10	15.87
		4/22/2015	9.60	18.37
		1/27/2016	10.53	17.44
		6/28/2016	11.90	16.07
		12/19/2016	11.01	16.96
		5/15/2017	8.37	19.60
		10/30/2017	11.46	16.51
		4/9/2018	10.27	17.70
		10/3/2018	10.03	17.94
		5/7/2019	9.93	18.04
		11/6/2019	9.92	18.05
		4/7/2020	9.52	18.45
		11/11/2020	11.17	16.80
		4/14/2021	10.19	17.78
		11/22/2021	9.93	18.04
		4/12/2022	7.18	20.79
		11/2/2022	10.50	17.47

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MW-22	30.65	10/30/2017	3.12	27.53
		4/10/2018	1.76	28.89
		10/3/2018	1.35	29.30
		5/7/2019	0.85	29.80
		4/8/2020	0.98	29.67
		11/11/2020	NM	NM
		4/26/2021	1.13	29.52
		11/22/2021	1.23	29.42
		4/12/2022	0.60	30.05
		11/2/2022	1.74	28.91
MW-23	26.69	10/30/2017	9.50	17.19
		4/10/2018	8.58	18.11
		10/3/2018	7.76	18.93
		5/7/2019	7.29	19.40
		11/6/2019	7.49	19.20
		4/7/2020	7.18	19.51
		11/11/2020	7.56	19.13
		4/14/2021	7.20	19.49
		11/22/2021	7.27	19.42
		4/12/2022	6.64	20.05
		11/3/2022	7.63	19.06
MW-24	25.43	10/30/2017	7.30	18.13
		4/10/2018	5.78	19.65
		10/3/2018	5.68	19.75
		5/7/2019	6.22	19.21
		11/6/2019	6.34	19.09
		4/8/2020	6.58	18.85
		11/11/2020	7.37	18.06
		4/14/2021	7.20	18.23
		11/22/2021	6.71	18.72
		4/12/2022	5.88	19.55
		11/2/2022	7.10	18.33
MW-25	28.13	10/3/2018	4.06	24.07
		5/7/2019	2.35	25.78
		11/6/2019	2.01	26.12
		4/7/2020	1.34	26.79
		11/11/2020	5.05	23.08
		4/14/2021	3.62	24.51
		11/22/2021	4.98	23.15
		4/12/2022	1.26	26.87
		11/3/2022	1.89	26.24

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
PZ-1	27.88	10/13/2011	4.30	23.58
		1/25/2012	4.11	23.77
		3/29/2012	5.00	22.88
		7/3/2012	5.60	22.28
		3/21/2013	4.16	23.72
		11/20/2013	5.04	22.84
		10/14/2014	6.00	21.88
		4/22/2015	4.15	23.73
		1/27/2016	5.08	22.80
		6/28/2016	6.15	21.73
		12/19/2016	4.40	23.48
		5/15/2017	3.95	23.93
		10/30/2017	4.03	23.85
		4/9/2018	4.31	23.57
		10/3/2018	4.03	23.85
		05/07/2019***	Abandoned	
PZ-2	28.34	10/13/2011	4.76	23.58
		1/25/2012	5.06	23.28
		3/29/2012	5.06	23.28
		7/3/2012	6.00	22.34
		3/21/2013	4.94	23.40
		11/20/2013	6.02	22.32
		10/14/2014	6.00	22.34
		4/22/2015	4.97	23.37
		1/27/2016	5.54	22.80
		6/28/2016	7.03	21.31
		12/19/2016	5.30	23.04
		5/15/2017	5.21	23.13
		10/30/2017	5.26	23.08
		4/9/2018	5.31	23.03
		10/3/2018	5.30	23.04
		05/07/2019***	Abandoned	

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
PZ-3	29.97	10/13/2011	4.11	25.86
		1/25/2012	7.30	22.67
		3/29/2012	5.01	24.96
		7/3/2012	5.65	24.32
		3/21/2013	4.53	25.44
		11/20/2013	6.34	23.63
		10/14/2014	5.70	24.27
		4/22/2015	4.60	25.37
		1/27/2016	5.44	24.53
		6/28/2016	6.06	23.91
		12/19/2016	5.37	24.60
		5/15/2017	4.46	25.51
		10/30/2017	5.70	24.27
		4/9/2018	4.79	25.18
		10/3/2018	4.07	25.90
		5/8/2019	5.00	24.97
		11/6/2019	4.97	25.00
		4/7/2020	5.56	24.41
		11/11/2020	6.01	23.96
		4/14/2021	6.09	23.88
		11/22/2021	5.59	24.38
		4/12/2022	4.97	25.00
		11/2/2022	5.30	24.67

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
PZ-4	25.20	10/13/2011	1.54	23.66
		1/25/2012	3.17	22.03
		3/29/2012	3.30	21.90
		7/3/2012	3.63	21.57
		3/21/2013	1.52	23.68
		11/20/2013	6.77	18.43
		10/14/2014	6.70	18.50
		4/22/2015	5.00	20.20
		1/27/2016	5.21	19.99
		6/28/2016	6.21	18.99
		12/19/2016	6.28	18.92
		5/15/2017	1.95	23.25
		10/30/2017	7.21	17.99
		4/9/2018	4.37	20.83
		10/3/2018	4.00	21.20
		5/7/2019	3.50	21.70
		11/6/2019	3.54	21.66
		4/7/2020	3.55	21.65
		11/11/2020	5.41	19.79
		4/14/2021	4.51	20.69
		11/22/2021	3.31	21.89
		4/12/2022	1.48	23.72
		11/2/2022	4.42	20.78
PZ-5	25.52	10/13/2011	2.65	22.87
		1/25/2012	4.22	21.30
		3/29/2012	4.35	21.17
		7/3/2012	4.36	21.16
		3/21/2013	3.25	22.27
		11/20/2013	6.98	18.54
		10/14/2014	5.60	19.92
		4/22/2015	4.46	21.06
		1/27/2016	5.17	20.35
		6/28/2016	6.27	19.25
		12/19/2016	5.36	20.16
		5/15/2017	2.55	22.97
		10/30/2017	6.80	18.72
		4/9/2018	4.99	20.53
		10/3/2018	3.23	22.29
		5/7/2019	3.45	22.07
		11/6/2019	3.51	22.01
		4/7/2020	4.39	21.13
		11/11/2020	4.66	20.86
		4/14/2021	4.22	21.30
		11/22/2021	3.95	21.57
		4/12/2022	1.45	24.07
		11/2/2022	4.70	20.82

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
PZ-6	25.22	10/13/2011	3.49	21.73
		1/25/2012	4.46	20.76
		3/29/2012	4.55	20.67
		7/3/2012	4.88	20.34
		3/21/2013	3.35	21.87
		11/20/2013	6.46	18.76
		10/14/2014	5.70	19.52
		4/22/2015	4.01	21.21
		1/27/2016	4.85	20.37
		6/28/2016	5.94	19.28
		12/19/2016	4.83	20.39
		5/15/2017	2.81	22.41
		10/30/2017	4.60	20.62
		4/9/2018	4.32	20.90
		10/3/2018	6.24	18.98
		5/7/2019	3.71	21.51
		11/6/2019	4.00	21.22
		4/7/2020	3.75	21.47
		11/11/2020	4.75	20.47
		4/14/2021	4.31	20.91
		11/22/2021	4.41	20.81
		4/12/2022	3.58	21.64
		11/2/2022	4.75	20.47
PZ-7	24.90	10/13/2011	3.28	21.62
		1/25/2012	6.12	18.78
		3/29/2012	4.02	20.88
		7/3/2012	4.45	20.45
		3/21/2013	3.02	21.88
		11/20/2013	4.89	20.01
		10/14/2014	5.10	19.80
		4/22/2015	3.22	21.68
		1/27/2016	4.17	20.73
		6/28/2016	5.18	19.72
		12/19/2016	3.73	21.17
		5/15/2017	2.68	22.22
		10/30/2017	4.80	20.10
		4/9/2018	3.83	21.07
		10/3/2018	2.75	22.15
		5/7/2019	3.24	21.66
		11/6/2019	3.52	21.38
		4/7/2020	3.42	21.48
		11/11/2020	3.44	21.46
		4/14/2021	3.81	21.09
		11/22/2021	3.89	21.01
		4/12/2022	3.03	21.87
		11/2/2022	3.93	20.97

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
BM-2	28.02	10/13/2011	3.33	24.69
		1/25/2012	< 0.5	--
		3/29/2012	3.65	24.37
		7/3/2012	3.70	24.32
		3/21/2013	3.65	24.37
		11/20/2013	3.72	24.30
		10/14/2014	3.50	24.52
		4/22/2015	3.62	--
		1/27/2016	3.50	24.52
		6/28/2016	3.72	24.30
		12/19/2016	0.80	27.22
		5/15/2017	3.70	24.32
		10/30/2017	3.74	24.28
		4/9/2018	3.71	24.31
		10/3/2018	3.70	24.32
		5/7/2019	3.62	24.40
		11/6/2019	3.81	24.21
		4/7/2020	3.75	24.27
		11/11/2020	3.78	24.24
		4/14/2021	3.70	24.32
		11/22/2021	3.68	24.34
		4/12/2022	3.62	24.40
		11/2/2022	3.68	24.34
BM-4	26.59	10/13/2011	7.01	19.58
		1/25/2012	< 0.5	--
		3/29/2012	7.90	18.69
		7/3/2012	8.00	18.59
		3/21/2013	NM	NM
		11/20/2013	8.05	18.54
		10/14/2014	7.90	18.69
		4/22/2015	7.97	18.62
		1/27/2016	7.99	18.60
		6/28/2016	NM	NM
		12/19/2016	NM	NM
		5/15/2017	8.20	18.39
		10/30/2017	8.25	18.34
		4/9/2018	NM	NM
		10/3/2018	8.00	18.59
		5/7/2019	7.90	18.69
		11/6/2019	8.07	18.52
		4/7/2020	8.07	18.52
		11/11/2020	8.18	18.41
		4/14/2021	7.00	19.59
		11/22/2021	8.02	18.57
		4/12/2022	7.89	18.70
		11/2/2022	7.88	18.71

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
MH-1	16.50	10/13/2011	7.12	9.38
		1/25/2012	NM	NM
		3/29/2012	7.90	8.60
		7/3/2012	7.90	8.60
		3/21/2013	7.98	8.52
		11/20/2013	8.05	8.45
		10/14/2014	8.50	8.00
		4/22/2015	8.00	8.50
		1/27/2016	8.05	8.45
		6/28/2016	8.03	8.47
		12/19/2016	NM	NM
		5/15/2017	7.90	8.60
		10/30/2017	8.00	8.50
		4/9/2018	8.02	8.48
		10/3/2018	7.81	8.69
		5/7/2019	8.00	8.50
		11/6/2019	8.12	8.38
		4/7/2020	8.11	8.39
		11/11/2020	8.38	8.12
		4/14/2021	8.00	8.50
		11/22/2021	8.02	8.48
		4/12/2022	7.82	8.68
		11/2/2022	8.13	8.37
MH-2	15.40	10/13/2011	NM	NM
		1/25/2012	NM	NM
		3/29/2012	NM	NM
		7/3/2012	NM	NM
		3/21/2013	NM	NM
		11/20/2013	NM	NM
		10/14/2014	8.20	7.20
		4/22/2015	7.89	7.51
		1/27/2016	NM	NM
		6/28/2016	NM	NM
		12/19/2016	NM	NM
		5/15/2017	NM	NM
		10/30/2017	NM	NM
		4/9/2018	NM	NM
		10/3/2018	7.73	7.67
		5/7/2019	8.18	7.22
		11/6/2019	8.29	7.11
		4/7/2020	8.31	7.09
		11/11/2020	8.37	7.03
		4/14/2021	8.10	7.30
		11/22/2021	8.29	7.11
		4/12/2022	8.08	7.32
		11/2/2022	8.21	7.19

Table 5
Summary of Groundwater Elevation Data (1999-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Well ID	Measuring Point Elevation (msl)	Date	DTW	Groundwater Elevation (msl)
IW-A2	32.30	11/6/2019	8.60	23.70
		4/8/2020	8.23	24.07
		4/14/2021	7.80	24.50
		11/22/2021	7.83	24.47
		4/12/2022	6.79	25.51
		11/3/2022	7.75	24.55
IW-B1	25.03	5/7/2019	4.60	27.70
IW-B2	25.99	5/7/2019	2.23	23.76
		4/14/2021	2.38	23.61
		11/22/2021	2.11	23.88
		4/12/2022	1.70	24.29
		11/2/2022	1.32	24.67
IW-B3	25.60	11/6/2019	2.25	23.35
		4/14/2021	6.00	19.60
		11/22/2021	2.12	23.48
		4/12/2022	1.64	23.96
		11/3/2022	2.15	23.45

NOTES:
1. All elevations are referenced to feet above mean sea level (msl).

2. Top of inner casing measuring point elevations were updated with survey performed by Thew Associates in 2018.

bgs = below ground surface
DTW = depth to groundwater in feet below measuring point
NM = Not measured.
NM* = Not measured. Wells were inaccessible along the CSX rail line due to railroad construction.
* = Unable to located due to ice.
** = Well casing damaged.
*** = Well was abandoned.

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
IMP-3	2/28/2006	**2.30**
	5/3/2006	**1.00**
	4/15/2010	1.00 U
	3/9/2011	1.00 U
	8/10/2011	**1.30**
	10/14/2011	1.00 U
	1/24/2012	1.00 U
	3/30/2012	1.00 U
	7/3/2012	**1.00**
	9/14/2012	1.00 U
	3/22/2013	**1.90**
	11/21/2013	**1.50**
	5/29/2014	1.00 U
	10/14/2014	**1.10**
	1/27/2016	1.00 U
	6/30/2016	**1.50**
	12/20/2016	2.30 UB
	5/15/2017	**0.910 J**
	10/30/2017	1.30 UB
	4/9/2018	1.40 UB
	10/3/2018	1.70 UB
	11/20/2018	**1.40**
	11/29/2018	**1.00**
	12/5/2018	**1.60 B**
	12/11/2018	**1.80**
	1/9/2019	--
	2/19/2019	--
	5/7/2019	**0.900 J**
	8/7/2019	--
	11/6/2019	**1.0**
	4/7/2020	**0.79 J**
	11/12/2020	**1.6**
	4/15/2021	**1.10**
	12/10/2021	**1.9**
	4/12/2022	**1.50**
	11/2/2022	1.40 UB
IP-1	2/28/2006	**3.10**
	5/3/2006	**3.10**
	4/15/2010	**3.20**
	3/9/2011	**3.70**
	8/10/2011	**4.90**
	10/14/2011	**4.30**
	1/24/2012	**4.20**
	3/30/2012	**4.80**
	7/3/2012	**5.30**
	9/14/2012	**4.40**
	3/22/2013	**4.80**
	11/21/2013	**7.60**
	5/29/2014	**5.00**

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
IP-1 (cont)	10/14/2014	**5.40**
	1/27/2016	**4.50**
	6/28/2016	**4.40**
	12/20/2016	**4.60 [4.40]**
	5/15/2017	**4.10**
	10/30/2017	**4.30**
	4/9/2018	**3.70**
	10/3/2018	4.30 UB
	11/20/2018	**4.30**
	11/29/2018	**4.10**
	12/5/2018	**4.30 B**
	12/11/2018	**4.60**
	1/9/2019	--
	2/19/2019	--
	5/7/2019	**3.90**
	8/7/2019	--
	11/7/2019	**4.40**
	4/7/2020	**4.70**
	11/12/2020	**4.50**
	4/15/2021	**4.30**
	12/10/2021	**4.30**
	4/12/2022	**4.70 [4.60]**
	11/2/2022	**4.50**
IW-A2	10/20/2010	**20,000**
	11/8/2010	**300**
	11/23/2010	**250**
	12/28/2010	**230**
	4/11/2011	**790**
	5/12/2011	**220**
	6/2/2011	**310**
	10/14/2011	**960**
	1/25/2012	**7,100**
	3/29/2012	**4,700**
	7/2/2012	**3,400**
	9/13/2012	**1,400**
	3/22/2013	**290**
	11/21/2013	**1,200**
	5/29/2014	**340**
	10/15/2014	**280**
	4/23/2015	**200**
	1/27/2016	**3,900**
	6/30/2016	**4,100**
	12/21/2016	**620**
	5/16/2017	**380**
	10/31/2017	**420**
	4/10/2018	**260**
	10/4/2018	**210**
	5/8/2019	**150**
	11/6/2019	**190**

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
IW-A2 (cont)	4/8/2020	**190**
	11/12/2020	**120**
	4/15/2021	**140**
	11/22/2021	**120**
	4/12/2022	**66.0**
	11/3/2022	**81.0**
IW-B3	10/14/2011	**1,600**
	1/24/2012	**8,100**
	3/29/2012	**3,600**
	7/2/2012	**4,000**
	9/13/2012	**2,100**
	3/21/2013	**560**
	11/21/2013	**3,000**
	5/29/2014	**860**
	10/15/2014	**570**
	4/22/2015	**320**
	1/27/2016	**1,500**
	6/30/2016	**1,800**
	12/21/2016	**390**
	5/16/2017	**500**
	10/31/2017	**380**
	4/10/2018	**250**
	10/3/2018	**240**
	5/8/2019	**150**
	11/6/2019	**190**
	4/7/2020	**98**
	11/13/2020	**130**
	4/14/2021	**71.0**
	11/22/2021	**110**
	4/13/2022	**50.0**
	11/3/2022	**55.0**
MW-1	7/16/2003	1.00 U
	4/12/2007	**1.70**
	9/14/2007	**3.90**
	12/20/2016	2.60 UB
	10/30/2017	2.20 UB
	4/10/2018	1.70 UB
MW-13	7/16/2003	**3.60**
	4/10/2007	1.00 U
	4/16/2010	1.00 U
	3/9/2011	1.00 U
	8/9/2011	1.00 U
	10/14/2011	1.00 U
	1/25/2012	1.00 U
	3/29/2012	1.00 U
	7/2/2012	1.00 U
	9/13/2012	1.00 U
	3/21/2013	1.00 U
	11/21/2013	**2.60**
	5/29/2014	1.00 U
	10/15/2014	1.00 U
	4/22/2015	1.00 U

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
MW-13 (cont)	1/27/2016	1.00 U
	6/28/2016	1.00 U
	12/20/2016	1.00 UB
	5/16/2017	**0.590 J**
	10/31/2017	1.00 UB
	4/10/2018	0.540 UB
	10/4/2018	1.10 UB
	5/7/2019	**1.40**
	11/6/2019	1.00 U
	4/7/2020	1.00 U
	11/11/2020	1.00 U
	4/14/2021	1.00 U
	11/22/2021	**0.50 J**
	4/12/2022	1.00 U
	11/2/2022	1.00 U
MW-16	7/15/2003	0.100 U
	8/11/2005	**1.70**
	4/12/2007	1.00 U
	9/24/2007	**2.10**
	4/15/2010	1.00 U
	3/8/2011	1.00 U
	8/9/2011	**1.40**
	10/14/2011	**1.20**
	1/24/2012	**1.20**
	3/30/2012	**1.40**
	7/2/2012	**1.60**
	9/14/2012	**1.60**
	3/22/2013	**1.20**
	11/21/2013	**4.20**
	5/29/2014	1.00 U
	10/14/2014	**1.70**
	1/27/2016	**1.10**
	6/30/2016	**1.60**
	12/20/2016	1.10 UB
	5/15/2017	1.10
	10/30/2017	2.10 UB
	4/9/2018	0.880 UB
	10/3/2018	1.20 UB
	11/20/2018	**1.40**
	11/29/2018	**1.80**
	12/5/2018	**1.50 B**
	12/11/2018	**1.80**
	1/9/2019	--
	2/19/2019	--
	5/7/2019	**0.790 J**
	8/8/2019	--
	11/7/2019	**0.87 J**
	4/7/2020	**0.75 J**
	11/11/2020	**1.10**
	4/15/2021	**1.40**
	12/10/2021	**1.1**
	4/12/2022	**1.10**
	11/2/2022	1.10 UB

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
MW-17	7/15/2003	0.100 U
	2/28/2006	1.00 U
	4/10/2007	1.00 U
	4/15/2010	1.00 U [1.00 U]
	3/8/2011	**1.50**
	8/9/2011	**1.30**
	10/13/2011	1.00 U
	1/24/2012	**1.10 J [5.50 J]**
	3/30/2012	**1.00**
	7/2/2012	**1.50**
	9/13/2012	**1.50**
	3/22/2013	**1.60**
	11/21/2013	1.00 U
	5/29/2014	**1.10**
	10/15/2014	**1.50**
	4/22/2015	**1.30**
	1/27/2016	**1.20**
	6/28/2016	**1.50**
	5/15/2017	**1.40**
	10/30/2017	**3.20**
	4/9/2018	1.60 UB
	10/3/2018	1.80 UB
	5/8/2019	**2.90**
	11/6/2019	**3.20**
	4/7/2020	**1.60**
	11/12/2020	**3.60**
	4/15/2021	**2.20**
	11/22/2021	**2.7**
	4/12/2022	**3.90**
	11/2/2022	**3.80**
MW-18	2/28/2006	1.80
	5/3/2006	2.00
	4/12/2007	11.0
	9/24/2007	2.00
	4/15/2010	**1.10**
	3/9/2011	**1.60**
	8/10/2011	1.40
	10/14/2011	**1.50**
	1/24/2012	**1.30**
	3/30/2012	**1.50**
	7/3/2012	**1.70**
	9/14/2012	**2.00**
	3/22/2013	2.30
	11/21/2013	**2.60**
	5/29/2014	**1.80**
	10/14/2014	**3.30**
	1/27/2016	**2.00**
	6/28/2016	**2.40**
	12/20/2016	**2.50 UB**
	5/15/2017	**2.70**
	10/30/2017	2.50 UB
	4/9/2018	2.60

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
MW-18 (cont)	10/3/2018	2.80 UB
	11/20/2018	**2.50**
	11/29/2018	**2.10**
	12/5/2018	**2.60 B**
	12/11/2018	**2.70**
	1/9/2019	--
	2/19/2019	--
	5/7/2019	**2.00**
	8/7/2019	--
	11/7/2019	**2.70**
	4/7/2020	**2.90**
	11/12/2020	**2.70**
	4/15/2021	**2.50**
	12/10/2021	**2.8**
	4/12/2022	**2.80 J**
	11/2/2022	2.70 UB
MW-19	7/16/2003	**6.30**
	8/11/2005	**6.90**
	5/10/2006	**69.0**
	4/12/2007	**1.50 [2.80]**
	9/18/2007	**11.0**
	3/9/2011	**6.90**
	8/9/2011	**9.10**
	10/13/2011	**7.10**
	1/25/2012	**29.0**
	3/29/2012	**28.0 [27.0]**
	7/2/2012	**8.40 [8.30]**
	9/13/2012	**8.10 [8.10]**
	3/21/2013	**6.30 [6.40]**
	11/21/2013	**8.30 J [4.10 J]**
	5/29/2014	**8.80 [9.40]**
	10/15/2014	**8.10 [7.70]**
	4/23/2015	**6.20 [5.90]**
	1/27/2016	**8.90**
	6/30/2016	**23.0 [24.0]**
	12/20/2016	**5.00**
	5/16/2017	**4.60 [4.60]**
	10/31/2017	**5.30 [5.80]**
	4/9/2018	**5.70 B [5.70]**
	10/4/2018	**4.60 [4.60]**
	11/20/2018	**8.20**
	11/29/2018	**7.60 [7.80]**
	12/5/2018	**7.60**
	12/11/2018	**7.30**
	1/9/2019	**6.20**
	2/19/2019	**4.7 B**
	5/8/2019	**5.20 [5.30]**
	8/8/2019	**6.8**
	11/6/2019	**7.1 [7.0]**
	4/8/2020	**6.1 [6.5]**
	11/12/2020	**36 [37]**
	4/15/2021	**9.20**
	11/23/2021	**8.0 [7.8]**
	4/12/2022	**9.40**
	11/3/2022	**7.10 [6.80]**

Table 6
Summary of TOC Results (July 2003-November 2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
MW-20	10/31/2017	**21.0**
	4/10/2018	**4.00**
	11/6/2019	**3.80**
	4/7/2020	**2.80**
	11/12/2020	**3.80**
	4/15/2021	**4.50**
	11/23/2021	**3.6**
	4/12/2022	**2.00**
	11/2/2022	**3.50**
MW-21	4/16/2010	**2.30**
	3/8/2011	**2.80**
	8/9/2011	**2.90**
	10/13/2011	**3.70**
	1/24/2012	**3.20**
	3/30/2012	**2.90**
	7/2/2012	**3.10**
	9/14/2012	**4.50**
	3/22/2013	**3.20**
	11/21/2013	**2.80**
	5/29/2014	**2.20**
	10/15/2014	**2.70**
	4/22/2015	**2.70**
	1/27/2016	**3.20**
	6/30/2016	**4.20**
	12/20/2016	**4.70**
	5/15/2017	**3.00**
	10/30/2017	**4.20**
	4/9/2018	**4.60**
	10/3/2018	**8.50**
	11/20/2018	**3.50**
	11/29/2018	**3.60**
	12/5/2018	**4.40 B [4.30]**
	12/11/2018	**4.50**
	5/7/2019	**2.90**
	11/7/2019	**6.80**
	4/7/2020	**2.70**
	11/11/2020	**4.70**
	4/15/2021	**3.80**
	11/22/2021	**7.8**
	4/12/2022	**5.20**
	11/2/2022	**5.30**
MW-22	9/15/2017	**6.50 B**
	4/19/2018	**600**
MW-23	9/15/2017	**1.60 B**
	4/19/2018	**31.0**
	11/20/2018	**21.0**
	11/29/2018	**45.0**
	12/5/2018	**32.0 B**
	12/11/2018	**25.0**
	1/9/2019	**19.0**
	2/19/2019	**15**
	5/8/2019	**14.0**
	8/8/2019	**15**
	11/6/2019	**17**
	4/7/2020	**14**

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
MW-23 (cont)	11/12/2020	**16**
	4/14/2021	**13.0 [15.0]**
	11/22/2021	**13**
	4/13/2022	**11.0**
	11/3/2022	**14.0**
MW-24	9/15/2017	**3.20 B [3.20 B]**
	4/19/2018	**28.0**
	11/20/2018	**13.0**
	11/29/2018	**46.0**
	12/5/2018	**81.0 B**
	12/11/2018	**61.0**
	1/9/2019	**92.0**
	2/19/2019	**82**
	5/8/2019	**89.0**
	8/8/2019	**170**
	11/6/2019	**62**
	4/8/2020	**21**
	11/13/2020	**590**
	4/15/2021	**760**
	11/22/2021	**350**
	4/13/2022	**280**
	11/2/2022	**40.0**
MW-25	10/4/2018	**5.30**
	11/20/2018	**6.20**
	11/29/2018	**7.50**
	12/5/2018	**7.20 B**
	12/11/2018	**6.30**
	1/9/2019	**9.00**
	2/21/2019	**5.2**
	5/8/2019	**6.00**
	8/7/2019	**6.00**
	11/6/2019	**19**
	4/7/2020	**6.8**
	11/11/2020	**16.0**
	4/15/2021	**12.0**
	11/23/2021	**10**
	4/12/2022	**13.0**
	11/3/2022	**12.0**
MW-A1	10/20/2010	**14.0**
	11/8/2010	**7.90**
	11/23/2010	**6.30**
	12/28/2010	10.0 U
	3/9/2011	**6.20 [6.90]**
	4/11/2011	100 U
	5/12/2011	**6.30**
	6/2/2011	**14.0**
	8/9/2011	**8.10 [8.60]**
	10/13/2011	**6.80 [6.80]**
	1/25/2012	**77.0**
	3/29/2012	**58.0**
	7/2/2012	**23.0**
	9/13/2012	**11.0**
	3/21/2013	**11.0**
	11/21/2013	**680**
	5/29/2014	**93.0**

Table 6
Summary of TOC Results (July 2003-November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Total Organic Carbon (mg/L)
MW-A1 (cont)	10/15/2014	**19.0**
	4/23/2015	**15.0**
	1/27/2016	**260**
	6/30/2016	**65.0**
	12/20/2016	**12.0**
	5/16/2017	**9.20**
	10/31/2017	**11.0**
	4/10/2018	**10.0**
	10/4/2018	**13.0**
	5/8/2019	**12.0**
	11/6/2019	**16.0**
	4/8/2020	**17.0**
	11/11/2020	**15.0**
	4/15/2021	**15.0**
	11/23/2021	**15.0**
	4/12/2022	**17.0**
	11/3/2022	**15.0**
MW-B1	3/9/2011	**1,700**
	8/10/2011	**2,200**
	10/13/2011	**930**
	1/24/2012	**590**
	3/29/2012	**600**
	7/2/2012	**600**
	9/13/2012	**480**
	3/21/2013	**260**
	11/21/2013	**86.0**
	5/29/2014	**30.0**
	10/15/2014	**35.0**
	4/22/2015	**27.0**
	1/27/2016	**39.0**
	6/28/2016	**22.0**
	12/21/2016	**29.0**
	5/16/2017	**18.0**
	10/30/2017	**22.0**
	4/10/2018	**21.0**
	10/3/2018	**17.0**
	5/7/2019	**20.0**
	11/6/2019	**18**
	4/8/2020	**15**
	11/12/2020	**450**
	4/15/2021	**26.0**
	11/22/2021	**19**
	4/13/2022	**17.0**
	11/3/2022	**15.0**

NOTES:

1. Bold results denote detections.
2. All results are in mg/L, equivalent to parts per million.
3. Duplicate sample results are in brackets.

mg/L = milligrams per liter

B = Compound was found in the blank and sample.

J = Indicates an estimated value.

U = Undetected; result is less than the project quantitation limit or if estimated results (J flags) are to be reported, less than the method detection limit.

UB = Compound considered nondetect at the listed value due to associated blank contamination.

Table 7
Summary of MNA Parameters in Groundwater (July 2003- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)
IMP-3	2/28/2006	**12**	**2.5**	**250**
	5/3/2006	**13**	**2.7**	**100**
	4/15/2010	**1.2**	**0.49**	**260**
	10/30/2017	7.5 U	7.0 U	**210**
	4/9/2018	83 U	77 U	**170**
	4/12/2022	NA	NA	NA
	11/2/2022	NA	NA	NA
IP-1	2/28/2006	**76**	**33**	**4,400**
	5/3/2006	**50**	**16**	**1,900**
	4/15/2010	**34**	**8.0**	**2,100**
	3/9/2011	NA	NA	**0.62**
	8/10/2011	NA	NA	**980 J**
	10/14/2011	NA	NA	**2,400**
	1/24/2012	NA	NA	**2,200 J**
	3/30/2012	NA	NA	**2,000**
	9/14/2012	**50 J**	**14 J**	**2,200**
	3/22/2013	**43**	**13**	**2,300**
	11/21/2013	**56**	**13**	**2,500**
	5/29/2014	1.1 U	1.0 U	**1,200**
	10/14/2014	**43**	**8.5**	**1,300**
	1/27/2016	NA	NA	**1,500**
	6/28/2016	150 U	140 U	**600**
	12/20/2016	150 U [75 U]	140 U [70 U]	380 UB [470 UB]
	5/15/2017	75 U	70 U	380 UB
	10/30/2017	170 U	150 U	**1,800**
	4/9/2018	83 U	77 U	**2,300**
	10/3/2018	**61**	**8.8**	**2,700 D**
	5/7/2019	**2.0 J**	**0.49 J**	**1,500 J**
	11/7/2019	**29**	**3.4 J**	**1,400 J**
	4/7/2020	**48**	**6.0 J**	**2,400**
	11/12/2020	**44**	**5.2 J**	**2,100**
	4/15/2021	**66**	**8.7**	**2,800 D**
	12/10/2021	**44**	**3.9 J**	**2,300**
	4/12/2022	**76 J [50 J]**	**8.4 J [4.1 J]**	**2,800 J [1,100 J]**
	11/2/2022	**60**	**8.4**	**2,400**
IW-A2	10/31/2017	330 U	310 U	**4,200**
	4/10/2018	750 U	700 U	**13,000**
	04/12/2022	NA	NA	NA
	4/8/2020	NA	NA	NA
	11/12/2020	NA	NA	NA
	4/15/2021	NA	NA	NA
	11/22/2021	NA	NA	NA
	4/12/2022	NA	NA	NA
	11/3/2022	NA	NA	NA
IW-B3	10/31/2017	330 U	310 U	**5,500**
	4/10/2018	750 U	700 U	**14,000**
	04/13/2022	NA	NA	NA
	4/7/2020	NA	NA	NA
	11/13/2020	NA	NA	NA
	4/14/2021	NA	NA	NA
	11/22/2021	NA	NA	NA
	4/13/2022	NA	NA	NA
	11/3/2022	NA	NA	NA

Table 7
Summary of MNA Parameters in Groundwater (July 2003- November 2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)
MW-1	7/16/2003	**1.4**	0.33 U	**47**
	4/12/2007	**2.5**	0.33 U	**3.4**
	9/14/2007	0.35 U	0.33 U	**0.36**
	12/20/2016	7.5 U	7.0 U	4.0 UB
	10/30/2017	7.5 U	7.0 U	4.0 U
	4/10/2018	7.5 U	7.0 U	4.0 U
MW-13	7/16/2003	0.35 U	0.33 U	**3.3**
	4/10/2007	0.35 U	0.33 U	**0.60**
	4/16/2010	0.35 U	0.33 U	0.19 U
	4/12/2022	NA	NA	NA
	4/7/2020	NA	NA	NA
	11/11/2020	NA	NA	NA
	4/14/2021	NA	NA	NA
	11/22/2021	NA	NA	NA
	4/12/2022	NA	NA	NA
	11/2/2022	NA	NA	NA
MW-15	11/6/2019	**33**	**16**	**2,300**
	4/7/2020	170 U	150 U	**5,400**
	11/11/2020	**63**	**22**	**1,600**
	4/15/2021	**30 J**	77 U	**2,100**
	11/22/2021	**60 J**	77 U	**3,100**
MW-16	7/15/2003	**3.2**	**0.77**	**120**
	8/11/2005	**0.59**	0.33 U	**0.52**
	4/12/2007	**0.68**	0.33 U	**6.9**
	9/24/2007	**41**	**4.4**	**900**
	4/15/2010	0.35 U	0.33 U	**3.4**
	3/30/2012	1.1 U	1.0 U	**0.72**
	7/2/2012	**8.1**	1.0 U	**150**
	9/14/2012	**3.3 J**	1.0 UJ	**25 J**
	3/22/2013	1.1 U	1.0 U	0.58 U
	11/21/2013	1.1 U	1.0 U	**1.1**
	5/29/2014	1.1 U	1.0 U	**42**
	10/14/2014	**16**	1.0 U	**340**
	6/30/2016	**10**	7.0 U	120 UB
	12/20/2016	7.5 U	7.0 U	27 UB
	5/15/2017	7.5 U	7.0 U	8.3 UB
	10/30/2017	**7.7**	7.0 U	**140**
	4/9/2018	7.5 U	7.0 U	4.0 U
	10/3/2018	7.5 U	7.0 U	**52**
	5/7/2019	7.5 UJ	7.0 UJ	**7.6 J**
	11/7/2019	7.5 U	7.0 U	**27**
	4/7/2020	7.5 U	7.0 U	**11**
	11/11/2020	7.5 U	7.0 U	**28**
	4/15/2021	7.5 U	7.0 U	**5.6**
	12/10/2021	7.5 U	7.0 U	4.0 U
	4/12/2022	NA	NA	NA
	11/2/2022	NA	NA	NA
MW-17	7/15/2003	0.35 U	0.33 U	**11**
	2/28/2006	0.35 U	0.33 U	**6.5**
	4/10/2007	0.35 U	0.33 U	**15**
	4/15/2010	0.35 U [0.35 U]	0.33 U [0.33 U]	**5.0 [5.4]**
	4/12/2022	NA	NA	NA
	4/7/2020	NA	NA	NA
	11/12/2020	NA	NA	NA
	4/15/2021	NA	NA	NA
	11/22/2021	NA	NA	NA
	4/12/2022	NA	NA	NA
	11/2/2022	NA	NA	NA

Table 7
Summary of MNA Parameters in Groundwater (July 2003- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)
MW-18	2/28/2006	**70**	**8.6**	**1,500**
	5/3/2006	**19**	**3.4**	**450**
	4/12/2007	**40**	**3.5**	**580**
	9/24/2007	**43**	**5.1**	**1,100**
	4/15/2010	**20**	**1.7**	**180**
	3/30/2012	**3.2**	1.0 U	**130**
	7/3/2012	**5.4**	1.0 U	**43**
	9/14/2012	**21 J**	**1.0 J**	**170 J**
	3/22/2013	1.1 U	1.0 U	0.58 U
	11/21/2013	**17**	**2.0**	**230**
	5/29/2014	1.1 U	1.0 U	**690**
	10/14/2014	**29**	**2.7**	**470**
	6/28/2016	150 U	140 U	**470**
	12/20/2016	75 U	70 U	90 UB
	5/15/2017	75 U	70 U	220 UB
	10/30/2017	170 U	150 U	**570**
	4/9/2018	170 U	150 U	**1,200**
	10/3/2018	**26**	7.0 U	**590 D**
	5/7/2019	**17 J**	7.0 UJ	**510 J**
	4/7/2020	**29**	7.0 U	**530**
	11/12/2020	**47**	**1.8 J**	**790**
	4/15/2021	**48**	**2.7 J**	**860 D**
	12/10/2021	**10**	7.0 U	**260**
	4/12/2022	**78**	**9.1**	**2,900**
	11/2/2022	**70**	**5.3**	**850**
MW-19	7/16/2003	**190**	**60**	**1,200**
	8/11/2005	**290**	**640**	**3,600**
	5/10/2006	**270**	**950**	**13,000**
	9/18/2007	**310**	**530**	**24,000**
	3/9/2011	**72**	**100**	**5,800**
	8/9/2011	**94**	**160 J**	**3,800 J**
	10/13/2011	**140**	**180**	**5,000 J**
	1/25/2012	**120**	**310**	**6,700**
	3/29/2012	**140 [180]**	**320 [410]**	**8,400 [11,000]**
	7/2/2012	**160 [160]**	**400 [380]**	**7,700 [7,500]**
	9/13/2012	**84 J [92 J]**	**180 J [190 J]**	**4,100 [4,400]**
	3/21/2013	**180 [200]**	**360 [400]**	**3,800 [4,100]**
	11/21/2013	**91 J [170 J]**	**170 J [300 J]**	**4,900 J [9,000 J]**
	5/29/2014	**350 [310]**	610 J [1.0 UJ]	**15,000 [14,000]**
	10/15/2014	**180 [180]**	**190 [180]**	**5,700 [5,400]**
	4/23/2015	**120 J [120 J]**	**130 J [130 J]**	**1,900 [2,100]**
	1/27/2016	NA	NA	**15,000 [17,000]**
	6/30/2016	**94 J [130 J]**	**81 J [110 J]**	**1,700 [2,400]**
	12/20/2016	380 U	350 U	430 UB
	5/16/2017	75 U [75 U]	29 J [70 U]	580 UB [460 UB]
	10/31/2017	**110 J [140 J]**	**56 J [78 J]**	**1,400 [1,600]**
	4/9/2018	**390 [350]**	**330 [300 J]**	**5,400 [4,900]**
	10/4/2018	**91 J [180 J]**	**120 J [210 J]**	**1,000 [1,300 D]**
	5/8/2019	**320 J [200 J]**	**310 J [320 J]**	**3,300 J [1,700 J]**
	11/6/2019	**300 [340]**	**380 J [380 J]**	**3,900 [4,900]**
	4/8/2020	**320 J [220 J]**	**320 J [260 J]**	**7,600 J [6,700]**
	11/12/2020	**270 J [170 J]**	**1,300 J [1,200]**	**4,900 [4,600]**
	4/15/2021	**610**	**560**	**10,000 D**
	11/23/2021	**670 [530 J]**	**250 [150 J]**	**8,400 [9,200]**
	4/12/2022	**1,100 D**	**1,100 D**	**13,000**
	11/3/2022	**530 [550]**	**520 [540]**	**6,000 [6,700]**

Table 7
Summary of MNA Parameters in Groundwater (July 2003- November 2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Location ID	Date Collected	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)
MW-20	10/31/2017	170 U	150 U	**5,400**
	4/10/2018	170 U	150 U	**550**
	11/6/2019	**4.4 J**	7.0 U	**640**
	4/7/2020	**8.0**	7.0 U	**2,000**
	11/12/2020	7.5 U	7.0 U	**93**
	4/15/2021	7.5 U	7.0 U	**880 D**
	11/23/2021	**5.3 J**	7.0 U	**1,400**
	4/12/2022	NA	NA	NA
	11/2/2022	NA	NA	NA
MW-21	4/16/2010	0.35 U	0.33 U	**0.89**
	4/12/2022	NA	NA	NA
	4/7/2020	NA	NA	NA
	11/11/2020	NA	NA	NA
	4/15/2021	NA	NA	NA
	11/22/2021	NA	NA	NA
	4/12/2022	NA	NA	NA
	11/2/2022	NA	NA	NA
MW-22	9/15/2017	**91 JF1**	**52 JF1**	**1,100**
	4/19/2018	**240 J**	**210 J**	**4,400**
MW-23	9/15/2017	**12**	**18**	**98**
	4/19/2018	170 U	150 U	**12,000 D**
	11/6/2019	**190**	7.0 U	**6,800**
	4/7/2020	**240**	77 U	**18,000**
	11/12/2020	**140 J**	150 U	**17,000**
	4/15/2021	**200 [190]**	77 U [77 U]	**15,000 [15,000 D]**
	11/22/2021	**98 J**	310 U	**15,000**
	4/13/2022	**260**	**25**	**26,000**
	11/3/2022	**220**	**8.6**	**21,000**
MW-24	9/15/2017	**13 [9.9]**	7.0 U [7.0 U]	**190 [160]**
	4/19/2018	170 U	**33 J**	**1,300**
	11/6/2019	**310**	**490**	**8,200**
	4/8/2020	**330**	**710**	**16,000**
	11/13/2020	**80 J**	**140 J**	**14,000**
	4/15/2021	330 U	310 U	**14,000 D**
	11/22/2021	660 U	620 U	**11,000**
	4/13/2022	**100**	**47**	**24,000**
	11/2/2022	**63**	**22**	**16,000**
MW-25	10/4/2018	**290**	**190**	**2,200 D**
	5/8/2019	**660 J**	**180 J**	**4,900 J**
	11/6/2019	**390**	**160**	**2,200**
	4/7/2020	**700**	**180**	**7,200**
	11/11/2020	**230 J**	310 U	**2,400**
	4/15/2021	**740**	**330**	**9,500 D**
	11/23/2021	**600**	**53 J**	**11,000**
	4/12/2022	**1,300 D**	**280**	**19,000**
	11/3/2022	**810 D**	**69**	**12,000**

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Location ID	Date Collected	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)
MW-A1	3/9/2011	**460 [500]**	**380 [420]**	**9,500 [11,000]**
	8/9/2011	**320 J [320]**	**250 J [250 J]**	**6,400 J [6,400 J]**
	10/13/2011	**440 J [520]**	**530 J [380]**	**15,000 J [10,000 J]**
	1/25/2012	**140**	**71**	**7,000**
	3/29/2012	**280**	**230**	**12,000**
	7/2/2012	**170**	**140**	**8,900**
	9/13/2012	**110 J**	**65 J**	**6,700**
	3/21/2013	**230**	**37**	**13,000**
	11/21/2013	**38**	**16**	**11,000**
	5/29/2014	**40**	**8.5**	**3,000**
	10/15/2014	**86**	**13**	**10,000**
	1/27/2016	NA	NA	**13,000**
	6/30/2016	380 U	350 U	5,400 UB
	12/20/2016	150 U	140 U	**2,600**
	5/16/2017	150 U	140 U	**2,300**
	10/31/2017	330 U	310 U	**12,000**
	4/19/2018	**100**	**21 J**	**7,500 D**
	10/4/2018	**340**	**49 J**	**17,000 D**
	5/8/2019	**400 J**	310 U	**14,000 J**
	11/6/2019	**300**	7.0 U	**6,800**
	4/8/2020	**260 J**	310 U	**16,000**
	11/11/2020	**200**	150 U	**8,900**
	4/15/2021	660 U	620 U	**14,000**
	11/23/2021	660 U	620 U	**16,000**
	4/12/2022	**350**	**16**	**20,000**
	11/3/2022	**220**	1.0 U	**13,000**
MW-B1	3/9/2011	**30**	1.0 U	**7,300**
	8/10/2011	**9.5**	**13 J**	**10,000 J**
	10/13/2011	**25**	**9.3**	**26,000 J**
	1/24/2012	**50**	**3.2**	**8,100**
	3/29/2012	**91**	1.0 U	**11,000**
	7/2/2012	**78**	1.0 U	**11,000**
	9/13/2012	**20 J**	1.0 UJ	**4,000**
	3/21/2013	**69**	1.0 U	**13,000**
	11/21/2013	**65**	1.0 U	**13,000**
	5/29/2014	1.1 U	1.0 U	**4,100**
	10/15/2014	**110**	**4.2**	**7,000**
	4/22/2015	**33 J**	**2.9 J**	**3,500**
	1/27/2016	NA	NA	**13,000**
	6/28/2016	380 U	350 U	**5,100**
	12/21/2016	380 U	350 U	**2,100**
	5/16/2017	75 U	70 U	**950**
	10/30/2017	170 U	150 U	**5,300**
	4/10/2018	750 U	700 U	**13,000**
	10/3/2018	750 U	700 U	**10,000**
	5/7/2019	**40 J**	77 UJ	**5,000 J**
	11/6/2019	**48 J**	77 U	**2,700**
	4/8/2020	**29 J**	77 U	**2,900**
	11/12/2020	83 U	77 U	**12,000**
	4/15/2021	170 U	150 U	**17,000 D**
	11/22/2021	170 U	150 U	**13,000**
	4/13/2022	**55**	**2.7**	**7,100**
	11/3/2022	**43**	**4.0**	**4,200**

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Location ID	Date Collected	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)
PZ-6	2/28/2006	**120**	**5.7**	**1,100**
	5/3/2006	**14**	0.33 U	**1.5**
	9/14/2007	**85**	**2.4**	**1,200**
	12/20/2016	7.5 U	7.0 U	42 UB

NOTES:

1. Bold results denote detections.
2. Duplicate sample results are in brackets.
3. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

MNA = monitored natural attenuation
NA = not analyzed
NS = not sampled
µg/L = micrograms per liter
D = Compound quantitated using a secondary dilution.
J = Indicates an estimated value.
U = Undetected; result is less than the project quantitation limit or if estimated results (J flags) are to be reported, less than the method detection limit.
UB = Compound considered nondetect at the listed value due to associated blank contamination.

Table 8
Summary of Volatile Organic Compounds (2010-2022)
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Ashland Inc.
130 South Street, Rensselaer, New York

Location ID:	NYSDEC TOGS 1.1.1	Units	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3	IMP-3
Date Collected:	Water		04/15/10	03/09/11	08/10/11	10/14/11	01/24/12	03/30/12	07/03/12	09/14/12	03/22/13	11/21/13	05/29/14	10/14/14	01/27/16	06/30/16	12/20/16	05/15/17	10/30/17	04/09/18	10/03/18	02/19/19	05/07/19	08/07/19	11/07/19	04/07/20	11/12/20	04/15/21	12/10/21	04/12/22	11/02/22
Detected Volatile Organics																															
1,1,1-Trichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 U	10 U	20 U	10 U	10 U
2-Hexanone	50	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
4-Methyl-2-pentanone	- -	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	10 U
Acetone	50	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	10 U	5.0 U	10 U	10 U	10 U	10 UB	5.0 UB	**3.3 J**	10 UB	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	**0.35 J**	1.0 U
Carbon Disulfide	- -	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	5.0 U
Chloroform	7	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	5.0 UB
Toluene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	1.0 U	1.0 U
Tetrachloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	0.50 U	0.50 U
Trichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	**1.8**	**6.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**	**0.43 J**	**3.1**	**1.0**	**1.7**	**0.38 J**	**0.58 J**	**0.44 J**	**0.34 J**	1.0 U	**0.76 J**	**2.4**	**17**	**1.8**
cis-1,2-Dichloroethene	5	ug/L	**14**	**27**	**4.0**	**1.9**	**7.2**	**10**	1.0 U	**36**	**1.6**	1.0 U	**6.0**	**160**	**66**	**58**	**120 D**	**80**	**78**	**130 D**	**72**	**68**	**14**	**53**	**16**	**11**	**47**	**120 D**	**90**	**170**	**42**
trans-1,2-Dichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.0**	1.0 U	1.0 U	1.0 U	**2.3**	1.0 U	**0.93 J**	1.0 U	**1.0**	**0.83 J**	**1.9**	**0.91 J**	**1.7**	1.0 U	**1.0**	1.0 U	1.0 U	1.0 U	**1.7**	2.0 U	**2.5**	**0.75 J**
Vinyl Chloride	2	ug/L	**2.7**	**6.4**	**1.2**	1.0 U	1.0 U	**1.7**	1.0 U	**3.6**	1.0 U	1.0 U	1.0 U	**15**	**7.8**	**8.4**	1.0 U	**10**	**2.3**	**5.7**	**5.9**	**14**	**1.9**	**7.5**	**2.1**	**2.1**	**2.7**	**13**	**13**	**38**	**15**
Total VOCs	- -	ug/L	**19**	**40**	**5.2**	**1.9**	**7.2**	**12**	ND	**41**	**1.6**	ND	**6.0**	**180**	**74**	**67 J**	**120**	**92**	**82 J**	**140 J**	**83 J**	**85.4**	**16.28 J**	**62.08 J**	**18.54 J**	**13.44 J**	**49.7**	**135.46 J**	**105.4**	**227.85**	**59.55**

NOTES:
1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.
2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).
3. Shaded cells denote results in exceedance of criteria. Bold values are

NA = not analyzed

ND = non detected

NYSDEC = New York State Department of Environmental Conservation

TOGS = Technical and Operational Guidance Series

VOC = volatile organic compound.

[ ] = Duplicate results are shown in brackets.

- - = no standard/guidance value

D = Compound quantitated using a secondary dilution.

F1 = MS and/or MSD Recovery is outside acceptable Limits.

J = Indicates an estimated value.

R = The sample results were rejected

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UB =Compound considered nondetect at the listed value due to associated blank contamination.

UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (2010-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	IP-1 04/15/10	IP-1 03/09/11	IP-1 08/10/11	IP-1 10/14/11	IP-1 01/24/12	IP-1 03/30/12	IP-1 07/03/12	IP-1 09/14/12	IP-1 03/22/13	IP-1 11/21/13	IP-1 05/29/14	IP-1 10/14/14	IP-1 01/27/16	IP-1 06/28/16	IP-1 12/20/16	IP-1 05/15/17	IP-1 10/30/17	IP-1 04/09/18	IP-1 10/03/18	IP-1 02/19/19	IP-1 05/07/19	IP-1 08/07/19	IP-1 11/07/19	IP-1 04/07/20	IP-1 11/12/20	IP-1 04/15/21	IP-1 12/10/21	IP-1 04/12/22	IP-1 11/02/22
Detected Volatile Organics																															
1,1,1-Trichloroethane	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
2-Butanone	- -	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U	10 U	20 U	100 U	100 U [100 U]	100 U	5.0 U	10 U	10 U	40 U	10 U	50 U*	50 U	50 U	50 U	50 U	50 U	10 U [50 U]	10 U
2-Hexanone	50	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	25 U	10 U	10 U	50 U	50 U [50 U]	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	25 U	25 U	25 U	25 U	25 U	25 U	10 U [50 U]	10 U
4-Methyl-2-pentanone	- -	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	25 U	10 U	10 U	50 U	50 U [50 U]	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	25 U	25 U	25 U	25 U	25 U	25 U	10 U [50 U]	10 U
Acetone	50	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 UJ	50 U	10 U	20 U	100 U	100 U [100 U]	100 U	5.0 UB	**3.4 J**	10 UB	40 U	10 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U [50 U]	10 U
Benzene	1	ug/L	2.0 U	2.0 U	**2.1**	**2.1**	2.0 U	**2.1**	**2.7**	**2.8**	**2.0**	**2.5 J**	5.0 U	**2.1**	2.0 U	10 U	10 U [10 U]	10 U	**2.0**	**1.5**	**1.9**	4.0 U	**1.6**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.95 J [2.0 J]**	**1.1**
Carbon Disulfide	- -	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U [10 U]	2.0 U
Carbon Tetrachloride	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Chlorobenzene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Chloroethane	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	5.0 U	2.0 UJ	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ [25 UJ]	5.0 U
Chloroform	7	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Ethylbenzene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Methylene Chloride	5	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	**12 J**	2.0 U	2.0 U	10 U	10 U [10 U]	**9.6 J**	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [25 U]	5.0 U
Toluene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
Xylenes (total)	5	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	10 U	4.0 U	4.0 U	20 U	20 U [20 U]	20 U	2.0 U	2.0 U	2.0 U	8.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	1.0 U [5.0 U]	1.0 U
Tetrachloroethene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U [2.5 U]	0.50 U
Trichloroethene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 UJ	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
1,1-Dichloroethane	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
1,1-Dichloroethene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	**0.64 J**	**0.49 J**	**0.37 J**	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U [5.0 U]	1.0 U
1,2-Dichloroethane	0.6	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	10 U	10 U [10 U]	10 U	**0.56 J**	**0.34 J**	**0.39 J**	4.0 U	**0.37 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.34 J** [5.0 U]	**0.45 J**
cis-1,2-Dichloroethene	5	ug/L	**200**	**210**	**250**	**360**	**220**	**190**	**290**	**420 D**	**240**	**530 DJ**	**390**	**570**	**420 DJ**	**510**	**520 [530]**	**280**	**500**	**350 D**	**370 D**	**310**	**300 D**	**330**	**340**	**270**	**360**	**310**	**280**	**180 [150]**	**240 EJ**
trans-1,2-Dichloroethene	5	ug/L	**3.5**	**4.1**	**4.8**	**6.7**	**3.8**	**3.8**	**5.8**	**9.0**	**3.9**	**12 J**	5.0 U	**7.0**	**4.8**	10 U	10 U [10 U]	10 U	**6.0**	**4.6**	**6.4**	**5.0**	**4.1**	5.0 U	5.0 U	5.0 U	**4.5 J**	5.0 U	5.0 U	**1.8** [5.0 U]	**1.9**
Vinyl Chloride	2	ug/L	**68**	**83**	**110**	**240**	**120**	**160**	**220**	**260 D**	**190**	**190 J**	**180**	**150**	**110**	**110**	**110 [140]**	**63**	**80**	**68**	**65**	**83**	**81**	**66**	**61**	**85**	**65**	**73**	**86**	**76 J [48 J]**	**77**
Total VOCs	- -	ug/L	**270**	**300**	**370**	**610**	**340**	**360**	**520**	**690**	**440**	**730 J**	**580 J**	**730**	**530 J**	**620**	**630 [670]**	**350 J**	**590 J**	**430 J**	**450 J**	**398**	**385.47 J**	**396**	**401**	**355**	**429.5 J**	**383**	**366**	**259.09 [200]**	**320.45**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.
NA = not analyzed
ND = non detected
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Series
VOC = volatile organic compound.
[ ] = Duplicate results are shown in brackets.
- - = no standard/guidance value
D = Compound quantitated using a secondary dilution.
F1 = MS and/or MSD Recovery is outside acceptable Limits.
J = Indicates an estimated value.
R = The sample results were rejected
E = Results exceed the calibration range
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UB =Compound considered nondetect at the listed value due to associated blank contamination.
UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (2010-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	IW-A2 01/25/12	IW-A2 03/29/12	IW-A2 07/02/12	IW-A2 09/13/12	IW-A2 03/22/13	IW-A2 11/21/13	IW-A2 05/29/14	IW-A2 10/15/14	IW-A2 04/23/15	IW-A2 01/27/16	IW-A2 06/30/16	IW-A2 12/21/16	IW-A2 05/16/17	IW-A2 10/31/17	IW-A2 04/10/18	IW-A2 10/04/18	IW-A2 05/08/19	IW-A2 11/07/19	IW-A2 04/08/20	IW-A2 11/12/20	IW-A2 04/15/21	IW-A2 11/22/21	IW-A2 04/12/22	IW-A2 11/03/22
Detected Volatile Organics																										
1,1,1-Trichloroethane	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**1.4**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	50 U	**0.28 J**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
2-Butanone	- -	ug/L	**79**	**890**	**800**	**710**	10 U	**630**	100 U	5.0 UJ	5.0 UJ	**240**	**460**	400 U	500 U	**10**	500 U	R	200 U	400 U	400 U	400 U	200 U	200 UJJ	50 UJ	10 UJ
2-Hexanone	50	ug/L	10 U	100 U	100 U	**56**	10 U	50 U	50 U	5.0 UJ	5.0 UJ	25 U	**70 J**	200 U	250 U	5.0 U	250 U	R	100 U	200 U	200 U	400 U	100 U	100 UJJ	50 UJ	10 UJ
4-Methyl-2-pentanone	- -	ug/L	10 U	100 U	**180**	50 U	10 U	50 U	50 U	5.0 UJ	5.0 UJ	25 U	200 U	200 U	250 U	5.0 U	250 U	R	100 U	200 U	200 U	400 U	100 U	100 UJJ	50 UJ	10 UJ
Acetone	50	ug/L	25 U	**290**	**750**	**2,000**	25 U	**350**	100 U	5.0 UJ	5.0 UJ	**220**	**850**	400 U	500 U	**49**	500 U	R	200 U	400 U	400 U	800 U	200 U	200 UJJ	50 UJ	10 UJ
Benzene	1	ug/L	**3.3**	**23**	**22**	**23**	**18**	**27**	**11**	**7.3 J**	**11 J**	**6.1**	**23 J**	**50**	50 U	**13**	50 U	R	**13 J**	40 U	40 U	80 U	20 U	**13 J**	**7.9 J**	**8.7 J**
Carbon Disulfide	- -	ug/L	2.0 U	20 U	20 U	10 U	2.0 U	10 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**3.5**	50 U	R	20 UB	40 U	40 U	80 U	20 U	20 UJJ	10 UJ	2.0 UJ
Carbon Tetrachloride	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
Chlorobenzene	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**2.7**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
Chloroethane	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	25 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	25 UJ	5.0 UJ
Chloroform	7	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	50 U	**1.1**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	**0.69 J**
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
Ethylbenzene	5	ug/L	**4.5**	**13**	10 U	**9.0**	**14**	**17**	10 U	**5.1 J**	**2.5 J**	5.0 U	40 U	40 U	50 U	**4.0**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJJ	5.0 UJ	1.0 UJ
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	50 U	**3.8**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	**4.2 J**	**3.4 J**
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	50 U	**1.6**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	**0.65 J**
Methylene Chloride	5	ug/L	5.0 U	50 U	50 U	25 U	5.0 U	25 U	10 UJ	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	25 UJ	5.0 UJ
Toluene	5	ug/L	**1.7**	10 U	10 U	**8.2**	**5.1**	**6.6**	10 U	**2.2 J**	**1.1 J**	5.0 U	40 U	40 U	50 U	**2.5**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
Xylenes (total)	5	ug/L	**58**	**180**	**95**	**85**	**210**	**160**	**120**	**77 J**	**160 J**	10 U	**42 J**	**190**	**85 J**	**45**	**73 J**	**42 J**	**25 J**	**43 J**	**36 J**	160 U	**17 J**	**27 J**	**16 J**	**6.9 J**
Tetrachloroethene	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**1.0**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	2.5 UJ	0.50 UJ
Trichloroethene	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**70**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
1,1-Dichloroethane	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
1,1-Dichloroethene	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
1,2-Dichloroethane	0.6	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	1.0 U	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
cis-1,2-Dichloroethene	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**17**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
trans-1,2-Dichloroethene	5	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**0.19 J**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
Vinyl Chloride	2	ug/L	1.0 U	10 U	10 U	5.0 U	1.0 U	5.0 U	10 U	1.0 UJ	1.0 UJ	5.0 U	40 U	40 U	50 U	**2.2**	50 U	R	20 U	40 U	40 U	80 U	20 U	20 UJ	5.0 UJ	1.0 UJ
Total VOCs	- -	ug/L	**150**	**1,400**	**1,800**	**2,900**	**250**	**1,200**	**130**	**92 J**	**170 J**	**470**	**1,400 J**	**240**	**85 J**	**220 J**	**73 J**	**42 J**	**38 J**	**43 J**	**36 J**	ND	**17 J**	**40 J**	**28.1**	**20.34**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed

ND = non detected

NYSDEC = New York State Department of Environmental Conservation

TOGS = Technical and Operational Guidance Series

VOC = volatile organic compound.

[ ] = Duplicate results are shown in brackets.

- - = no standard/guidance value

D = Compound quantitated using a secondary dilution.

F1 = MS and/or MSD Recovery is outside acceptable Limits.

J = Indicates an estimated value.

R = The sample results were rejected

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UB =Compound considered nondetect at the listed value due to associated blank contamination.

UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (2010-2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	IW-B3 01/24/12	IW-B3 03/29/12	IW-B3 07/02/12	IW-B3 09/13/12	IW-B3 03/21/13	IW-B3 11/21/13	IW-B3 05/29/14	IW-B3 10/15/14	IW-B3 04/22/15	IW-B3 01/27/16	IW-B3 06/30/16	IW-B3 12/21/16	IW-B3 05/16/17	IW-B3 10/31/17	IW-B3 04/10/18	IW-B3 10/03/18	IW-B3 05/08/19	IW-B3 11/06/19	IW-B3 04/07/20	IW-B3 11/13/20	IW-B3 04/14/21	IW-B3 11/22/21	IW-B3 04/13/22	IW-B3 11/03/22	MW-1 12/20/16	MW-1 10/30/17	MW-1 04/10/18	MW-1 04/14/21
Detected Volatile Organics																														
1,1,1-Trichloroethane	5	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	**6.8**	2.0 U	20 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
2-Butanone	- -	ug/L	**1,500**	**220**	**820 D**	**540**	100 U	**130**	100 U	5.0 U	10 UJ	**36**	**3,300**	400 U	1,000 U	**3.6 J**	4,000 U	R	400 U	2,000 U	200 U	500 U	200 U	200 U	10 U	10 U	100 U	10 U	20 U	200 U
2-Hexanone	50	ug/L	**660**	10 U	**33**	100 U	100 U	**24**	**60**	5.0 U	10 UJ	5.0 U	**370**	200 U	500 U	5.0 U	2,000 U	R	200 U	1,000 U	100 U	250 U	100 U	100 U	10 U	10 U	50 U	10 U	10 U	100 U
4-Methyl-2-pentanone	- -	ug/L	200 U	10 U	10 U	100 U	100 U	10 U	50 U	5.0 U	10 UJ	5.0 U	200 U	200 U	500 U	5.0 U	2,000 U	R	200 U	1,000 U	100 U	250 U	100 U	100 U	10 U	10 U	50 U	10 U	10 U	100 U
Acetone	50	ug/L	500 U	**230**	**290**	**410**	250 U	**300**	**120**	**21**	10 UJ	**19 J**	**4,000**	400 U	1,000 U	22 UB	4,000 U	R	400 U	2,000 U	200 U	500 U	200 U	200 U	10 U	10 U	100 U	10 UB	20 U	200 U
Benzene	1	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	**0.22 J**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	**0.34 J**	10 U	2.0 U	2.0 U	20 U
Carbon Disulfide	- -	ug/L	40 U	2.0 U	2.0 U	20 U	20 U	2.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	**5.1**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	2.0 U	2.0 U	10 U	**0.63 J**	2.0 U	20 U
Carbon Tetrachloride	5	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Chlorobenzene	5	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Chloroethane	5	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	5.0 U	10 U	1.0 UJ	2.0 UJ	1.0 U	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	5.0 UJ	5.0 U	10 U	2.0 U	2.0 U	20 U
Chloroform	7	ug/L	20 U	**2.8**	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	**7.9**	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Ethylbenzene	5	ug/L	20 U	**1.4**	**1.1**	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	**1.2**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Methylene Chloride	5	ug/L	100 U	**5.0**	5.0 U	50 U	50 U	5.0 U	**19 J**	1.0 U	2.0 UJ	**3.1**	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	5.0 U	10 UB	10 U	2.0 U	2.0 U	20 U
Toluene	5	ug/L	**120**	**53**	**260 D**	**2,000 D**	**690**	**190**	**240**	**19**	2.0 UJ	**1.5**	40 U	40 U	100 U	**36**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	2.0 U	2.0 U	20 U
Xylenes (total)	5	ug/L	40 U	2.0 U	2.0 U	20 U	20 U	2.0 U	20 U	2.0 U	4.0 UJ	2.0 U	80 U	80 U	200 U	**2.4**	800 U	R	80 U	400 U	40 U	100 U	40 U	40 U	1.0 U	1.0 U	20 U	4.0 U	4.0 U	40 U
Tetrachloroethene	5	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	**0.25 J**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	0.50 U	0.50 U	**4.6 J**	**12**	**0.95 J**	20 U
Trichloroethene	5	ug/L	20 U	1.0 U	**1.0**	10 U	10 U	1.0 U	10 U	1.0 UJ	2.0 UJ	1.0 U	40 U	40 U	100 U	**11**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	**120**	**180**	**34**	20 U
1,1-Dichloroethane	5	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	**3.1**	**1.6 J**	20 U
1,1-Dichloroethene	5	ug/L	20 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	1.0 U	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	**17**	**2.1**	20 U
1,2-Dichloroethane	0.6	ug/L	20 U	**5.9**	**6.2**	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	**0.26 J**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	**0.55 J**	10 U	**0.54 J**	2.0 U	20 U
cis-1,2-Dichloroethene	5	ug/L	**30**	**20**	**20**	**11**	10 U	**2.9**	10 U	1.0 U	2.0 UJ	**1.1**	40 U	40 U	100 U	**1.7**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	**290**	**660**	**160**	20 U
trans-1,2-Dichloroethene	5	ug/L	20 U	**1.6**	**2.0**	10 U	10 U	1.0 U	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	**0.23 J**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	1.0 U	1.0 U	10 U	**3.0**	2.0 U	20 U
Vinyl Chloride	2	ug/L	20 U	**8.2**	**6.4**	10 U	10 U	**2.0**	10 U	1.0 U	2.0 UJ	1.0 U	40 U	40 U	100 U	**0.13 J**	400 U	R	40 U	200 U	20 U	50 U	20 U	20 U	**0.83 J**	1.0 U	10 U	**9.0**	**7.4**	20 U
Total VOCs	- -	ug/L	**2,300**	**550**	**1,400**	**3,000**	**690**	**650**	**440 J**	**40**	ND	**69 J**	**7,700**	ND	ND	**62 J**	ND	R	NA	ND	ND	ND	ND	ND	**0.83**	**0.89 J**	**410 J**	**892 J**	**206.05**	ND

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed
ND = non detected
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Series
VOC = volatile organic compound.
[ ] = Duplicate results are shown in brackets.
- - = no standard/guidance value
D = Compound quantitated using a secondary dilution.
F1 = MS and/or MSD Recovery is outside acceptable Limits.
J = Indicates an estimated value.
R = The sample results were rejected
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UB =Compound considered nondetect at the listed value due to associated blank contamination.
UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-13 04/16/10	MW-13 03/09/11	MW-13 08/09/11	MW-13 10/14/11	MW-13 01/25/12	MW-13 03/29/12	MW-13 07/02/12	MW-13 09/13/12	MW-13 03/21/13	MW-13 11/21/13	MW-13 05/29/14	MW-13 10/15/14	MW-13 04/22/15	MW-13 01/27/16	MW-13 06/28/16	MW-13 12/20/16	MW-13 05/16/17	MW-13 10/31/17	MW-13 04/10/18	MW-13 10/04/18	MW-13 05/07/19	MW-13 11/06/19	MW-13 04/07/20	MW-13 11/11/20	MW-13 04/14/21	MW-13 11/22/21	MW-13 04/12/22	MW-13 11/02/22	MW-15 11/06/19	MW-15 04/07/20	MW-15 11/12/20	MW-15 04/15/21	MW-15 11/22/21
Detected Volatile Organics																																			
1,1,1-Trichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	- -	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	**16**	5.0 U	5.0 U	10 U	10 U	10 U	10 UB	5.0 UB	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3.6 J**	10 U
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.4**	**5.3**	**13**	**5.4**	**5.3**
Carbon Disulfide	- -	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.57 J**	1.0 U	**0.96 J**	1.0 U	**1.5**
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.27 J**	**0.65 J**	**0.70 J**	**0.40 J**	**1.1**
Methylene Chloride	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	18 UB	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**1.6 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.6**	1.0 U	**4.5**	**1.4**	1.0 U
1,1-Dichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.67 J**	**0.43 J**	**1.3**	1.0 U	**0.67 J**
1,1-Dichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.55 J**	**0.56 J**	1.0 U	**0.91 J**	**0.35 J**
cis-1,2-Dichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**18**	**10**	**10**	**23**	**8.1**
trans-1,2-Dichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**19**	**17**	**6.5**	**21**	**13**
Total VOCs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**16**	ND	ND	ND	ND	ND	ND	ND	ND	**1.6 J**	ND	ND	ND	ND	ND	ND	ND	ND	**50.16**	**33.94 J**	**36.96 J**	**52.11 J**	**30.02 J**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.
2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).
3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed
ND = non detected
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Series
VOC = volatile organic compound.
[ ] = Duplicate results are shown in brackets.
- - = no standard/guidance value
D = Compound quantitated using a secondary dilution.
F1 = MS and/or MSD Recovery is outside acceptable Limits.
J = Indicates an estimated value.
R = The sample results were rejected
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UB =Compound considered nondetect at the listed value due to associated blank contamination.
UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-16 04/15/10	MW-16 03/08/11	MW-16 08/09/11	MW-16 10/14/11	MW-16 01/24/12	MW-16 03/30/12	MW-16 07/02/12	MW-16 09/14/12	MW-16 03/22/13	MW-16 11/21/13	MW-16 05/29/14	MW-16 10/14/14	MW-16 01/27/16	MW-16 06/30/16	MW-16 12/20/16	MW-16 05/15/17	MW-16 10/30/17	MW-16 04/09/18	MW-16 10/03/18	MW-16 02/19/19	MW-16 05/07/19	MW-16 08/08/19	MW-16 11/07/19	MW-16 04/07/20	MW-16 11/11/20	MW-16 04/15/21	MW-16 12/10/21	MW-16 04/12/22	MW-16 11/02/22
Detected Volatile Organics																															
1,1,1-Trichloroethane	5	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	**0.50 J**	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	10 U	10 U	50 U	50 U	10 U	10 U	20 U	50 U	10 U	50 U	10 U	5.0 U	10 U	80 U	10 U	20 U	5.0 U	10 U	10 U	20 U	10 U	10 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	10 U	10 U	50 U	50 U	10 UJ	10 U	20 U	50 U	10 U	50 U	5.0 U	5.0 U	5.0 U	40 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	- -	ug/L	10 U	10 U	50 U	50 U	10 U	10 U	20 U	50 U	10 U	50 U	5.0 U	5.0 U	5.0 U	40 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	50	ug/L	25 U	25 U	130 U	130 U	25 U	25 U	50 U	130 U	25 U	130 U	10 U	5.0 U	10 U	80 U	10 U	20 U	5.0 UB	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	**0.50 J**	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	- -	ug/L	2.0 U	2.0 U	10 U	10 U	2.0 U	2.0 U	4.0 U	10 U	2.0 U	10 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	1.0 U	1.0 U	5.0 UJ	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	25 U	1.0 U	1.0 UJ	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 UJ	5.0 U
Chloroform	7	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	5.0 U	5.0 U	25 U	25 U	5.0 U	5.0 U	10 U	25 U	5.0 U	25 U	1.0 UJ	1.0 U	1.0 U	8.0 U	1.0 U	**1.4 J**	1.0 U	1.0 U	1.0 U	**1.1 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Toluene	5	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	10 U	10 U	2.0 U	2.0 U	4.0 U	10 U	2.0 U	10 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Tetrachloroethene	5	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U
Trichloroethene	5	ug/L	**7.3**	**15**	**35**	**35**	**16**	**18**	**45**	**44**	**1.9**	**32**	**6.8**	**21 J**	**13**	**27**	**9.9**	**16**	**30**	**20**	**21**	**5.6**	**1.3**	**11**	**1.2**	**2.6**	**4.3**	**18**	**2.0**	**8.5**	**4.4**
1,1-Dichloroethane	5	ug/L	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	8.0 U	1.0 U	2.0 U	**0.57 J**	1.0 U	**0.40 J**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	ug/L	1.0 U	**1.1**	5.0 U	5.0 U	**1.1**	**1.3**	**3.8**	5.0 U	1.0 U	5.0 U	1.0 U	**3.3**	1.0 U	8.0 U	1.0 U	**0.70 J**	**2.4**	**1.1**	**1.2**	2.0 U	1.0 U	**0.46 J**	1.0 U	1.0 U	1.0 U	**1.0**	1.0 U	**0.72 J**	1.0 U
1,2-Dichloroethane	0.6	ug/L	1.0 U	**1.4**	5.0 U	5.0 U	**1.7**	**2.2**	**6.8**	5.0 U	1.0 U	**6.0**	1.0 U	**4.8**	**1.3**	**3.7 J**	**0.62 J**	**0.95 J**	**3.1**	**1.3**	**1.6**	2.0 U	1.0 U	**0.68 J**	1.0 U	1.0 U	**0.40 J**	**1.3**	1.0 U	**0.93 J**	**0.50 J**
cis-1,2-Dichloroethene	5	ug/L	**66**	**160**	**350**	**380**	**180**	**170 D**	**420 D**	**410**	**17**	**360**	**65**	**440**	**160 D**	**330**	**77**	**130**	**330**	**160 D**	**230 D**	**45**	**8.6**	**70**	**7.5**	**18**	**38**	**190 D**	**9.2**	**90**	**35**
trans-1,2-Dichloroethene	5	ug/L	1.0 U	**1.7**	5.0 U	5.0 U	**3.4**	**1.6**	**4.4**	**5.4**	1.0 U	5.0 U	1.0 U	**4.1**	1.0 U	8.0 U	1.0 U	2.0 U	**3.4**	**1.7**	**2.7**	**2.1**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.2**	1.0 U	**0.99 J**	1.0 U
Vinyl Chloride	2	ug/L	1.0 U	**2.6**	**11**	**6.2**	**2.1**	1.0 U	**11**	**14**	1.0 U	5.0 U	1.0 U	**16**	1.0 U	**8.0**	**1.7**	2.0 U	**8.6**	1.0 U	**4.0**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1**	**2.0**	1.0 U	**1.7**	1.0 U
Total VOCs	- -	ug/L	**73**	**180**	**400**	**420**	**200**	**190**	**490**	**470**	**19**	**400**	**72**	**490 J**	**170**	**370 J**	**89 J**	**150 J**	**380 J**	**180**	**260 J**	**53.8 J**	**9.9**	**82.14 J**	**8.7**	**20.6**	**43.8 J**	**213.5 D**	**11.2**	**102.84**	**39.9**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed

ND = non detected

NYSDEC = New York State Department of Environmental Conservation

TOGS = Technical and Operational Guidance Series

VOC = volatile organic compound.

[ ] = Duplicate results are shown in brackets.

- - = no standard/guidance value

D = Compound quantitated using a secondary dilution.

F1 = MS and/or MSD Recovery is outside acceptable Limits.

J = Indicates an estimated value.

R = The sample results were rejected

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UB =Compound considered nondetect at the listed value due to associated blank contamination.

UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-17 04/15/10	MW-17 03/08/11	MW-17 08/09/11	MW-17 10/13/11	MW-17 01/24/12	MW-17 03/30/12	MW-17 07/02/12	MW-17 09/13/12	MW-17 03/22/13	MW-17 11/21/13	MW-17 05/29/14	MW-17 10/15/14	MW-17 04/22/15	MW-17 01/27/16	MW-17 06/28/16	MW-17 05/15/17	MW-17 10/30/17	MW-17 04/09/18	MW-17 10/03/18	MW-17 05/08/19	MW-17 11/06/19	MW-17 04/07/20	MW-17 11/12/20	MW-17 04/15/21	MW-17 11/22/21	MW-17 04/12/22	MW-17 11/02/22
Detected Volatile Organics																													
1,1,1-Trichloroethane	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	10 U [10 U]	10 U	10 U	10 UJ	10 U [10 U]	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	10 U	10 U	10 U	5.0 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	10 U [10 U]	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	- -	ug/L	10 U [10 U]	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	50	ug/L	25 U [25 U]	25 U	25 U	25 UJ	25 U [25 U]	25 U	25 U	25 U	25 U	25 U	10 U	5.0 U	5.0 U	10 U	10 U	10 UB	5.0 UB	**3.2 J**	20 UB	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	- -	ug/L	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Chloroform	7	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Toluene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Tetrachloroethene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U
Trichloroethene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.25 J**	1.0 U
trans-1,2-Dichloroethene	5	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	ug/L	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs	- -	ug/L	ND [ND]	ND	ND	ND	ND [ND]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.2 J**	**6.1 J**	ND	ND	ND	ND	ND	ND	**0.25**	ND

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.
2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).
3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

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Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-18 04/15/10	MW-18 03/09/11	MW-18 08/10/11	MW-18 10/14/11	MW-18 01/24/12	MW-18 03/30/12	MW-18 07/03/12	MW-18 09/14/12	MW-18 03/22/13	MW-18 11/21/13	MW-18 05/29/14	MW-18 10/14/14	MW-18 01/27/16	MW-18 06/28/16	MW-18 12/20/16	MW-18 05/15/17	MW-18 10/30/17	MW-18 04/09/18	MW-18 10/03/18	MW-18 02/19/19	MW-18 05/07/19	MW-18 08/07/19	MW-18 11/07/19	MW-18 04/07/20	MW-18 11/12/20	MW-18 04/15/21	MW-18 12/10/21	MW-18 04/12/22	MW-18 11/02/22
Detected Volatile Organics																															
1,1,1-Trichloroethane	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
2-Butanone	- -	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	10 U	10 U	20 U	20 U	20 U	5.0 U	10 U	80 U	80 U	100 U	5.0 U	10 U	10 U	40 U	10 U	50 U*	50 U	50 U	50 U	50 U	50 U	10 U	50 U
2-Hexanone	50	ug/L	20 U	20 U	20 U	20 U	20 UJ	20 U	10 U	10 U	20 U	20 U	10 U	5.0 U	5.0 U	40 U	40 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	25 U	25 U	25 U	25 U	25 U	25 U	10 U	50 U
4-Methyl-2-pentanone	- -	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	10 U	10 U	20 U	20 U	10 U	5.0 U	5.0 U	40 U	40 U	50 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	25 U	25 U	25 U	25 U	25 U	25 U	10 U	50 U
Acetone	50	ug/L	50 U	50 U	50 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	20 U	5.0 U	10 U	80 U	80 UJ	100 U	5.0 UB	**3.2 J**	10 U	40 U	10 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U	50 U
Benzene	1	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	**1.0**	2.0 U	2.0 U	2.0 U	**1.2**	1.0 U	8.0 U	8.0 U	10 U	**1.1**	**1.0**	**1.2**	4.0 U	**0.76 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.67 J**	5.0 U
Carbon Disulfide	- -	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 UJ	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U	10 U
Carbon Tetrachloride	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Chlorobenzene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Chloroethane	5	ug/L	2.0 U	2.0 U	2.0 UJ	**79 J**	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	10 U	2.0 U	1.0 UJ	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	25 U
Chloroform	7	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Ethylbenzene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	**11**
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
Methylene Chloride	5	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	10 U	10 U	**3.8 J**	1.0 U	1.0 U	8.0 U	8.0 UJ	**6.3 J**	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Toluene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	**6.6**
Xylenes (total)	5	ug/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	16 U	16 U	20 U	2.0 U	2.0 U	2.0 U	8.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	10 U	1.0 U	**71**
Tetrachloroethene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.50 U	2.5 U
Trichloroethene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 UJ	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
1,1-Dichloroethane	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
1,1-Dichloroethene	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	8.0 U	8.0 U	10 U	**0.58 J**	**0.49 J**	**0.44 J**	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
1,2-Dichloroethane	0.6	ug/L	**3.8**	**3.0**	2.0 U	2.0 U	2.0 U	2.0 U	**1.1**	1.0 U	2.0 U	**2.3**	**2.4**	1.0 U	1.0 U	8.0 U	8.0 U	10 U	**0.47 J**	**0.54 J**	**1.2**	4.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U
cis-1,2-Dichloroethene	5	ug/L	**280**	**310**	**120**	**310**	**200**	**220**	**96**	**390 D**	**250**	**350**	**330 D**	**430**	**330 D**	**410**	**440**	**360**	**420**	**420 D**	**380 D**	**290**	**240 D**	**290**	**330**	**290**	**350**	**380**	**310**	**180 D**	**250**
trans-1,2-Dichloroethene	5	ug/L	**3.9**	**3.2**	**2.4**	**5.2**	**2.4**	**2.1**	**2.0**	**6.7**	**4.3**	**5.3**	**6.1**	**4.9**	**3.5**	8.0 U	8.0 U	10 U	**4.3**	**7.3**	**2.5**	**9.2**	**1.7**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**1.3**	5.0 U
Vinyl Chloride	2	ug/L	**49**	**15**	**30**	**92**	2.0 U	**17**	**28**	**110 D**	**32**	**79**	**120**	**170**	**69**	**110**	**150**	**100**	**93**	**71**	**120 D**	**65**	**61**	**89**	**74**	**57**	**85**	**73**	**41**	**48 D**	**81**
Total VOCs	- -	ug/L	**340**	**330**	**150**	**490 J**	**200**	**240**	**130**	**510**	**290**	**440**	**460 J**	**610**	**400**	**520**	**590**	**470 J**	**520 J**	**500 J**	**510 J**	**364.2**	**303.46 J**	**379**	**404**	**347**	**435**	**453**	**351**	**229.97**	**419.6**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.
2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).
3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed
ND = non detected
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Series
VOC = volatile organic compound.
[ ] = Duplicate results are shown in brackets.
- - = no standard/guidance value
D = Compound quantitated using a secondary dilution.
F1 = MS and/or MSD Recovery is outside acceptable Limits.
J = Indicates an estimated value.
R = The sample results were rejected
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UB =Compound considered nondetect at the listed value due to associated blank contamination.
UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-19 03/09/11	MW-19 08/09/11	MW-19 10/13/11	MW-19 01/25/12	MW-19 03/29/12	MW-19 07/02/12	MW-19 09/13/12	MW-19 03/21/13	MW-19 11/21/13	MW-19 05/29/14	MW-19 10/15/14	MW-19 04/23/15	MW-19 01/27/16	MW-19 06/30/16
Detected Volatile Organics																
1,1,1-Trichloroethane	5	ug/L	5.0 U	1.0 U	5.0 U	**1.2**	1.0 U [1.0 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [5.0 U]	2.0 U [2.0 U]
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U [2.0 U]
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U [2.0 U]
2-Butanone	- -	ug/L	50 U	10 U	50 U	10 U	10 U [10 U]	10 U [20 U]	10 U [10 U]	50 U [100 U]	50 U [50 U]	250 U [250 U]	5.0 U [10 U]	5.0 U [5.0 U]	50 U [50 U]	20 U [20 U]
2-Hexanone	50	ug/L	50 U	10 U	50 U	10 U	10 U [10 U]	10 U [20 U]	10 U [10 U]	50 U [100 U]	50 U [50 U]	130 U [130 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	10 U [10 U]
4-Methyl-2-pentanone	- -	ug/L	50 U	10 U	50 U	10 UJ	10 U [10 U]	10 U [20 U]	10 U [10 U]	50 U [100 U]	50 U [50 U]	130 U [130 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	10 U [10 U]
Acetone	50	ug/L	120 U	25 U	130 U	25 U	25 U [25 U]	25 U [50 U]	25 U [25 U]	130 U [250 U]	130 U [130 U]	250 U [250 U]	5.0 U [10 U]	5.0 U [5.0 U]	50 UJ [50 U]	**6.6 J [6.3 J]**
Benzene	1	ug/L	**12**	**12**	**8.8**	**5.2**	**6.2 [6.1]**	**13 [18]**	**14 [13]**	**6.3 [10 U]**	**9.6 [11]**	25 U [25 U]	**6.6 [6.2]**	**4.0 [4.0]**	**7.3 [7.8]**	**7.0 [7.7]**
Carbon Disulfide	- -	ug/L	10 U	2.0 U	10 U	2.0 U	2.0 U [2.0 U]	2.0 U [4.0 U]	2.0 U [2.0 U]	10 U [20 U]	10 U [10 U]	25 U [25 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [5.0 U]	2.0 U [2.0 U]
Carbon Tetrachloride	5	ug/L	5.0 U	1.0 U	5.0 UJ	1.0 U	1.0 U [1.0 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [5.0 U]	2.0 U [2.0 U]
Chlorobenzene	5	ug/L	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [5.0 U]	2.0 U [2.0 U]
Chloroethane	5	ug/L	**92**	**110**	**38**	**37**	**38 [40]**	**77 [82]**	**150 J [160]**	**28 [29]**	**67 [70]**	**230 [240]**	**39 J [33 J]**	**34 J [33]**	**180 J [180]**	**86 [95]**
Chloroform	7	ug/L	5.0 U	**2.9**	5.0 U	1.0 U	**1.0 [1.0 U]**	1.0 U [2.0 U]	**1.0 [1.0 U]**	5.0 U [10 U]	**5.0 U [5.0]**	25 U [25 U]	**4.3 [4.1]**	**3.3 [3.5]**	5.0 U [5.0 U]	2.0 U [2.0 U]
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U [2.0 U]
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U [2.0 U]
Ethylbenzene	5	ug/L	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [5.0 U]	2.0 U [2.0 U]
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U [2.0 U]
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U [2.0 U]
Methylene Chloride	5	ug/L	25 U	5.0 U	25 U	5.0 U	5.0 U [5.0 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [50 U]	25 U [25 U]	**25 J [28 J]**	**1.3 [2.0 U]**	1.0 U [1.0 U]	5.0 U [5.0 U]	2.0 U [2.0 U]
Toluene	5	ug/L	5.0 U	1.0 U	5.0 U	**1.9**	**3.3 [2.8]**	**2.3 [3.0]**	**2.5 [2.3]**	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	**2.3 [2.0 U]**	**1.5 [1.6]**	5.0 U [5.0 U]	**2.4 [2.4]**
Xylenes (total)	5	ug/L	10 U	2.0 U	10 U	2.0 U	**2.0 U [2.1]**	2.0 U [4.0 U]	2.0 U [2.0 U]	10 U [20 U]	10 U [10 U]	50 U [50 U]	2.0 U [4.0 U]	2.0 U [2.0 U]	10 U [10 U]	4.0 U [4.0 U]
Tetrachloroethene	5	ug/L	5.0 U	**6.7**	**6.3**	1.0 U	1.0 U [1.0 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	**6.9 [10 U]**	**6.1 [7.6]**	25 U [25 U]	**5.9 [5.6]**	**15 [15]**	5.0 U [5.0 U]	2.0 U [2.0 U]
Trichloroethene	5	ug/L	**44**	**6.8**	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [2.0 U]	**2.6 [2.3]**	**19 [18]**	**6.4 [7.0]**	**56 [54]**	**10 J [9.1 J]**	**13 [13]**	5.0 U [5.0 U]	2.0 U [2.0 U]
1,1-Dichloroethane	5	ug/L	**75**	**67**	**44**	**35**	**18 [19]**	**140 [150]**	**82 [73]**	**27 [27]**	**41 [40]**	**110 [110]**	**26 [23]**	**15 J [16]**	**36 [40]**	**27 [30]**
1,1-Dichloroethene	5	ug/L	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	**1.2 [2.0 U]**	**1.3 [1.5]**	5.0 U [5.0 U]	2.0 U [2.0 U]
1,2-Dichloroethane	0.6	ug/L	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [10 U]	5.0 U [5.0 U]	25 U [25 U]	1.0 U [2.0 U]	1.0 U [1.0 U]	5.0 U [5.0 U]	2.0 U [2.0 U]
cis-1,2-Dichloroethene	5	ug/L	**530**	**100**	**370**	**1.1**	1.0 U [1.0 U]	**4.3 [6.3]**	**99 [89]**	**820 J [780]**	**400 J [420]**	**1,900 J [1,800]**	**490 [450]**	**380 [400]**	**66 [74]**	**39 [42]**
trans-1,2-Dichloroethene	5	ug/L	5.0 U	**3.9**	5.0 U	**2.8**	**2.9 [2.9]**	**5.9 [6.7]**	**6.1 [5.4]**	5.0 U [10 U]	**5.4 J [5.9]**	25 U [25 U]	**5.6 [4.9]**	**4.3 [4.5]**	5.0 U [5.0 U]	**3.9 [4.2]**
Vinyl Chloride	2	ug/L	**220**	**160**	**230**	**3.2**	1.0 U [1.0 U]	**11 [16]**	**150 D [160 D]**	**250 [240]**	**280 J [230]**	**510 [510]**	**330 [270]**	**180 [170]**	**98 [87]**	**67 J [73]**
Total VOCs	- -	ug/L	**970**	**470**	**700**	**87**	**69 [73]**	**250 [280]**	**510 J [510]**	**1,200 J [1,100]**	**820 J [800]**	**2,800 J [2,700 J]**	**920 J [810 J]**	**650 J [660]**	**390 J [390]**	**240 J [260 J]**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

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Laboratory control sample dup (LCS or LCSD) is outside acceptance limits.

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Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-19 12/20/16	MW-19 05/16/17	MW-19 10/31/17	MW-19 04/09/18	MW-19 10/04/18	MW-19 02/19/19	MW-19 05/08/19	MW-19 08/08/19	MW-19 11/06/19	MW-19 04/08/20	MW-19 11/12/20	MW-19 04/15/21	MW-19 11/23/21	MW-19 04/12/22	MW-19 11/03/22
Detected Volatile Organics																	
1,1,1-Trichloroethane	5	ug/L	2.0 U	1.0 U [40 U]	1.0 U [1.0 U]	**0.84 J [20 U]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	1.0 U [5.0 U]
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	**4.2**	**270 D [280]**	**12 [12]**	**170 D [230]**	5.0 U [5.0 U]	**9.0 [7.2]**	10 U [10 U]	10 U	**250 [230]**	**560 J [650]**	2.0 U [2.0 U]	2.0 U	**2.5 [2.0]**	**7.7**	**0.65 J** [5.0 U]
1,2-Dichlorobenzene	3	ug/L	2.0 U	1.0 U [40 U]	1.0 U [1.0 U]	1.0 U [20 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	**2.4**	2.0 U [1.0 U]	1.0 U	1.0 U [5.0 U]
2-Butanone	- -	ug/L	20 U	10 U [400 U]	5.0 U [5.0 U]	10 U [200 U]	50 U [50 U]	50 U [50 U]	100 U [100 U]	100 U*	100 U [10 U]	100 U [200 U]	20 U* [20 U*]	20 U	20 U [10 U]	10 U	10 U [50 U]
2-Hexanone	50	ug/L	10 U	5.0 U [200 U]	5.0 U [5.0 U]	5.0 U [100 U]	25 U [25 U]	25 U [25 U]	50 U [50 U]	50 U	50 U [5.0 U]	50 U [100 U]	10 U [10 U]	10 U	10 U [5.0 U]	10 U	10 U [50 U]
4-Methyl-2-pentanone	- -	ug/L	10 U	5.0 U [200 U]	5.0 U [5.0 U]	5.0 U [100 U]	25 U [25 U]	25 U [25 U]	50 U [50 U]	50 U	50 U [5.0 U]	50 U [100 U]	10 U [10 U]	10 U	10 U [5.0 U]	10 U	10 U [50 U]
Acetone	50	ug/L	20 U	10 UB [400 U]	5.2 UB [5.0 UB]	**4.4 J [200 U]**	50 U [50 U]	50 U [50 U]	100 U [100 U]	100 U	100 U [10 U]	100 U [200 U]	**10 J [9.4 J]**	**6.2 J**	20 U [10 U]	10 U	10 U [50 U]
Benzene	1	ug/L	**3.2**	**7.1 [40 U]**	**3.7 [3.7]**	**7.9 [10 J]**	5.0 U [5.0 U]	**4.2 J [4.2 J]**	**8.3 J [7.5 J]**	**6.9 J**	**9.3 J [10]**	**9.8 J [11 J]**	**7.2 [7.5]**	**7.8**	**6.4 [6.9]**	**7.1**	**7.2 [5.8]**
Carbon Disulfide	- -	ug/L	2.0 U	**0.41 J [40 U]**	1.0 U [1.0 U]	1.0 U [20 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	2.0 U	2.0 U [10 U]
Carbon Tetrachloride	5	ug/L	2.0 U	1.0 U [40 U]	1.0 U [1.0 U]	1.0 U [20 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	1.0 U [5.0 U]
Chlorobenzene	5	ug/L	2.0 U	1.0 U [40 U]	1.0 U [1.0 U]	1.0 U [20 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	1.0 U [5.0 U]
Chloroethane	5	ug/L	**32**	**22 [40 U]**	**16 [17]**	**45 [48]**	**12 [11]**	**39 [40]**	**58 [47]**	**45**	**74 [70]**	**82 [90]**	**43 [45]**	**65**	**93 [96]**	**96 D**	**73 DJ [210 J]**
Chloroform	7	ug/L	2.0 U	**1.7 [40 U]**	**0.56 J [0.56 J]**	**6.5 [7.7 J]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U **[0.82 J]**	**3.9 J [20 U]**	**1.5 J [1.5 J]**	**2.2**	**1.0 J [0.94 J]**	**2.3**	**0.82 J** [5.0 U]
Cyclohexane	- -	ug/L	2.0 U	**0.29 J [40 U]**	**0.61 J [0.60 J]**	**0.32 J [20 U]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U **[0.32 J]**	10 U [20 U]	2.0 U [2.0 U]	2.0 U	**1.5 J [0.90 J]**	1.0 U	1.0 U [5.0 U]
Dichlorodifluoromethane	5	ug/L	2.0 U	1.0 U [40 U]	1.0 U [1.0 U]	**19 [20 U]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	**13 J [9.5 J]**
Ethylbenzene	5	ug/L	2.0 U	1.0 U [40 U]	**0.30 J [0.35 J]**	1.0 U [20 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	**0.31 J** [5.0 U]
Isopropylbenzene	5	ug/L	2.0 U	1.0 U [40 U]	1.0 U [1.0 U]	1.0 U [20 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	1.0 U [5.0 U]
Methylcyclohexane	- -	ug/L	2.0 U	1.0 U [40 U]	1.0 U [1.0 U]	1.0 U [20 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	1.0 U [5.0 U]
Methylene Chloride	5	ug/L	2.0 U	**0.96 J [23 J]**	1.0 UB [1.0 UB]	1.0 U [20 U]	5.0 UB [5.0 UB]	5.0 U **[2.2 J]**	**5.5 J [10 U]**	10 U	10 U [1.0 U]	10 U [20 U]	**2.6 [2.4]**	2.0 U	2.0 U [1.0 U]	5.0 U	5.0 UB [25 U]
Toluene	5	ug/L	2.0 U	**2.0 [40 U]**	**0.27 J [0.29 J]**	**1.9 [20 U]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U **[1.3]**	10 U [20 U]	**2.4 [2.4]**	**1.7 J**	2.0 U **[0.60 J]**	**1.1**	**0.62 J** [5.0 U]
Xylenes (total)	5	ug/L	4.0 U	2.0 U [80 U]	**2.0 U [0.28 J]**	2.0 U [40 U]	10 U [10 U]	10 U [10 U]	20 U [20 U]	20 U	20 U [2.0 U]	20 U [40 U]	4.0 U [4.0 U]	4.0 U	4.0 U [2.0 U]	1.0 U	**0.33 J** [5.0 U]
Tetrachloroethene	5	ug/L	2.0 U	**9.9 [40 U]**	**1.6 [1.7]**	**11 [14 J]**	**5.0 UB [5.2]**	5.0 U [5.0 U]	10 U **[3.6 J]**	10 U	**10 [10]**	**8.6 J [9.4 J]**	2.0 U [2.0 U]	2.0 U	2.0 U **[0.47 J]**	**1.4**	**3.0 [2.1 J]**
Trichloroethene	5	ug/L	**1.1 J**	**29 [33 J]**	**3.5 [3.7]**	**23 [24]**	**3.1 J [3.4 J]**	**2.3 J** [5.0 U]	**7.0 J [7.9 J]**	10 U	**49 [52]**	**40 [45]**	2.0 U [2.0 U]	**0.95 J**	**1.4 J [1.4]**	**1.7**	**3.2 [2.3 J]**
1,1-Dichloroethane	5	ug/L	**11**	**31 [37 J]**	**10 [10]**	**26 [31]**	**8.9 [8.7]**	**13 [13]**	**22 J [18]**	**16**	**23 [23]**	**33 [36]**	**28 [30]**	**37**	**10 [10]**	**27**	**22 [18]**
1,1-Dichloroethene	5	ug/L	2.0 U	**4.6 [40 U]**	1.0 U [1.0 U]	**3.7 [20 U]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U [1.0 U]	**4.0 J [20 U]**	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	**0.88 J**	**0.44 J** [5.0 U]
1,2-Dichloroethane	0.6	ug/L	2.0 U	**0.32 J [40 U]**	**0.30 J [0.33 J]**	**0.21 J [20 U]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U **[0.30 J]**	10 U [20 U]	2.0 U [2.0 U]	2.0 U	2.0 U [1.0 U]	1.0 U	1.0 U [5.0 U]
cis-1,2-Dichloroethene	5	ug/L	**120**	**1,700 DJ [1,700]**	**140 [140]**	**930 D [920]**	**170 J [150 J]**	**250 [250]**	**560 [520]**	**150**	**490 J [480 J]**	**1,300 [1,300]**	**70 [78]**	**130**	**69 [71]**	**170 D**	**190 [160]**
trans-1,2-Dichloroethene	5	ug/L	2.0 U	**7.0 [40 U]**	**2.9 [3.0]**	**5.2 [20 U]**	5.0 U [5.0 U]	5.0 U [5.0 U]	10 U [10 U]	10 U	10 U **[5.4]**	10 U [20 U]	**6.7 [7.2]**	**5.2**	**3.0 [3.3]**	**4.0**	**5.7 [3.9 J]**
Vinyl Chloride	2	ug/L	**120**	**560 D [540]**	**110 [110]**	**330 D [300]**	**68 [85]**	**120 [120]**	**190 [170]**	**170**	**250 [240]**	**450 [500]**	**130 J [140]**	**150**	**120 [120]**	**320 D**	**150 DJ [240 J]**
Total VOCs	- -	ug/L	**290 J**	**2,400 J [2,300 J]**	**290 J [290 J]**	**1,400 J [1,400 J]**	**270 J [270 J]**	**442.5 J [436.6 J]**	**850.8 J**	**387.9 J**	**,155.3 J [1,123.14**	**2491.3 J [2681.4 J**	**301.4 J [323.4 J]**	**408.45 J**	**307.8 J [313.51]**	**639.18**	**470.27 [651.6]**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed

ND = non detected

NYSDEC = New York State Department of Environmental Conservation

TOGS = Technical and Operational Guidance Series

VOC = volatile organic compound.

[ ] = Duplicate results are shown in brackets.

- - = no standard/guidance value

D = Compound quantitated using a secondary dilution.

F1 = MS and/or MSD Recovery is outside acceptable Limits.

J = Indicates an estimated value.

R = The sample results were rejected

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UB =Compound considered nondetect at the listed value due to associated blank contamination.

UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Laboratory control sample dup (LCS or LCSD) is outside acceptance limits.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-20 04/16/10	MW-20 03/10/11	MW-20 08/10/11	MW-20 09/13/12	MW-20 03/22/13	MW-20 11/21/13	MW-20 05/29/14	MW-20 10/15/14	MW-20 04/23/15	MW-20 01/27/16	MW-20 06/30/16	MW-20 12/21/16	MW-20 05/16/17	MW-20 10/31/17	MW-20 04/10/18	MW-20 10/04/18	MW-20 05/07/19	MW-20 11/06/19	MW-20 04/07/20	MW-20 11/12/20	MW-20 04/15/21	MW-20 11/23/21	MW-20 04/12/22	MW-20 11/02/22
Detected Volatile Organics																										
1,1,1-Trichloroethane	5	ug/L	NA	1.0 U	10 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	NA	10 U	100 U	10 U	10 U	20 U	10 U	5.0 U	5.0 U	10 U	400 U	10 U	20 U	130 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	NA	10 U	100 U	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	200 U	5.0 U	10 U	130 U	5.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	- -	ug/L	NA	10 U	100 U	10 U	10 U	20 U	5.0 U	5.0 U	5.0 U	5.0 U	200 U	5.0 U	10 U	130 U	5.0 U	5.0 U	10 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	50	ug/L	NA	25 U	250 U	25 U	25 U	50 U	10 U	**11**	5.0 U	10 UJ	400 U	10 U	20 UB	130 U	10 U	**4.6 J**	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	ug/L	**470**	**5.1**	**360**	**100**	**14**	**330**	**13**	**310**	**6.6**	**7.1**	**300**	**0.59 J**	2.0 U	**410**	**11**	1.0 U	**4.6**	**4.1**	**5.2**	**1.2**	**0.43 J**	**3.0**	1.0 U	**1.5**
Carbon Disulfide	- -	ug/L	NA	2.0 U	20 U	2.0 U	2.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	ug/L	NA	**1.5**	10 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	**1.0**	1.0 U	40 U	**1.3**	**1.7 J**	25 U	**0.58 J**	**2.5**	2.0 U	2.0 U	1.0 U	**1.1**	**0.59 J**	**0.52 J**	**0.95 J**	**0.86 J**
Chlorobenzene	5	ug/L	NA	1.0 U	10 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	NA	1.0 U	10 UJ	1.0 U	1.0 U	10 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Chloroform	7	ug/L	NA	**2.5**	10 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	**2.3**	**1.3**	40 U	**2.2**	**2.6**	25 U	**1.5**	3.6 UB	**1.3 J**	**1.4 J**	**0.58 J**	**2.2**	**1.9**	**1.5**	**1.4**	**2.0**
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	**760**	**1.7**	**210**	**17**	1.0 U	**88**	**18**	**69**	**6.0**	**7.4**	**220**	1.0 U	2.0 U	**520 J**	**10**	1.0 U	**8.2**	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	1.0 U	2.0 U	**50**	**1.2**	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40 U	1.0 U	2.0 U	**16 J**	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	NA	5.0 U	50 U	5.0 U	5.0 U	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U	40 U	1.0 U	**1.7 J**	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.2 UB
Toluene	5	ug/L	**2,900**	1.0 U	**350**	**4.1**	1.0 U	**90**	1.0 U	**34**	1.0 U	**3.3**	**86**	1.0 U	2.0 U	**190**	**1.1**	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	**7,100**	**8.8**	**1,700**	**77**	**5.4**	**410**	**6.7**	**250**	**36**	**45**	**2,400**	2.0 U	4.0 U	**5,200**	**77**	2.0 U	**53**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	**0.70 J**
Tetrachloroethene	5	ug/L	NA	**52**	10 U	**32**	**21**	2.0 U	**17**	**2.2**	**54**	**42**	40 U	**58**	**80**	25 U	**55**	**98**	**58**	**30**	**33**	**57**	**67**	**52**	**48**	**58**
Trichloroethene	5	ug/L	NA	**3.1**	10 U	**15**	**15**	**4.6**	**18**	1.0 UJ	**6.9**	**5.2**	40 U	**4.8**	**6.0**	25 U	**13**	**9.3**	**10**	**9.5**	**13**	**7.1**	**11**	**11**	**5.4**	**7.6**
1,1-Dichloroethane	5	ug/L	NA	1.0 U	10 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U	2.0 U	25 U	**0.46 J**	**0.70 J**	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	**0.41 J**	1.0 U	**0.33 J**
1,1-Dichloroethene	5	ug/L	NA	1.0 U	10 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U	2.0 U	25 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	NA	1.0 U	10 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U	2.0 U	25 U	1.0 U	**0.23 J**	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	ug/L	NA	**1.2**	**80**	**16**	**5.3**	**30**	**11**	**23**	**4.8**	**6.8**	40 U	**2.6**	**3.9**	**77**	**11**	**10**	**14**	**14**	**19**	**8.4**	**10**	**16**	**3.0**	**7.7**
trans-1,2-Dichloroethene	5	ug/L	NA	1.0 U	10 U	1.0 U	1.0 U	2.0 U	1.0 U	**1.2**	1.0 U	1.0 U	40 U	1.0 U	2.0 U	**4.8 J**	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	ug/L	NA	1.0 U	**20**	**4.7**	1.0 U	**12**	**1.7**	**9.1**	1.0 U	1.0 U	40 U	1.0 U	2.0 U	**14 J**	**0.96 J**	1.0 U	2.0 U	2.0 U	**1.6**	1.0 U	1.0 U	**1.7**	1.0 U	1.0 U
Total VOCs	- -	ug/L	**11,000**	**76**	**2,700**	**270**	**61**	**960**	**85**	**710**	**120**	**120**	**3,000**	**69 J**	**96 J**	**6,400 J**	**180 J**	**130 J**	**147.8 J**	**59**	**72.38 J**	**77**	**90.92 J**	**86.13 J**	**58.75**	**78.69**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed

ND = non detected

NYSDEC = New York State Department of Environmental Conservation

TOGS = Technical and Operational Guidance Series

VOC = volatile organic compound.

[ ] = Duplicate results are shown in brackets.

- - = no standard/guidance value

D = Compound quantitated using a secondary dilution.

F1 = MS and/or MSD Recovery is outside acceptable Limits.

J = Indicates an estimated value.

R = The sample results were rejected

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UB =Compound considered nondetect at the listed value due to associated blank contamination.

UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-21 04/16/10	MW-21 03/08/11	MW-21 08/09/11	MW-21 10/13/11	MW-21 01/24/12	MW-21 03/30/12	MW-21 07/02/12	MW-21 09/14/12	MW-21 03/22/13	MW-21 11/21/13	MW-21 05/29/14	MW-21 10/15/14	MW-21 04/22/15	MW-21 01/27/16	MW-21 06/30/16	MW-21 12/20/16	MW-21 05/15/17	MW-21 10/30/17	MW-21 04/09/18	MW-21 10/03/18	MW-21 02/19/19	MW-21 05/07/19	MW-21 08/08/19	MW-21 11/07/19	MW-21 04/07/20	MW-21 11/11/20	MW-21 04/15/21	MW-21 11/22/21	MW-21 04/12/22	MW-21 11/02/22
Detected Volatile Organics																																
1,1,1-Trichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	- -	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	50	ug/L	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U	25 U	25 U	10 U	5.0 U	5.0 U	10 U	10 U	10 U	10 UB	5.0 UB	**4.5 J**	10 UB	**5.5 J**	10 U	**10**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	- -	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.21 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 UJ	5.0 U
Chloroform	7	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.91 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U
Toluene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Tetrachloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U
Trichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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Vinyl Chloride	2	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total VOCs	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.91 J**	ND	ND	**4.7 J**	**3.5 J**	**5.5 J**	ND	**10**	ND	ND	ND	ND	ND	ND	ND

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

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NYSDEC = New York State Department of Environmental Conservation
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F1 = MS and/or MSD Recovery is outside acceptable Limits.
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Detected Volatile Organics																			
1,1,1-Trichloroethane	5	ug/L	**23**	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	**170**	**150**	20 U	100 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
1,2-Dichlorobenzene	3	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
2-Butanone	- -	ug/L	100 U	2,000 U	100 U	20 U	20 U*	20 U	10 U	10 U	10 U [20 U]	20 U	10 U	10 U	1,000 U [1,000 U]	1,000 U	1,000 U	**100 J**	1,000 U
2-Hexanone	50	ug/L	50 U	1,000 U	50 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U [10 U]	10 U	10 U	10 U	500 U [500 U]	500 U	500 U	100 U	500 U
4-Methyl-2-pentanone	- -	ug/L	50 U	1,000 U	50 U	10 U	10 U	10 U	5.0 U	5.0 U	5.0 U [10 U]	10 U	10 U	10 U	500 U [500 U]	500 U	500 U	100 U	500 U
Acetone	50	ug/L	100 U	2,000 U	100 U	20 U	20 U	20 U	10 U	**3.5**	10 U [20 U]	20 U	10 U	10 U	1,000 U [1,000 U]	1,000 U	1,000 U	**100 J**	1,000 U
Benzene	1	ug/L	**6.7 J**	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Carbon Disulfide	- -	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	2.0 U	2.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Carbon Tetrachloride	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Chlorobenzene	5	ug/L	**49**	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Chloroethane	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	5.0 U	5.0 U	100 U [100 U]	100 U	100 U	**24**	100 U
Chloroform	7	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	**34 J [100 U]**	100 U	100 U	20 U	100 U
Cyclohexane	- -	ug/L	**5.9 J**	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Dichlorodifluoromethane	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Ethylbenzene	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Isopropylbenzene	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Methylcyclohexane	- -	ug/L	**1.6 J**	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Methylene Chloride	5	ug/L	10 U	200 U	**13**	**1.2 J**	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	5.0 U	5.0 UB	100 U [100 U]	100 U	100 U	20 U	100 U
Toluene	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
Xylenes (total)	5	ug/L	**7.9 J**	400 U	20 U	4.0 U	4.0 U	4.0 U	2.0 U	2.0 U	2.0 U [4.0 U]	4.0 U	1.0 U	1.0 U	200 U [200 U]	200 U	200 U	40 U	200 U
Tetrachloroethene	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	0.50 U	0.50 U	100 U [100 U]	100 U	100 U	20 U	100 U
Trichloroethene	5	ug/L	**440**	**5,800**	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	**3,100 [3,200]**	100 U	100 U	20 U	100 U
1,1-Dichloroethane	5	ug/L	**7.1 J**	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	**230**	**210**	**340**	**120**
1,1-Dichloroethene	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	1.0 U	1.0 U	100 U [100 U]	100 U	100 U	20 U	100 U
1,2-Dichloroethane	0.6	ug/L	10 U	200 U	10 U	**0.50 J**	**0.43 J**	**0.49 J**	**0.23 J**	**0.23 J**	**0.32 J [2.0 U]**	2.0 U	1.0 U	**0.29 J**	100 U [100 U]	100 U	100 U	20 U	100 U
cis-1,2-Dichloroethene	5	ug/L	**790 F1**	**4,900**	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	**0.82 J [2.0 U]**	2.0 U	**0.49 J**	**0.62 J**	**650 [630]**	**2,200**	**2,200**	**830**	**810**
trans-1,2-Dichloroethene	5	ug/L	10 U	200 U	10 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U [2.0 U]	2.0 U	**0.39 J**	**0.40 J**	100 U [100 U]	100 U	100 U	20 U	100 U
Vinyl Chloride	2	ug/L	**700 F1**	**260**	10 U	2.0 U	2.0 U	**2.6**	1.0 U	1.0 U	**2.0 [1.9 J]**	**1.9 J**	**1.3**	1.0 U	100 U [100 U]	**820**	**1,500**	**1,400**	**1,800**
Total VOCs	- -	ug/L	**2,000 J**	**11,000**	**13**	**1.7 J**	**0.43 J**	**3.09**	**0.23 J**	**3.73 J**	**3.14 J [5.9 J]**	**1.9 J**	**2.18**	**1.31 J**	**3,800 J [3,800]**	**3420**	**4060**	**2,794 J**	**2,730**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed
ND = non detected
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Series
VOC = volatile organic compound.
[ ] = Duplicate results are shown in brackets.
- - = no standard/guidance value
D = Compound quantitated using a secondary dilution.
F1 = MS and/or MSD Recovery is outside acceptable Limits.
J = Indicates an estimated value.
R = The sample results were rejected
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UB =Compound considered nondetect at the listed value due to associated blank contamination.
UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.
E = Result exceeded calibration range.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-24 04/08/20	MW-24 11/13/20	MW-24 04/15/21	MW-24 11/22/21	MW-24 04/13/22	MW-24 11/02/22	MW-25 10/04/18	MW-25 02/21/19	MW-25 02/21/19	MW-25 05/08/19	MW-25 08/07/19	MW-25 11/06/19	MW-25 04/07/20	MW-25 11/11/20	MW-25 04/15/21	MW-25 11/23/21	MW-25 04/12/22	MW-25 11/03/22
Detected Volatile Organics																				
1,1,1-Trichloroethane	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 U	20 U	5.0 U	1.0 U
2-Butanone	- -	ug/L	1,000 U	800 U	800 U	**140 J**	**83**	10 UJ	200 U	1,000 U	1,000 U	1,000 U	1,000 U*	1,000 U	500 U	500 U	200 U	200 U	50 U	10 U
2-Hexanone	50	ug/L	500 U	400 U	400 U	400 U	10 U	10 UJ	100 U	500 U	500 U	500 U	500 U	500 U	250 U	250 U	100 UJ	100 U	50 U	10 U
4-Methyl-2-pentanone	- -	ug/L	500 U	400 U	400 U	400 U	10 U	10 UJ	100 U	500 U	500 U	500 U	500 U	500 U	250 U	250 U	100 UJ	100 U	50 U	10 U
Acetone	50	ug/L	1,000 U	800 U	800 U	800 U	**260**	10 UJ	200 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	500 U	500 U	200 UJ	200 U	**29 J**	**5.6 J**
Benzene	1	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	**69**	**55**
Carbon Disulfide	- -	ug/L	100 U	80 U	80 U	80 U	2.0 U	2.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	10 U	2.0 U
Carbon Tetrachloride	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	1.0 U
Chlorobenzene	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 U	20 U	5.0 U	**1.3**
Chloroethane	5	ug/L	100 U	80 U	80 U	80 U	**23**	**23 J**	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 U	20 U	25 U	**50 J**
Chloroform	7	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 U	20 U	5.0 U	1.0 U
Cyclohexane	- -	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	**0.71 J**
Dichlorodifluoromethane	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	NA	100 U*	100 U*	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	1.0 UJ
Ethylbenzene	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	1.0 U
Isopropylbenzene	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	1.0 U
Methylcyclohexane	- -	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 U	20 U	5.0 U	**0.41 J**
Methylene Chloride	5	ug/L	100 U	80 U	80 U	80 U	5.0 U	9.4 UBJ	20 UB	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	25 U	5.0 UB
Toluene	5	ug/L	100 U	80 U	80 U	80 U	**0.76 J**	**4.2 J**	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	**0.97 J**
Xylenes (total)	5	ug/L	200 U	160 U	160 U	160 U	1.0 U	1.0 UJ	40 U	200 U	200 U	200 U	200 U	200 U	100 U	100 U	40 UJ	40 U	5.0 U	**0.35 J**
Tetrachloroethene	5	ug/L	100 U	80 U	80 U	80 U	0.50 U	0.50 UJ	**9,300 D**	**3,300**	**3,300**	**3,200**	**2,300**	**2,200**	**2,100**	**35 J**	**340 J**	**920**	**6.7**	**4.7**
Trichloroethene	5	ug/L	100 U	**1,000**	80 U	80 U	1.0 U	1.0 UJ	**220**	**87 J**	**87 J**	**130**	**84 J**	**91 J**	**83**	50 U	**150 J**	**280**	**3.0 J**	**4.6**
1,1-Dichloroethane	5	ug/L	**88 J**	**58 J**	**86**	80 U	**13**	**1.3 J**	**17 J**	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 U	20 U	**15**	1.0 U
1,1-Dichloroethene	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	5.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	100 U	80 U	80 U	80 U	**1.8**	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	50 U	20 UJ	20 U	**2.2 J**	**1.8**
cis-1,2-Dichloroethene	5	ug/L	**2,500**	**2,600**	**2,600**	80 U	**0.58 J**	**0.27 J**	**850**	**550**	**550**	**650**	**770**	**490**	**530**	**12,000**	**870 J**	**680**	**69**	**9.2**
trans-1,2-Dichloroethene	5	ug/L	100 U	80 U	80 U	80 U	1.0 U	1.0 UJ	20 U	100 U	100 U	100 U	100 U	100 U	50 U	**57**	20 U	20 U	5.0 U	**1.1**
Vinyl Chloride	2	ug/L	**3,100**	**550**	**460**	80 U	**4.3**	**1.8 J**	**690**	**610**	**610**	**640**	**800**	**590**	**720**	**570**	**140**	**190**	**150**	**6.1**
Total VOCs	- -	ug/L	**5,688 J**	**4,208 J**	**3,146**	**140 J**	**386.44**	**30.57**	NA	NA	**4547 J**	**5390**	**3,954 J**	**3,371**	**3,433**	**12,662 J**	**1,500**	**2,070**	**343.9**	**141.84**

NOTES:

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Table 8
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2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-A1 03/09/11	MW-A1 08/09/11	MW-A1 10/13/11	MW-A1 01/25/12	MW-A1 03/29/12	MW-A1 07/02/12	MW-A1 09/13/12	MW-A1 03/21/13	MW-A1 11/21/13	MW-A1 05/29/14	MW-A1 10/15/14	MW-A1 04/23/15	MW-A1 01/27/16	MW-A1 06/30/16	MW-A1 12/20/16	MW-A1 05/16/17	MW-A1 10/31/17	MW-A1 04/10/18	MW-A1 10/04/18	MW-A1 05/08/19	MW-A1 11/06/19	MW-A1 04/08/20	MW-A1 11/11/20	MW-A1 04/15/21	MW-A1 11/23/21	MW-A1 04/12/22	MW-A1 11/03/22
Detected Volatile Organics																													
1,1,1-Trichloroethane	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	**12**	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	**1.1**	**3.2**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	50 U [50 U]	50 U [50 U]	50 U [50 U]	10 U	10 U	10 U	**51**	10 U	**73**	40 U	5.0 U	5.0 U	100 U	10 U	10 U	10 U	5.0 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	10 U	10 U
2-Hexanone	50	ug/L	50 U [50 U]	50 U [50 U]	50 U [50 U]	10 U	10 U	10 U	20 U	10 U	10 U	20 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	- -	ug/L	50 U [50 U]	50 U [50 U]	50 U [50 U]	10 U	10 U	10 U	20 U	10 U	10 U	20 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	50	ug/L	120 U [120 U]	130 U [130 U]	130 U [130 U]	25 U	25 U	25 U	**73**	25 U	**120**	40 U	5.0 U	5.0 U	100 U	**13**	10 U	10 UB	9.5 UB	20 U	**15 J**	20 U	20 UB	20 U	20 U	20 U	20 U	10 U	10 U
Benzene	1	ug/L	**7.7 [7.2]**	**9.5 [9.8]**	**5.2 [7.7]**	**8.8**	**7.9**	**8.7**	**12**	**5.3**	**11**	**9.2**	**6.7**	**6.3**	10 U	**5.8**	**8.8**	**7.1**	**9.3**	**9.9**	**6.1**	**7.6**	**6.0**	**3.5**	**2.8**	**2.3**	**1.7 J**	**1.9**	**1.2**
Carbon Disulfide	- -	ug/L	10 U [10 U]	10 U [10 U]	10 U [10 U]	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	**0.28 J**	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 UJ [5.0 U]	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	**2.1**	**2.0**	**2.7**	**3.1**	**2.0**	**2.5**	4.0 U	**1.4**	**1.8**	10 U	**0.98 J**	**1.3**	**1.3**	**1.1**	2.0 U	4.0 U	2.0 U	**2.1**	**1.8 J**	**1.7 J**	2.0 U	2.0 U	**1.4**	**1.1**
Chloroethane	5	ug/L	5.0 U [5.0 U]	**17 [16 J]**	5.0 U [5.0 U]	**13**	**20**	**13**	**38**	**6.8**	**21**	**6.9**	**4.5 J**	1.0 U	10 U	**4.3**	**9.8**	**4.3**	**25**	**39**	**7.6**	**9.3**	**5.0**	**6.1**	2.0 U	**3.0**	**2.4**	5.0 UJ	5.0 U
Chloroform	7	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	1.0 U	**1.3**	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.1 J**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	**0.47 J**	**0.82 J**	2.0 U	4.0 U	2.0 U	**0.46 J**	2.0 U	2.0 U	**0.46 J**	**1.7 J**	**0.41 J**	**0.28 J**
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	**0.61 J**	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	25 U [25 U]	25 U [25 U]	25 U [25 U]	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	4.0 UJ	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 UB	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	5.0 U
Toluene	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	1.0 U	1.0 U	**4.9**	1.0 U	1.0 U	4.0 U	**3.2**	1.0 U	10 U	**1.3**	**0.86 J**	1.0 U	**0.51 J**	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	10 U [10 U]	10 U [10 U]	10 U [10 U]	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	8.0 U	2.0 U	2.0 U	20 U	2.0 U	2.0 U	2.0 U	**0.36 J**	4.0 U	8.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U
Tetrachloroethene	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.6**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.50 U	0.50 U
Trichloroethene	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	**1.2**	**1.3**	2.0 U	**3.5**	1.0 U	4.0 U	1.0 UJ	1.0 U	10 U	1.0 U	1.0 U	1.0 U	**0.83 J**	**9.9**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	ug/L	**22 [21]**	**19 [20]**	**15 [17]**	**17**	**11**	**14**	**12**	**9.3**	1.0 U	4.0 U	1.0 U	**1.5**	10 U	1.0 U	**0.84 J**	**1.1**	**5.7**	**21**	**3.6 J**	**1.8 J**	**1.5 J**	**2.8**	**2.7**	2.0 U	2.0 U	**1.0**	**0.40 J**
1,1-Dichloroethene	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.4 J**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	**0.26 J**	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	ug/L	**270 [260]**	**220 J [250 J]**	**200 [210]**	**25**	**36**	**130**	**150**	**86**	**7.6**	**5.7**	**6.3**	**27**	10 U	**6.7**	**13**	**24**	**26**	**330 D**	4.0 U	**2.8**	**23**	**40**	2.0 U	2.0 U	2.0 U	**1.2**	1.0 U
trans-1,2-Dichloroethene	5	ug/L	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U [5.0 U]	1.0 U	1.0 U	**1.5**	2.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	**1.8**	**3.4**	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.45 J**	1.0 U
Vinyl Chloride	2	ug/L	**490 [460]**	**310 [410]**	**600 J [470]**	**50**	**70**	**200 D**	**230 D**	**120**	**4.2**	4.0 U	**17**	**51**	10 U	**17**	**39**	**70**	**28**	**120**	4.0 U	**3.1**	**27**	**62**	2.0 U	2.0 U	2.0 U	**3.7**	1.0 U
Total VOCs	- -	ug/L	**790 [750]**	**580 J [710 J]**	**820 J [700]**	**130**	**150**	**370**	**570**	**230**	**240**	**22**	**39 J**	**88**	ND	**49 J**	**74 J**	**110**	**99 J**	**540 J**	**32 J**	**24.6 J**	**65.06**	**116.2 J**	**7.2 J**	**5.8 J**	**5.8 J**	**10.06**	**2.98 J**

NOTES:
1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.
2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).
3. Shaded cells denote results in exceedance of criteria. Bold values are detected.
NA = Not analyzed
ND = Non detected
NYSDEC = New York State Department of Environmental Conservation
TOGS = Technical and Operational Guidance Series
VOC = volatile organic compound.
[ ] = Duplicate results are shown in brackets.
- - = no standard/guidance value
D = Compound quantitated using a secondary dilution.
F1 = MS and/or MSD Recovery is outside acceptable Limits.
J = Indicates an estimated value.
R = The sample results were rejected
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
UB =Compound considered nondetect at the listed value due to associated blank contamination.
UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Table 8
Summary of Volatile Organic Compounds (April 2010- November 2022)
2022 Corrective Measure Implementation Annual Progress Report
Ashland Inc.
130 South Street, Rensselaer, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	MW-B1 03/09/11	MW-B1 08/10/11	MW-B1 10/13/11	MW-B1 01/24/12	MW-B1 03/29/12	MW-B1 07/02/12	MW-B1 09/13/12	MW-B1 03/21/13	MW-B1 11/21/13	MW-B1 05/29/14	MW-B1 10/15/14	MW-B1 04/22/15	MW-B1 01/27/16	MW-B1 06/28/16	MW-B1 12/21/16	MW-B1 05/16/17	MW-B1 10/30/17	MW-B1 04/10/18	MW-B1 10/03/18	MW-B1 05/07/19	MW-B1 11/06/19	MW-B1 04/08/20	MW-B1 11/12/20	MW-B1 04/15/21	MW-B1 11/22/21	MW-B1 04/13/22	MW-B1 11/03/22	PZ-6 12/20/16
Detected Volatile Organics																													
1,1,1-Trichloroethane	5	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	**39**
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	- -	ug/L	**430**	**7,800**	**5,100 J**	**520**	**47**	10 U	10 U	10 U	10 U	40 U	5.0 U	5.0 U	50 U	40 U	10 U	10 U	5.0 U	20 U	20 U	10 U	20 U	10 U	**29**	40 U	40 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	50 U	500 U	500 U	50 UJ	10 U	10 U	10 U	10 U	10 U	20 U	5.0 U	5.0 U	25 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	**5.6**	20 U	20 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone	- -	ug/L	50 U	500 U	500 U	50 U	10 U	10 U	10 U	10 U	10 U	20 U	5.0 U	5.0 U	25 U	20 U	5.0 U	5.0 U	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	5.0 U	20 U	20 U	10 U	10 U	5.0 U
Acetone	50	ug/L	120 U	1,300 U	1,300 UJ	130 U	25 U	25 U	25 U	25 U	25 U	40 U	5.0 U	5.0 U	50 U	40 U	10 U	10 UB	5.0 UB	20 U	20 U	10 U	20 U	10 U	**29**	40 U	40 U	10 U	10 U	10 U
Benzene	1	ug/L	5.0 UJ	50 UJ	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	**0.50 J**	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	- -	ug/L	10 U	100 U	100 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	**0.24 J**	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	**0.42 J**	4.0 U	4.0 U	2.0 U	2.0 U	1.0 U
Carbon Tetrachloride	5	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	5.0 UJ	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	**3.7**	1.0 U	5.0 U	4.0 U	1.0 UJ	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	5.0 U	1.0 U
Chloroform	7	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	**0.74 J**	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	5.0 UJ	50 UJ	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	25 U	250 U	250 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**6.9 J**	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	5.0 U	9.1 UB	1.0 U
Toluene	5	ug/L	5.0 UJ	50 UJ	50 U	5.0 U	**2.1**	**2.2**	**2.7**	**1.6**	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	10 UJ	100 UJ	100 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.0 U	2.0 U	2.0 U	10 U	8.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	8.0 U	8.0 U	1.0 U	1.0 U	2.0 U
Tetrachloroethene	5	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	0.50 U	0.50 U	1.0 U
Trichloroethene	5	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 UJ	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	**5.2**
1,1-Dichloroethane	5	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	**13**
1,1-Dichloroethene	5	ug/L	5.0 U	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U	5.0 U	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	**34**	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	**1.0**	5.0 U	4.0 U	1.0 U	**0.44 J**	**0.48 J**	2.0 U	**0.77 J**	1.0 U	**0.44 J**	**0.32 J**	**0.40 J**	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	ug/L	**710**	50 U	**68**	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**14**	**7.3**	**8.7**	5.0 U	4.0 U	1.0 U	**3.3**	**2.3**	**17**	**15**	1.0 U	2.0 U	1.0 U	**0.88 J**	4.0 U	4.0 U	**0.35 J**	**1.4**	**29**
trans-1,2-Dichloroethene	5	ug/L	**45**	50 U	50 U	**10**	**5.9**	**3.6**	**3.7**	1.0 U	1.0 U	4.0 U	**1.2**	**1.4**	5.0 U	4.0 U	1.0 U	**0.99 J**	**0.96 J**	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	ug/L	**270**	50 U	50 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**18**	**10**	**14**	5.0 U	4.0 U	1.0 U	**6.5**	**2.2**	**7.4**	**27**	1.0 U	2.0 U	1.0 U	**1.2**	4.0 U	4.0 U	**0.48 J**	**5.5**	**25**
Total VOCs	- -	ug/L	**1,500**	**7,800**	**5,200 J**	**530**	**55**	**5.8**	**10**	**1.6**	ND	**39 J**	**19**	**25**	ND	ND	ND	**11 J**	**5.9 J**	**24**	**43 J**	ND	**0.44 J**	**0.32 J**	**67.74 J**	ND	ND	**0.83**	**6.9**	**111.2**

NOTES:

1. All results are in micrograms per liter (µg/L), equivalent to parts per billion.

2. NYSDEC. 1998. TOGS 1.1.1 Water Guidance Values/Standards = New York State Department of Environmental Conservation Technical and Operational Guidance Series, June 1998, and its addenda (January 1999 Errata Sheet, April 2000 Addendum, and June 2004 Addendum).

3. Shaded cells denote results in exceedance of criteria. Bold values are detected.

NA = not analyzed

ND = non detected

NYSDEC = New York State Department of Environmental Conservation

TOGS = Technical and Operational Guidance Series

VOC = volatile organic compound.

[ ] = Duplicate results are shown in brackets.

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D = Compound quantitated using a secondary dilution.

F1 = MS and/or MSD Recovery is outside acceptable Limits.

J = Indicates an estimated value.

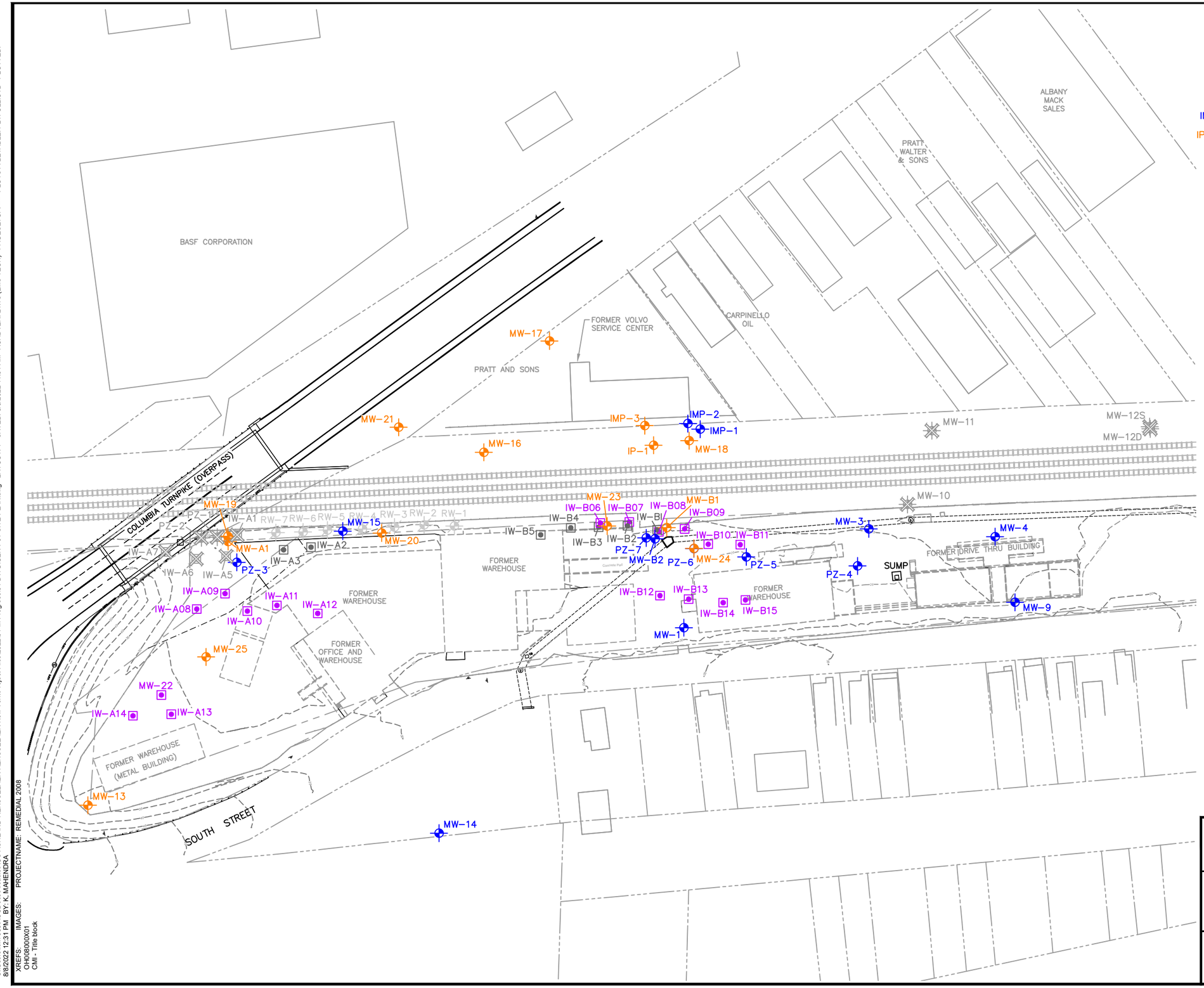
R = The sample results were rejected

U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UB =Compound considered nondetect at the listed value due to associated blank contamination.

UJ = The compound was analyzed for but not detected. The associated value is the compound quantitation limit. Indicates an estimated value.

Figures



LEGEND:

- IMP-1/MW-1/PZ-1 — GROUNDWATER GAUGING WELL
- IP-1/IMP-3/MW-16 — PERFORMANCE MONITORING GROUNDWATER SAMPLING LOCATIONS
- IW-A2 — SHALLOW INJECTION WELL LOCATION (2010)
- IW-A14 — ERD SYSTEM OPTIMIZATION INJECTION WELL (2018)
- SURFACE CONTOUR
- RAILROAD TRACK
- CULVERTED STREAM PIPE
- PROPERTY LINE
- FORMER BUILDINGS AND STRUCTURES
- RECOVERY WELLS ABANDONED IN 2016
- INJECTION WELLS/PIEZOMETERS ABANDONED IN 2018
- MONITORING WELLS MW-11, MW-12 WERE ABANDONED ON 12/10/2021 AND MW-10 ON 05/27/2021.

NOTES:

1. LOCATIONS AND TOPOGRAPHY EAST OF CSX RAILROAD PROPERTY AND WEST OF AND INCLUDING SOUTH STREET, SURVEYED BY THEW ASSOCIATES PE-LS, PLLC (OCTOBER 2008). TWO NEW MONITORING WELLS, MW-20 & MW-21, AND TEN NEW INJECTION WELLS, IW-A2 THROUGH IW-A7 & IW-B2 THROUGH IW-B5, WERE SURVEYED ON JULY 2, 2010 BY THEW ASSOCIATES. ONE NEW MONITORING WELL (MW-25) AND 17 NEW INJECTION WELLS (IW-A08 THROUGH IW-A14; IW-B06 THROUGH IW-B15) WERE SURVEYED ON DECEMBER 5, 2018 BY THEW ASSOCIATES, ALONG WITH THREE DUAL-PURPOSE MONITORING AND INJECTION WELLS INSTALLED IN 2017 (MW-22 THROUGH MW-24).
2. REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE). VERTICAL REFERENCE TO NGVD 1929.
3. ASHLAND PROPERTY BOUNDARY ESTABLISHED BY THEW ASSOCIATES SURVEY AND DEED RESEARCH (OCTOBER 2008). OTHER PROPERTY LINES AND MAP FEATURES ARE FROM RENSSELAER COUNTY TAX MAPPING AND NEW YORK STATE CLEARING-HOUSE AERIAL PHOTOGRAPHY.
4. INJECTION WELL MW-22 WAS INSTALLED DURING THE 2017 LIMITED-SCALE INJECTION EVENT.

0 100' 200'

GRAPHIC SCALE

ASHLAND INC.
RENSSELAER, NEW YORK

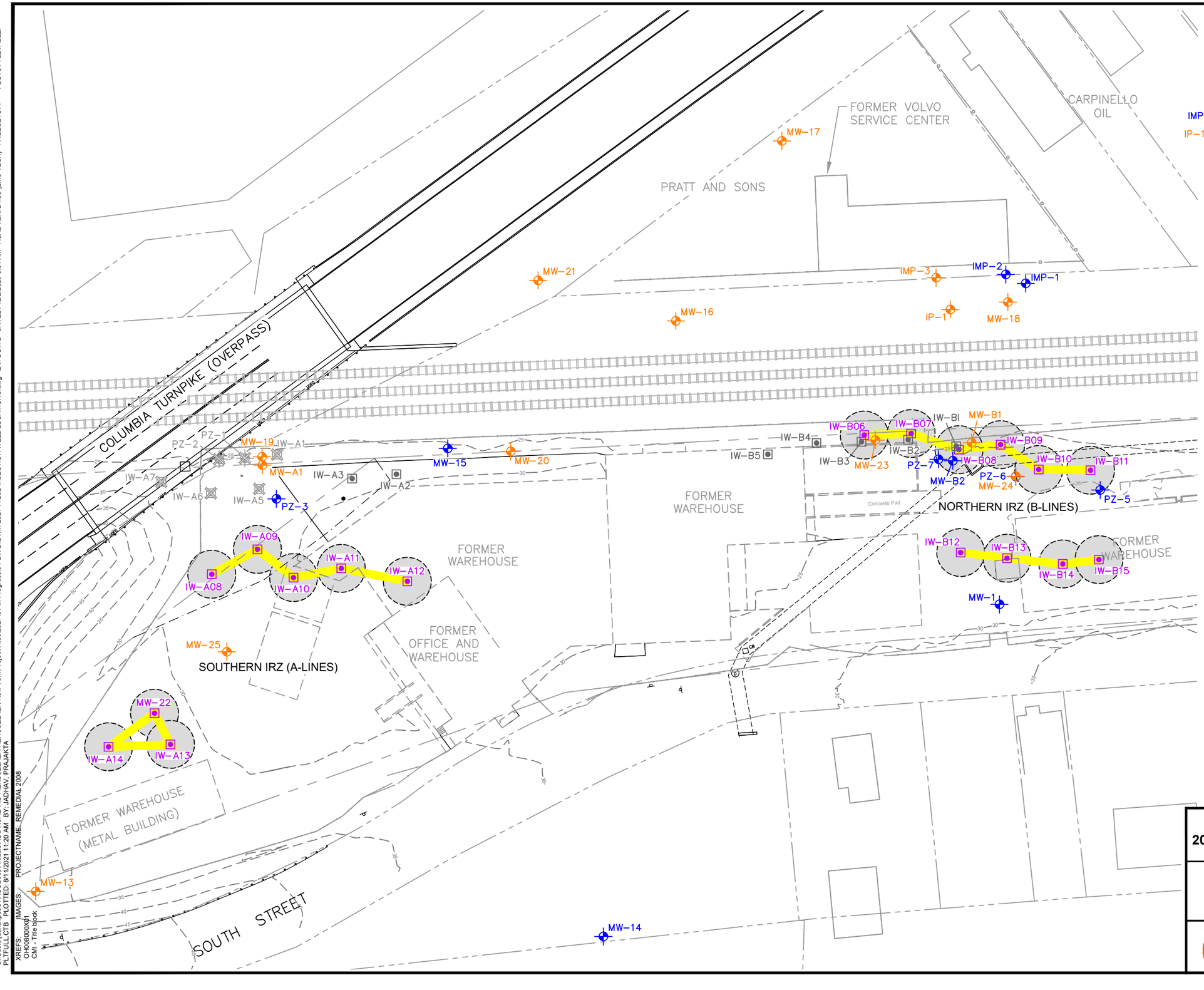
2022 CORRECTIVE MEASURES IMPLEMENTATION ANNUAL PROGRESS REPORT

SITE PLAN

ARCADIS

FIGURE 1

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: R. BASSETT, E. KRAHMER, R. ALLEN PM: W. GOLLA TM/TR: K. POTTER LYR:ON=*;OFF=REF, (FRZ)
C:\Users\km7685\ACCDocs\Arcadis\AUS-ASHLAND-RENSSELAER-RENSSELAER New York\Project Files\2022\01-In Progress\01-DWG\GEN-F01-SITE PLAN.dwg LAYOUT: 1 SAVED: 8/8/2022 11:31 AM ACADVER: 24.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/8/2022 12:31 PM BY: K. MAHENDRA
XREFS: IMAGES: PROJECTNAME: REMEDIAL 2008
OH008000X01
CMI - Title block



LEGEND:

- IMP-1/MW-1/PZ-1 — GROUNDWATER GAUGING WELL
- IP-1/IMP-3/MW-16 — PERFORMANCE MONITORING GROUNDWATER SAMPLING LOCATIONS
- IW-A2 — SHALLOW INJECTION WELL LOCATION (2010)
- IW-A14 — ERD SYSTEM OPTIMIZATION INJECTION WELL (2018)
- SURFACE CONTOUR
- RAILROAD TRACK
- CULVERTED STREAM PIPE
- PROPERTY LINE
- FORMER BUILDINGS AND STRUCTURES
- WELLS ABANDONED IN 2018
- EXTENT OF IN-SITU REACTIVE ZONE (IRZ)
- LATERAL EXTENT OF INFLUENCE (30 FEET)

NOTES:

1. IRZ WELLS IW-A6 AND IW-A7 WERE INSTALLED UNDER THE COLUMBIA TURNPIKE OVERPASS.
2. LOCATIONS AND TOPOGRAPHY EAST OF CSX RAILROAD PROPERTY AND WEST OF AND INCLUDING SOUTH STREET, SURVEYED BY THEW ASSOCIATES PE-LS, PLLC (OCTOBER 2008). TWO NEW MONITORING WELLS, MW-20 & MW-21, AND TEN NEW INJECTION WELLS, IW-A2 THROUGH IW-A7 & IW-B2 THROUGH IW-B5, WERE SURVEYED ON JULY 2, 2010 BY THEW ASSOCIATES. ONE NEW MONITORING WELL (MW-25) AND 17 NEW INJECTION WELLS (IW-A08 THROUGH IW-A14; IW-B06 THROUGH IW-B15) WERE SURVEYED ON DECEMBER 5, 2018 BY THEW ASSOCIATES, ALONG WITH THREE DUAL-PURPOSE MONITORING AND INJECTION WELLS INSTALLED IN 2017 (MW-22 THROUGH MW-24).
3. REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE). VERTICAL REFERENCE TO NGVD 1929.
4. ASHLAND PROPERTY BOUNDARY ESTABLISHED BY THEW ASSOCIATES SURVEY AND DEED RESEARCH (OCTOBER 2008). OTHER PROPERTY LINES AND MAP FEATURES ARE FROM RENSSELAER COUNTY TAX MAPPING AND NEW YORK STATE CLEARING-HOUSE AERIAL PHOTOGRAPHY.
5. SHALLOW SOUTHERN IRZ (A LINE) CONSISTS OF THE FOLLOWING WELLS: IW-A2 AND IW-A3, IW-A5, IW-A6, AND IW-A7 WERE ABANDONED IN 2018.
6. SHALLOW NORTHERN IRZ (B LINE) CONSISTS OF THE FOLLOWING WELLS : IW-B1 THROUGH IW-B5.

0 60' 120'

GRAPHIC SCALE

ASHLAND INC.
RENSSELAER, NEW YORK

2021 CORRECTIVE MEASURES IMPLEMENTATION ANNUAL PROGRESS REPORT

IRZ AREA INJECTION WELL LOCATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: R. BASSETT, E. KRAHMER, R. ALLEN PM: W. GOLLA TM/TR: K. POTTER LYR:ON=*;OFF=REF; (FRZ)
C:\Users\jadhavp\89541ACCDocs\Arcadis\AUS-ASHLAND-RENSSELAER-RENSSELAER New York\Project Files\20211101-In Progress\01-DWG\GWM-2021-FIG02-INJECTION WELL LOCATIONS.dwg LAYOUT: 2 SAVED: 12/2/2020 9:54 AM ACADVER: 24.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE:
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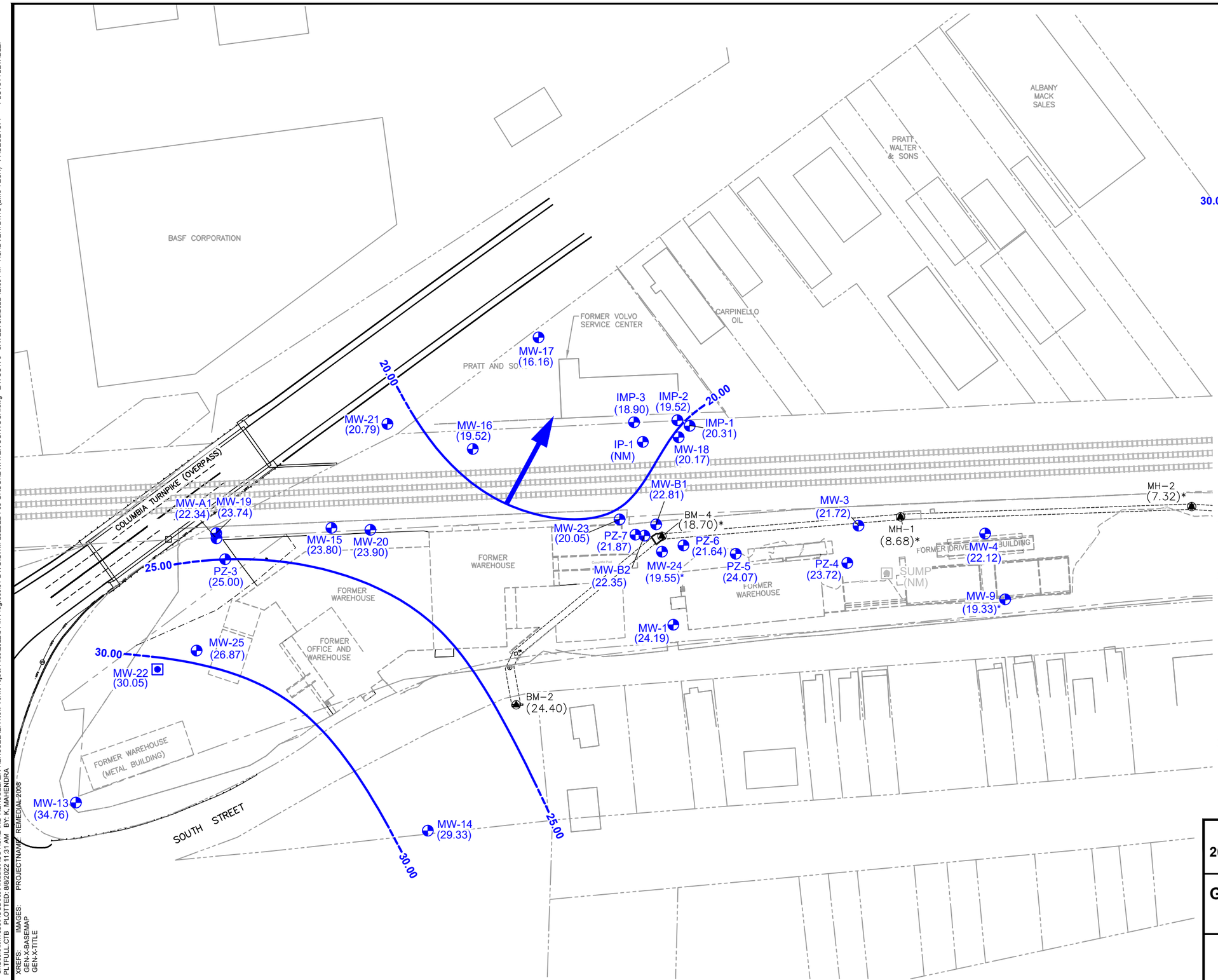

LEGEND:

- MW-1 / GP-18 / IMP-1 / IP-1 — PERFORMANCE MONITORING GROUNDWATER SAMPLING LOCATIONS
- (34.76) — GROUNDWATER ELEVATION COLLECTED ON APRIL 12, 2022 (FEET)
- MW-22 — ERD SYSTEM OPTIMIZATION INJECTION WELL(2017)
- 30.00 — GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
- MH–1 — CULVERTED STREAM PIPE INVERT ELEVATION/SURFACE WATER ELEVATION (NOT USED IN CONTOURING)
- SURFACE CONTOUR
- RAILROAD TRACK
- CULVERTED STREAM PIPE
- PROPERTY LINE
- FORMER BUILDINGS AND STRUCTURES
- * — WELL NOT USED IN CONTOURING
- (NM) — NOT MEASURED

NOTES:

1. INVERT ELEVATIONS FOR THE CULVERTED STREAM THAT RUNS EAST TO NORTHEAST ON THE SITE WERE SURVEYED BY THEW ASSOCIATES PE–LS, PLCC (OCTOBER 2008).
2. LOCATIONS AND TOPOGRAPHY EAST OF CSX RAILROAD PROPERTY AND WEST OF AND INCLUDING SOUTH STREET, SURVEYED BY THEW ASSOCIATES PE–LS, PLLC (OCTOBER 2008). TWO NEW MONITORING WELLS, MW–20 & MW–21, WERE SURVEYED ON JULY 2, 2010 BY THEW ASSOCIATES. REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE). VERTICAL REFERENCE TO NGVD 1929. ASHLAND PROPERTY BOUNDARY ESTABLISHED BY THEW ASSOCIATES SURVEY AND DEED RESEARCH (OCTOBER 2008). OTHER PROPERTY LINES AND MAP FEATURES ARE FROM RENSSELAER COUNTY TAX MAPPING AND NEW YORK STATE CLEARING–HOUSE AERIAL PHOTOGRAPHY.
3. MONITORING WELLS MW–22 THROUGH MW–24 LOCATIONS ARE APPROXIMATE.

0 100’ 200’

GRAPHIC SCALE

ASHLAND INC.
RENSSELAER, NEW YORK

2022 CORRECTIVE MEASURES IMPLEMENTATION ANNUAL PROGRESS REPORT

GROUNDWATER ELEVATION CONTOURS APRIL 12, 2022

ARCADIS

FIGURE 3

CITY: SYRACUSE, NY GROUP: ENVCAD DB: P. LISTER, E. KRAHMER, R. ALLEN PM: M. KITTINGER TM/TR: K. POTTER LYR:ON=*;OFF=REF, (FRZ)
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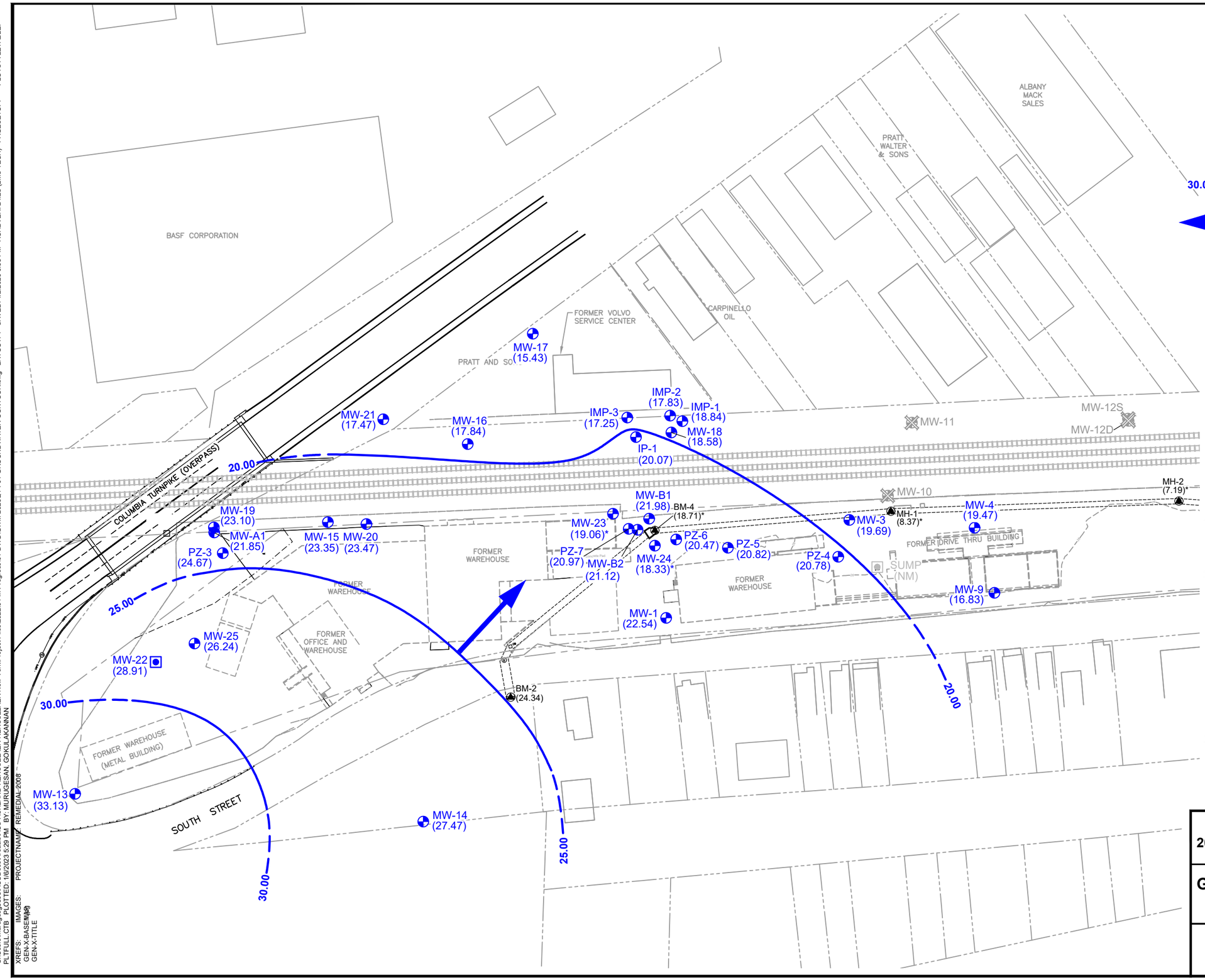
GEN-X-TITLE



LEGEND:

- MW-1, GP-18, IMP-1, IP-1 — PERFORMANCE MONITORING GROUNDWATER SAMPLING LOCATIONS
- (33.13) — GROUNDWATER ELEVATION COLLECTED ON APRIL 12, 2022 (FEET)
- MW-22 — ERD SYSTEM OPTIMIZATION INJECTION WELL(2017)
- 30.00 — GROUNDWATER ELEVATION CONTOUR LINE (DASHED WHERE INFERRED)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- MH–1 — CULVERTED STREAM PIPE INVERT ELEVATION/SURFACE WATER ELEVATION (NOT USED IN CONTOURING)
- SURFACE CONTOUR
- RAILROAD TRACK
- CULVERTED STREAM PIPE
- PROPERTY LINE
- FORMER BUILDINGS AND STRUCTURES
- * WELL NOT USED IN CONTOURING
- (NM) NOT MEASURED
- MONITORING WELLS MW–11, MW–12 WERE ABANDONED ON 12/10/2021 AND MW–10 ON 05/27/2021.

NOTES:

1. INVERT ELEVATIONS FOR THE CULVERTED STREAM THAT RUNS EAST TO NORTHEAST ON THE SITE WERE SURVEYED BY THEW ASSOCIATES PE–LS, PLCC (OCTOBER 2008).
2. LOCATIONS AND TOPOGRAPHY EAST OF CSX RAILROAD PROPERTY AND WEST OF AND INCLUDING SOUTH STREET, SURVEYED BY THEW ASSOCIATES PE–LS, PLLC (OCTOBER 2008). TWO NEW MONITORING WELLS, MW–20 & MW–21, WERE SURVEYED ON JULY 2, 2010 BY THEW ASSOCIATES. REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE). VERTICAL REFERENCE TO NGVD 1929. ASHLAND PROPERTY BOUNDARY ESTABLISHED BY THEW ASSOCIATES SURVEY AND DEED RESEARCH (OCTOBER 2008). OTHER PROPERTY LINES AND MAP FEATURES ARE FROM RENSSELAER COUNTY TAX MAPPING AND NEW YORK STATE CLEARING–HOUSE AERIAL PHOTOGRAPHY.
3. MONITORING WELLS MW–22 THROUGH MW–24 LOCATIONS ARE APPROXIMATE.

0 100' 200'

GRAPHIC SCALE

ASHLAND INC.
RENSSELAER, NEW YORK

2022 CORRECTIVE MEASURES IMPLEMENTATION ANNUAL PROGRESS REPORT

GROUNDWATER ELEVATION CONTOURS NOVEMBER 2, 2022

ARCADIS

FIGURE 4

CITY: SYRACUSE_NY GROUP: ENVCAD DB: P. LISTER, E. KRAHMER, R. ALLEN PM: M. KITTINGER TM/TR: K. POTTER LYR:ON=*;OFF=REF, (FRZ)
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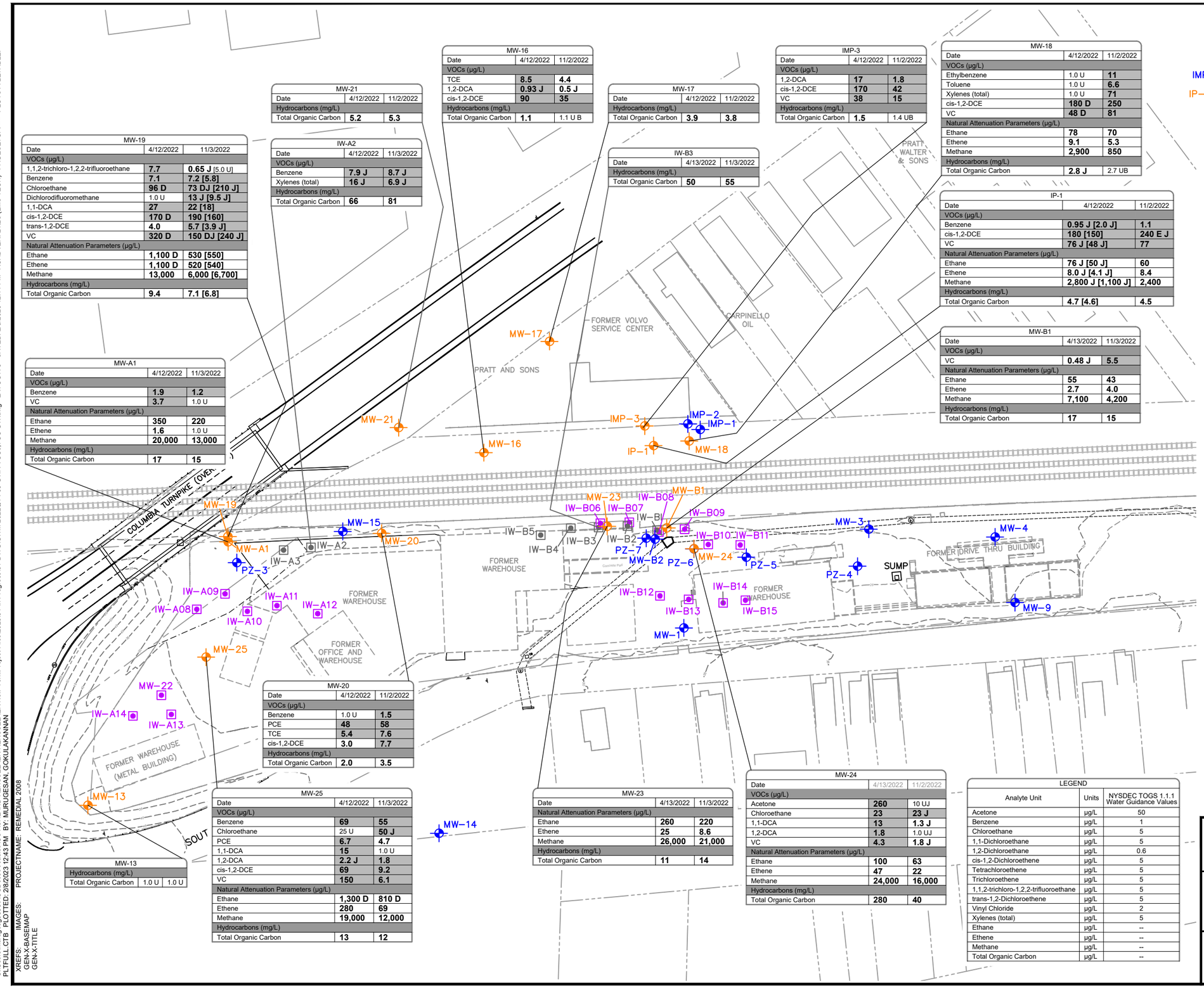

MW-19		
Date	4/12/2022	11/3/2022
VOCs (µg/L)		
1,1,2-trichloro-1,2,2-trifluoroethane	7.7	0.65 J [5.0 U]
Benzene	7.1	7.2 [5.8]
Chloroethane	96 D	73 DJ [210 J]
Dichlorodifluoromethane	1.0 U	13 J [9.5 J]
1,1-DCA	27	22 [18]
cis-1,2-DCE	170 D	190 [160]
trans-1,2-DCE	4.0	5.7 [3.9 J]
VC	320 D	150 DJ [240 J]
Natural Attenuation Parameters (µg/L)		
Ethane	1,100 D	530 [550]
Ethene	1,100 D	520 [540]
Methane	13,000	6,000 [6,700]
Hydrocarbons (mg/L)		
Total Organic Carbon	9.4	7.1 [6.8]

MW-A1		
Date	4/12/2022	11/3/2022
VOCs (µg/L)		
Benzene	1.9	1.2
VC	3.7	1.0 U
Natural Attenuation Parameters (µg/L)		
Ethane	350	220
Ethene	1.6	1.0 U
Methane	20,000	13,000
Hydrocarbons (mg/L)		
Total Organic Carbon	17	15

MW-21		
Date	4/12/2022	11/2/2022
Hydrocarbons (mg/L)		
Total Organic Carbon	5.2	5.3

IW-A2		
Date	4/12/2022	11/3/2022
VOCs (µg/L)		
Benzene	7.9 J	8.7 J
Xylenes (total)	16 J	6.9 J
Hydrocarbons (mg/L)		
Total Organic Carbon	66	81

MW-16		
Date	4/12/2022	11/2/2022
VOCs (µg/L)		
TCE	8.5	4.4
1,2-DCA	0.93 J	0.5 J
cis-1,2-DCE	90	35
Hydrocarbons (mg/L)		
Total Organic Carbon	1.1	1.1 U B

MW-17		
Date	4/12/2022	11/2/2022
Hydrocarbons (mg/L)		
Total Organic Carbon	3.9	3.8

IW-B3		
Date	4/13/2022	11/3/2022
Hydrocarbons (mg/L)		
Total Organic Carbon	50	55

IMP-3		
Date	4/12/2022	11/2/2022
VOCs (µg/L)		
1,2-DCA	17	1.8
cis-1,2-DCE	170	42
VC	38	15
Hydrocarbons (mg/L)		
Total Organic Carbon	1.5	1.4 UB

MW-18		
Date	4/12/2022	11/2/2022
VOCs (µg/L)		
Ethylbenzene	1.0 U	11
Toluene	1.0 U	6.6
Xylenes (total)	1.0 U	71
cis-1,2-DCE	180 D	250
VC	48 D	81
Natural Attenuation Parameters (µg/L)		
Ethane	78	70
Ethene	9.1	5.3
Methane	2,900	850
Hydrocarbons (mg/L)		
Total Organic Carbon	2.8 J	2.7 UB

IP-1		
Date	4/12/2022	11/2/2022
VOCs (µg/L)		
Benzene	0.95 J [2.0 J]	1.1
cis-1,2-DCE	180 [150]	240 E J
VC	76 J [48 J]	77
Natural Attenuation Parameters (µg/L)		
Ethane	76 J [50 J]	60
Ethene	8.0 J [4.1 J]	8.4
Methane	2,800 J [1,100 J]	2,400
Hydrocarbons (mg/L)		
Total Organic Carbon	4.7 [4.6]	4.5

MW-B1		
Date	4/13/2022	11/3/2022
VOCs (µg/L)		
VC	0.48 J	5.5
Natural Attenuation Parameters (µg/L)		
Ethane	55	43
Ethene	2.7	4.0
Methane	7,100	4,200
Hydrocarbons (mg/L)		
Total Organic Carbon	17	15

MW-20		
Date	4/12/2022	11/2/2022
VOCs (µg/L)		
Benzene	1.0 U	1.5
PCE	48	58
TCE	5.4	7.6
cis-1,2-DCE	3.0	7.7
Hydrocarbons (mg/L)		
Total Organic Carbon	2.0	3.5

MW-25		
Date	4/12/2022	11/3/2022
VOCs (µg/L)		
Benzene	69	55
Chloroethane	25 U	50 J
PCE	6.7	4.7
1,1-DCA	15	1.0 U
1,2-DCA	2.2 J	1.8
cis-1,2-DCE	69	9.2
VC	150	6.1
Natural Attenuation Parameters (µg/L)		
Ethane	1,300 D	810 D
Ethene	280	69
Methane	19,000	12,000
Hydrocarbons (mg/L)		
Total Organic Carbon	13	12

MW-13		
Hydrocarbons (mg/L)		
Total Organic Carbon	1.0 U	1.0 U

MW-23		
Date	4/13/2022	11/3/2022
Natural Attenuation Parameters (µg/L)		
Ethane	260	220
Ethene	25	8.6
Methane	26,000	21,000
Hydrocarbons (mg/L)		
Total Organic Carbon	11	14

MW-24		
Date	4/13/2022	11/2/2022
VOCs (µg/L)		
Acetone	260	10 UJ
Chloroethane	23	23 J
1,1-DCA	13	1.3 J
1,2-DCA	1.8	1.0 UJ
VC	4.3	1.8 J
Natural Attenuation Parameters (µg/L)		
Ethane	100	63
Ethene	47	22
Methane	24,000	16,000
Hydrocarbons (mg/L)		
Total Organic Carbon	280	40

LEGEND:

- IMP-1/MW-1/PZ-1 — GROUNDWATER GAUGING WELL
- IP-1/IMP-3/MW-16 — PERFORMANCE MONITORING GROUNDWATER SAMPLING LOCATIONS
- IW-A2 — SHALLOW INJECTION WELL LOCATION (2010)
- IW-A14 — ERD SYSTEM OPTIMIZATION INJECTION WELL (2018)
- SURFACE CONTOUR
- RAILROAD TRACK
- CULVERTED STREAM PIPE
- PROPERTY LINE
- FORMER BUILDINGS AND STRUCTURES

B	COMPOUND WAS FOUND IN THE BLANK AND SAMPLE
D	COMPOUND QUANTITATED USING A SECONDARY DILUTION
J	INDICATES AN ESTIMATED VALUE
U	INDICATES THE ANALYTE WAS ANALYZED FOR BUT NOT DETECTED
E	RESULTS EXCEED THE CALIBRATION RANGE
cis-1,2-DCE	CIS-1,2-DICHLOROETHENE
VC	VINYL CHLORIDE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
1,1-DCA	1,1-DICHLOROETHANE
1,2-DCA	1,2-DICHLOROETHANE
trans-1,2-DCE	TRANS-1,2-DICHLOROETHENE
VOCs	VOLATILE ORGANIC COMPOUNDS
NYSDEC TOGS	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION TECHNICAL AND OPERATION GUIDANCE SERIES
(µg/L)	MICROGRAMS PER LITER
(mg/L)	MILLIGRAMS PER LITER

BOLD RESULTS DENOTE DETECTIONS

SHADED CELLS DENOTE RESULTS EXCEEDING NYSDEC TOGS 1.1.1 WATER GUIDANCE VALUES/STANDARDS

DUPLICATE RESULTS ARE IN BRACKETS

ONLY VOC CONSTITUENTS WITH ONE OR MORE EXCEEDANCES AT A GIVEN LOCATION ARE SUMMARIZED

0 100’ 200’

GRAPHIC SCALE

LEGEND		
Analyte Unit	Units	NYSDEC TOGS 1.1.1 Water Guidance Values
Acetone	µg/L	50
Benzene	µg/L	1
Chloroethane	µg/L	5
1,1-Dichloroethane	µg/L	5
1,2-Dichloroethane	µg/L	0.6
cis-1,2-Dichloroethene	µg/L	5
Tetrachloroethene	µg/L	5
Trichloroethene	µg/L	5
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	5
trans-1,2-Dichloroethene	µg/L	5
Vinyl Chloride	µg/L	2
Xylenes (total)	µg/L	5
Ethane	µg/L	--
Ethene	µg/L	--
Methane	µg/L	--
Total Organic Carbon	µg/L	--

ASHLAND INC.
RENSSELAER, NEW YORK

2022 CORRECTIVE MEASURES IMPLEMENTATION ANNUAL PROGRESS REPORT

VOCs, TOC AND MNA PARAMETERS IN GROUNDWATER 2022

ARCADIS

FIGURE 5

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: R. BASSETT, E. KRAHMER, R. ALLEN PM: W. GOLLA TM/TR: K. POTTER LYR:ON=*;OFF=REF (FRZ)
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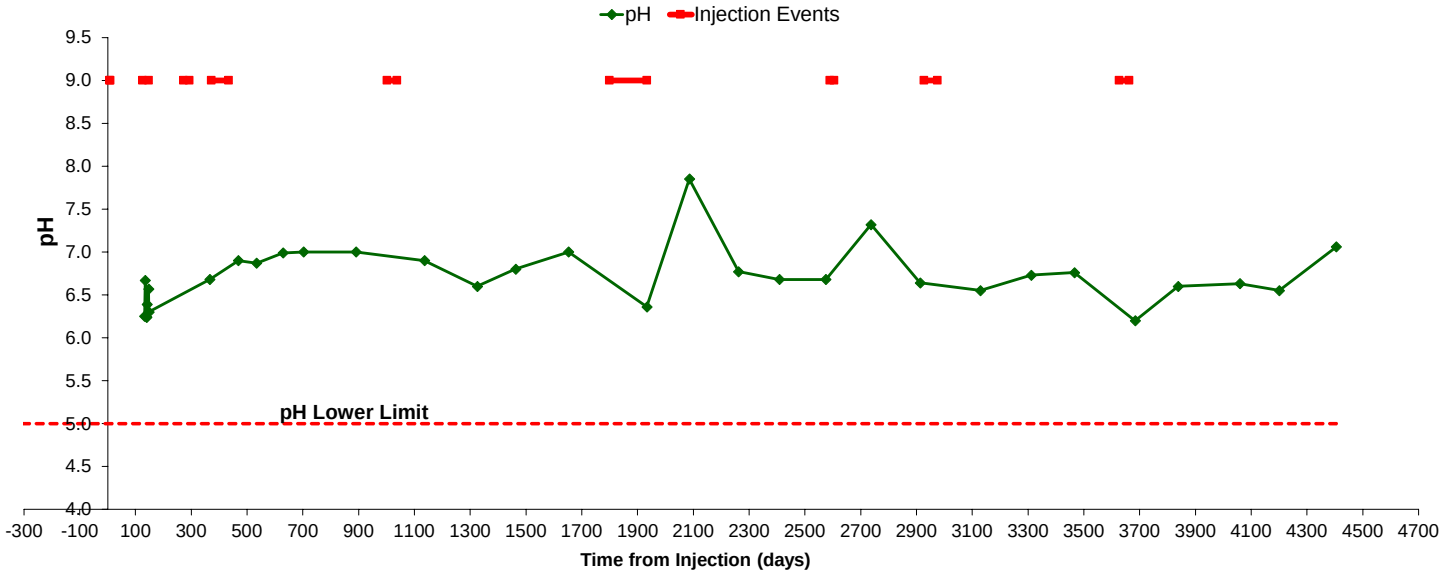
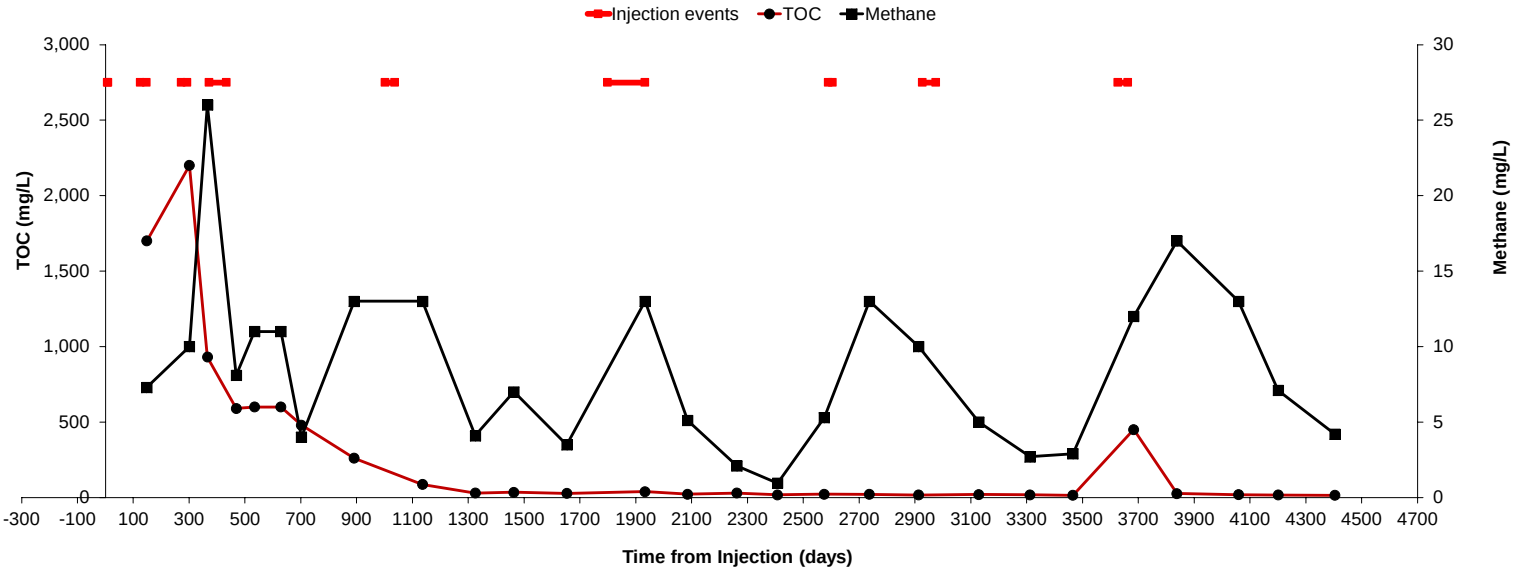
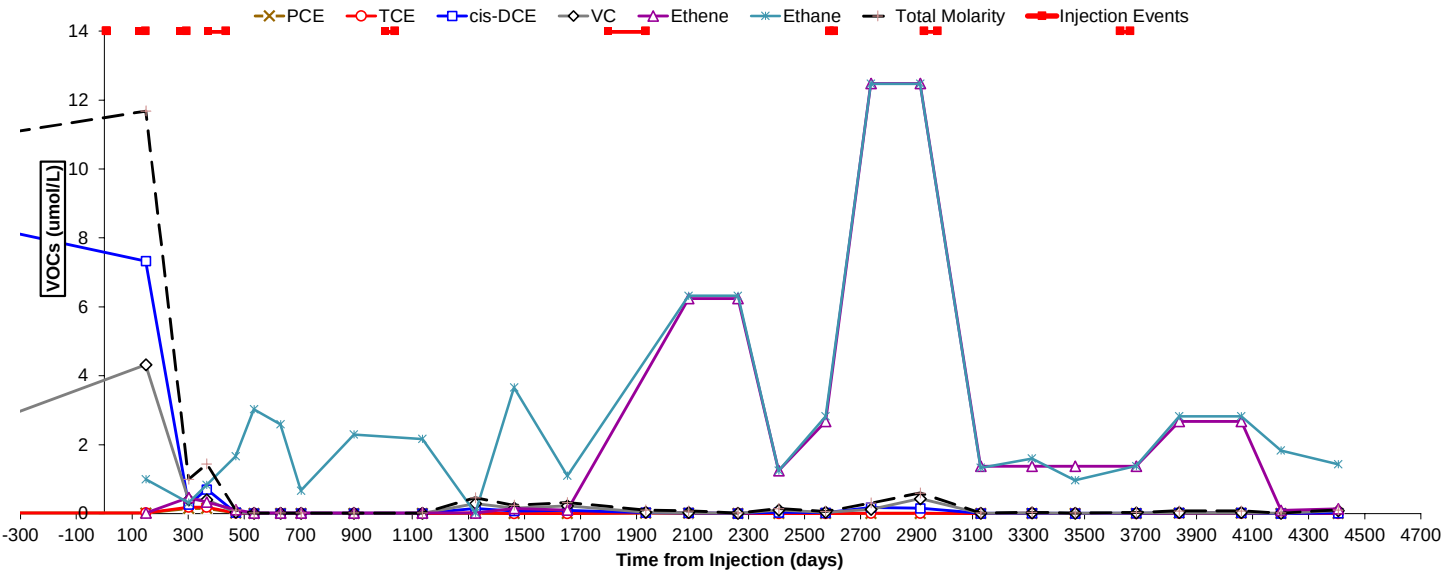
GEN-X-TITLE





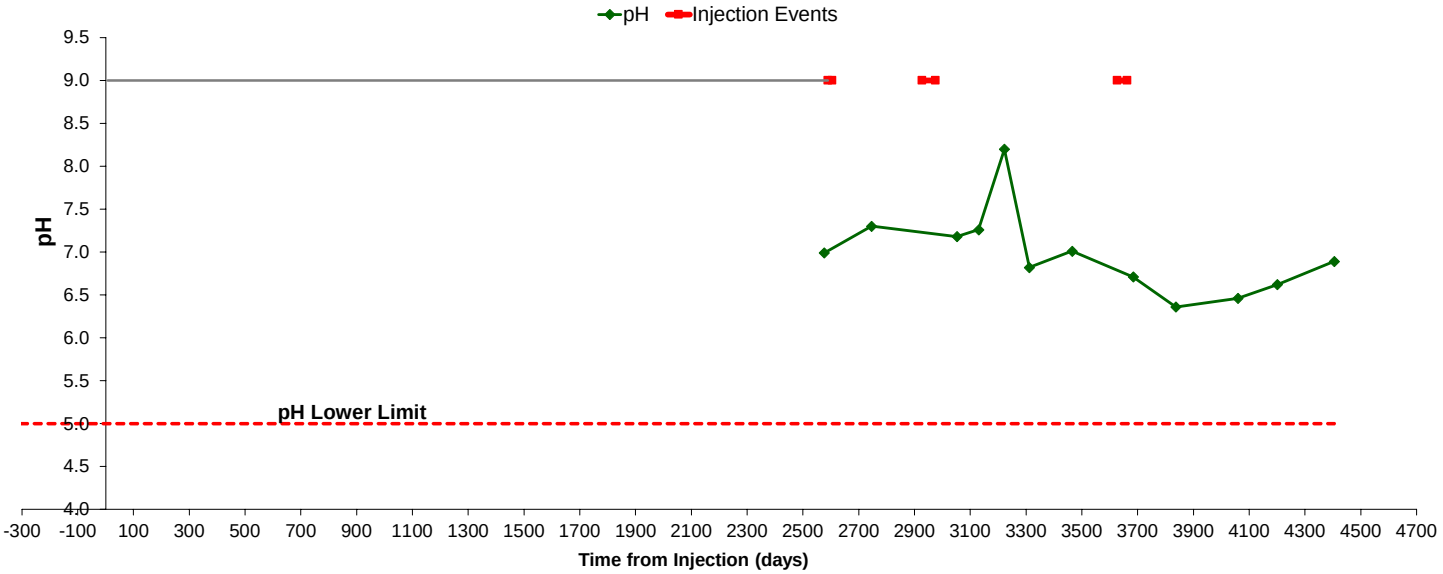


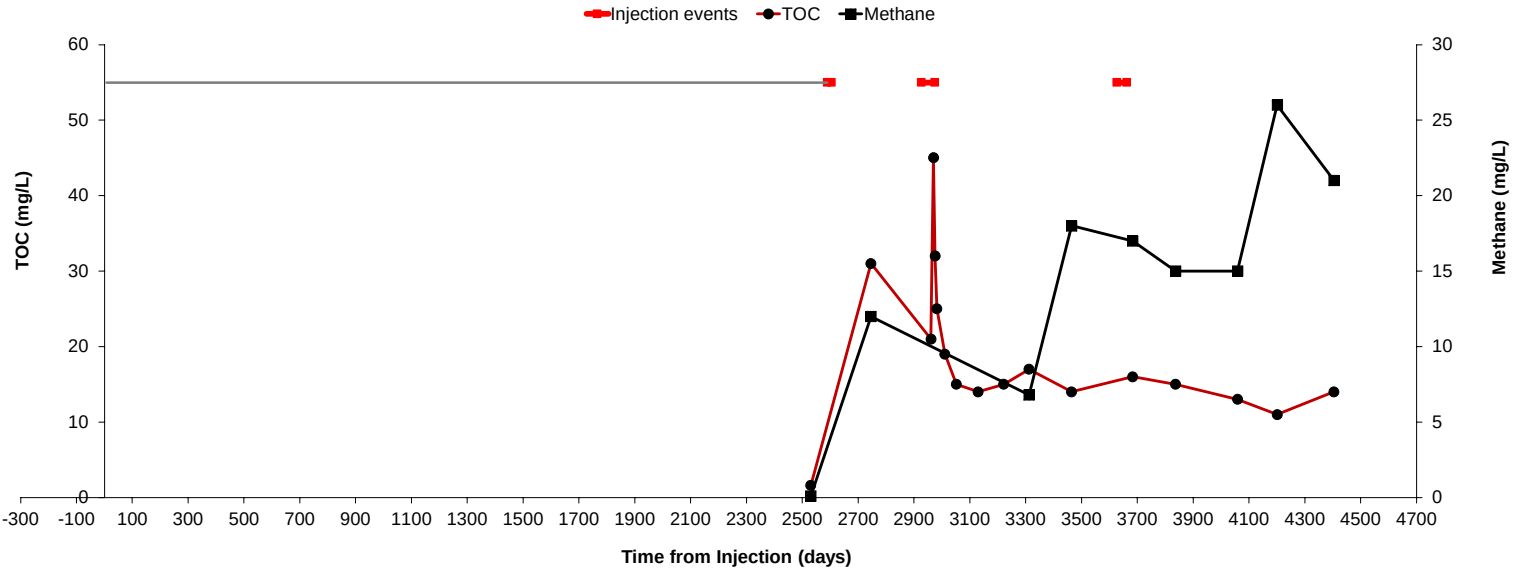
ASHLAND INC.
RENSSELAER NEW YORK
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

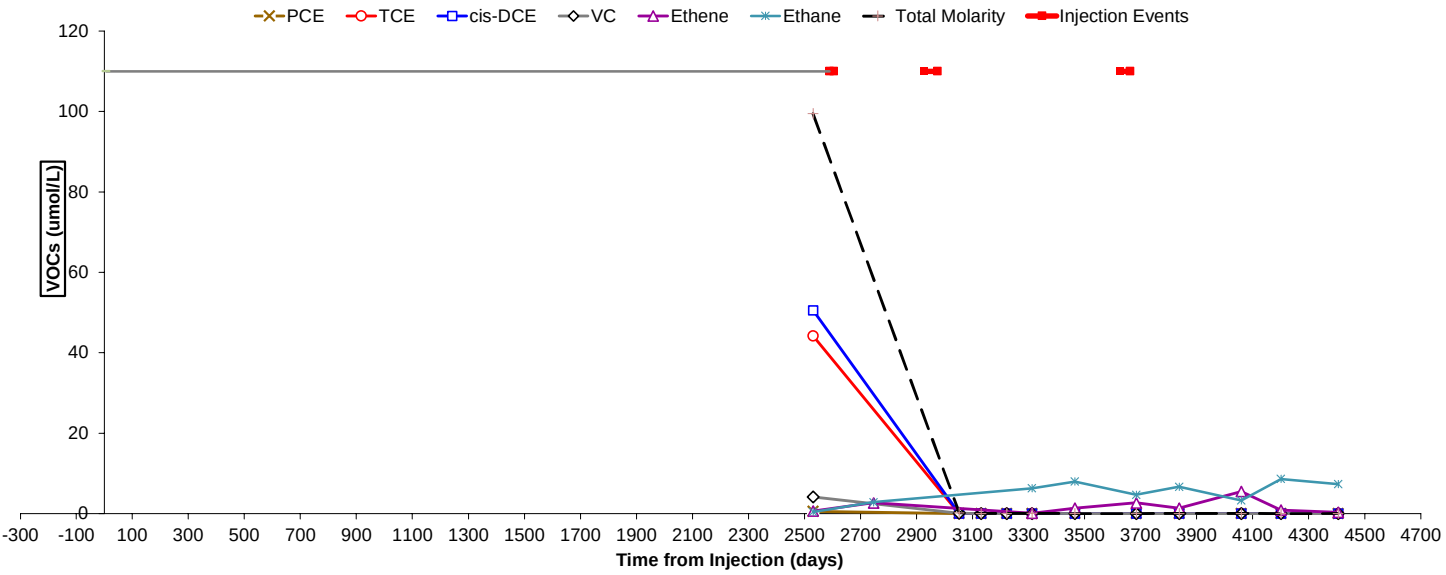
MW-B1 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
6







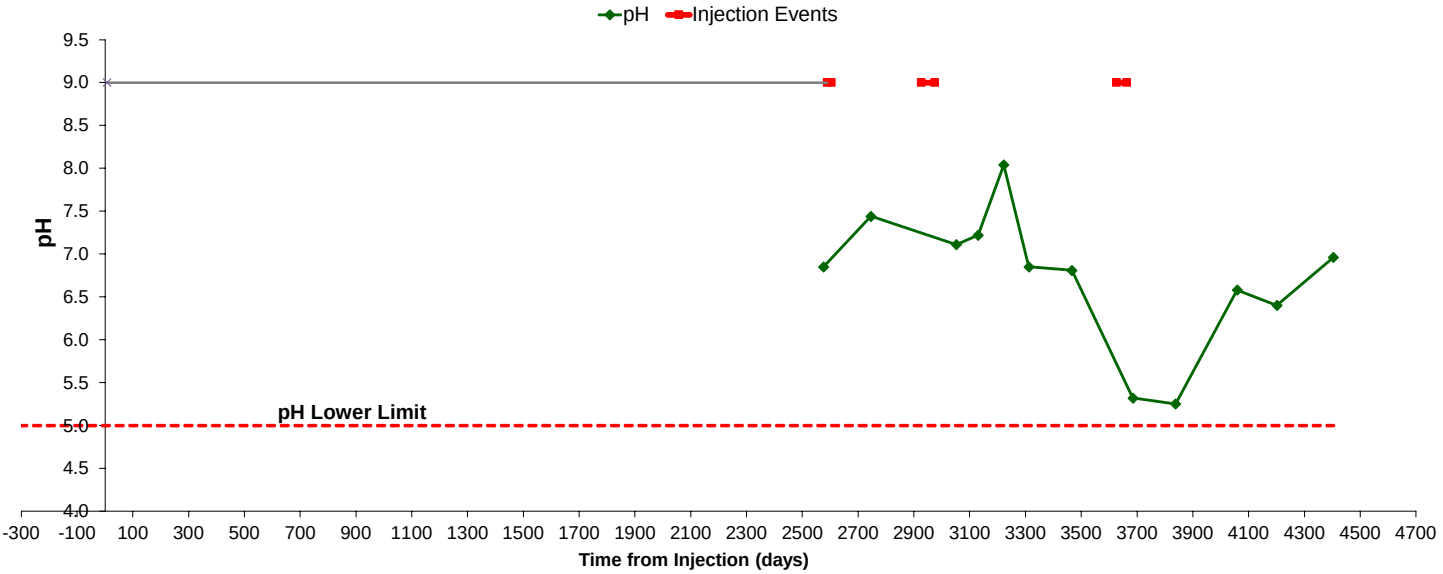
Note: Well was installed in September 2017. Gray lines indicate timeframe of historical injections completed prior to well installation and related remedial activity.

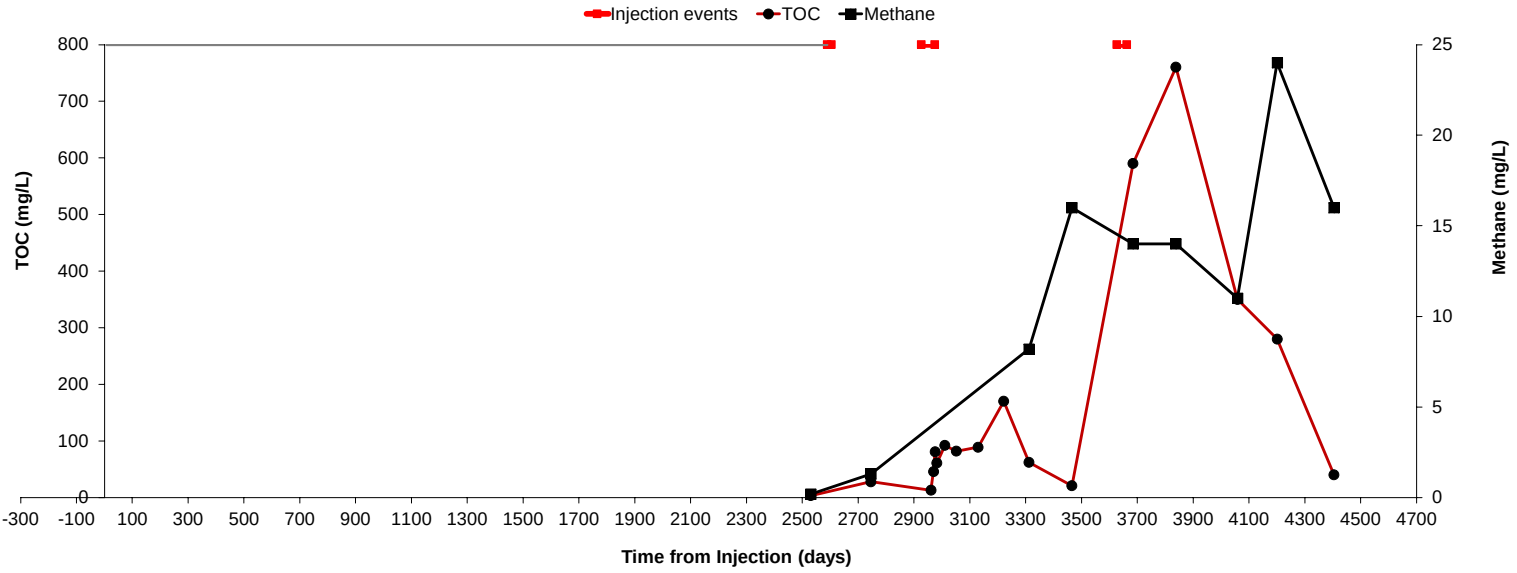
ASHLAND INC.
RENSSELAER NEW YORK
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

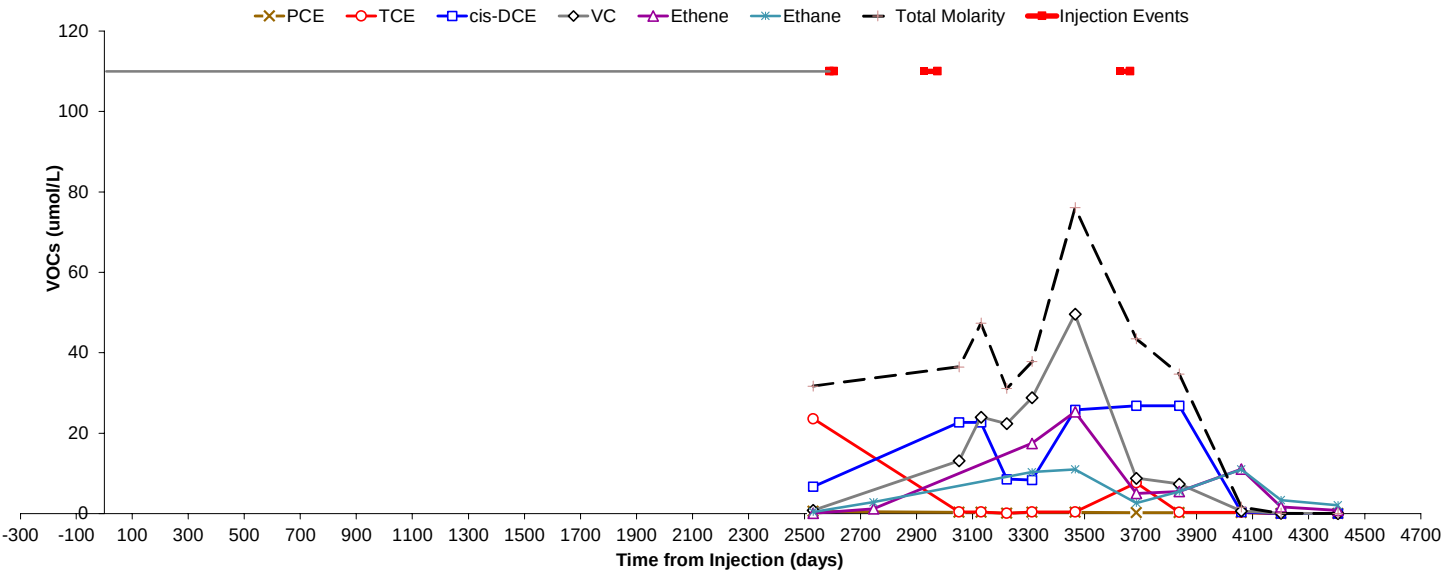
MW-23 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
7







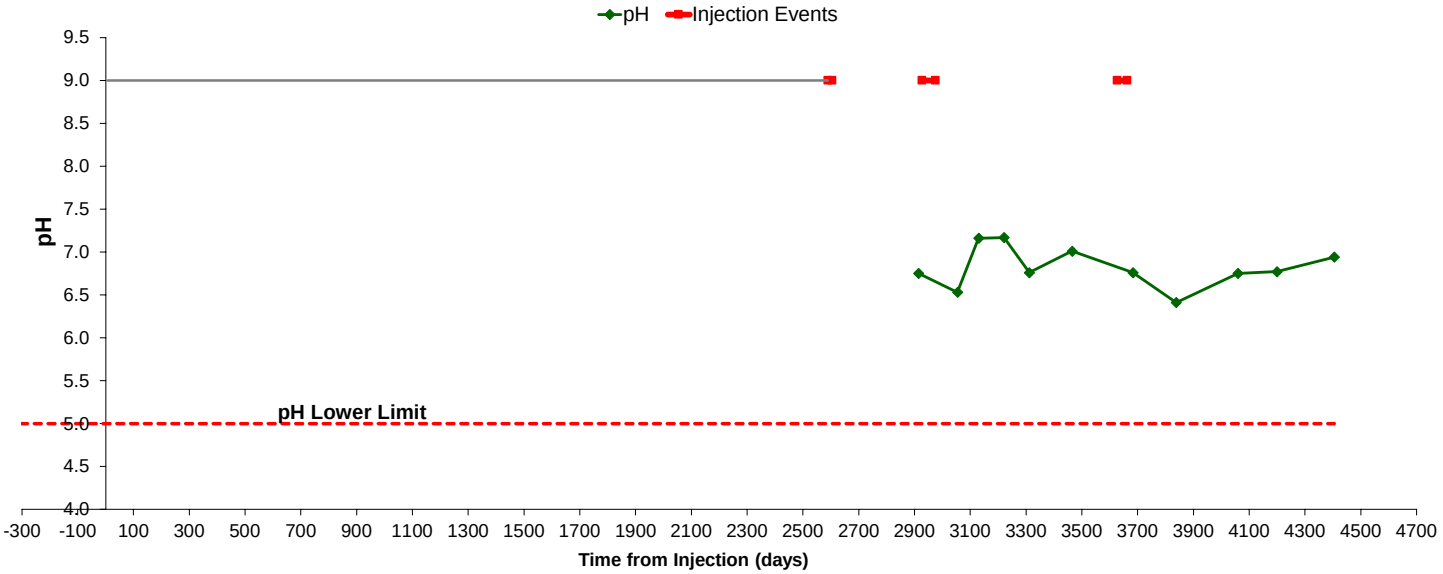
Note: Well was installed in September 2017. Gray lines indicate timeframe of historical injections completed prior to well installation and related remedial activity.

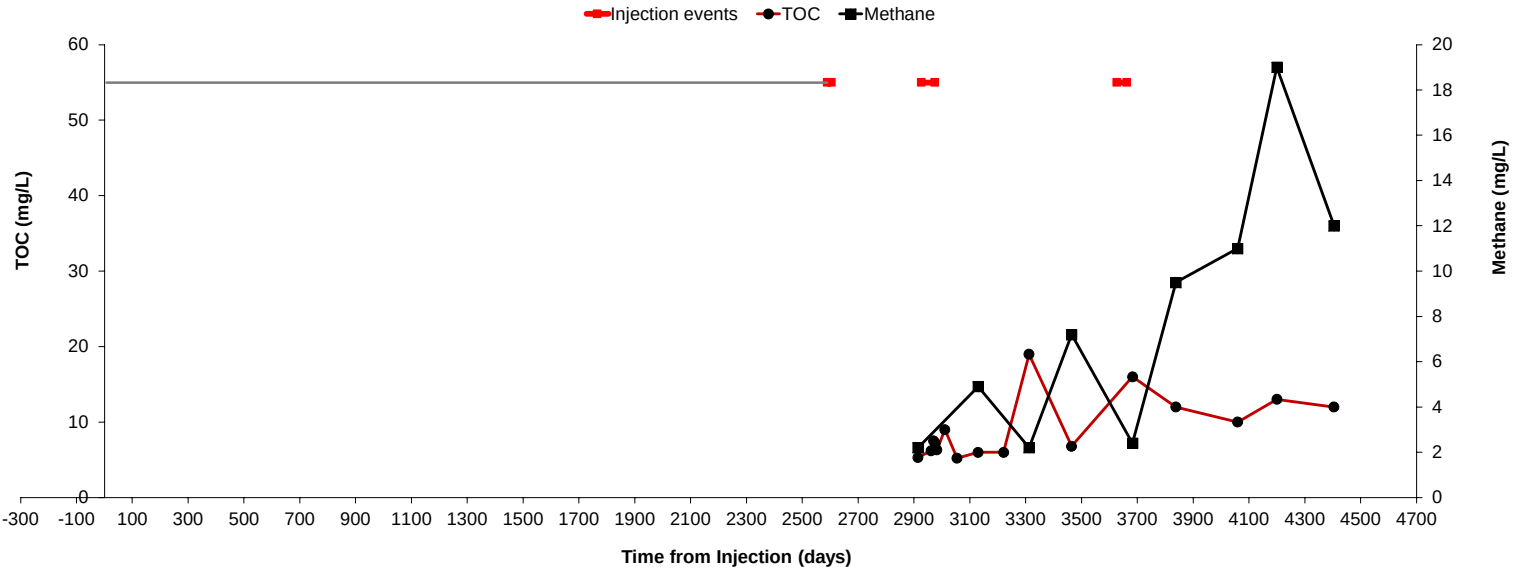
ASHLAND INC.
RENSSELAER NEW YORK
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

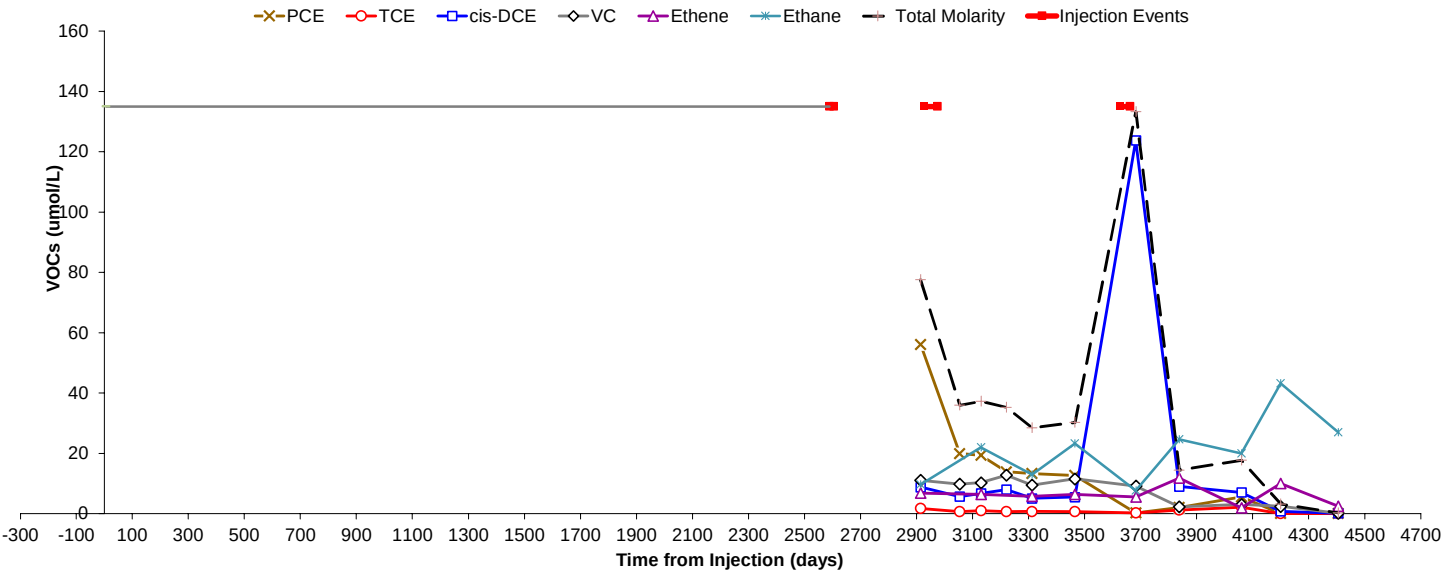
MW-24 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
8







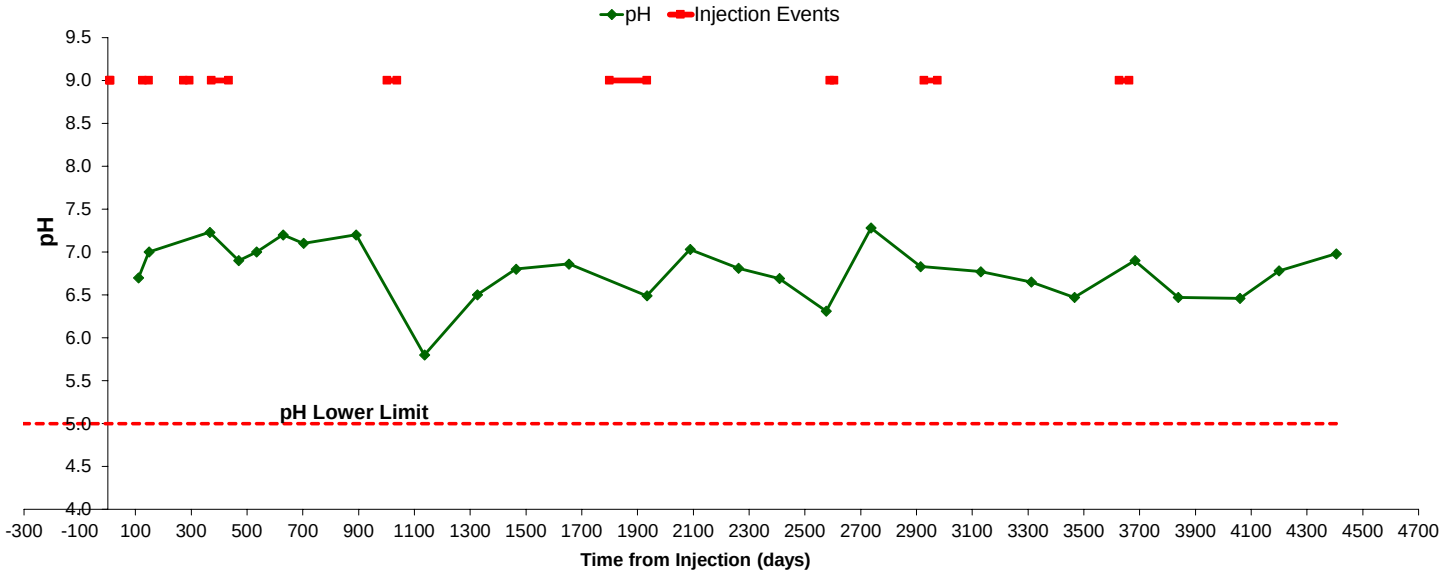
Note: Well was installed in October 2018. Gray lines indicate timeframe of historical injections completed prior to well installation and related remedial activity.

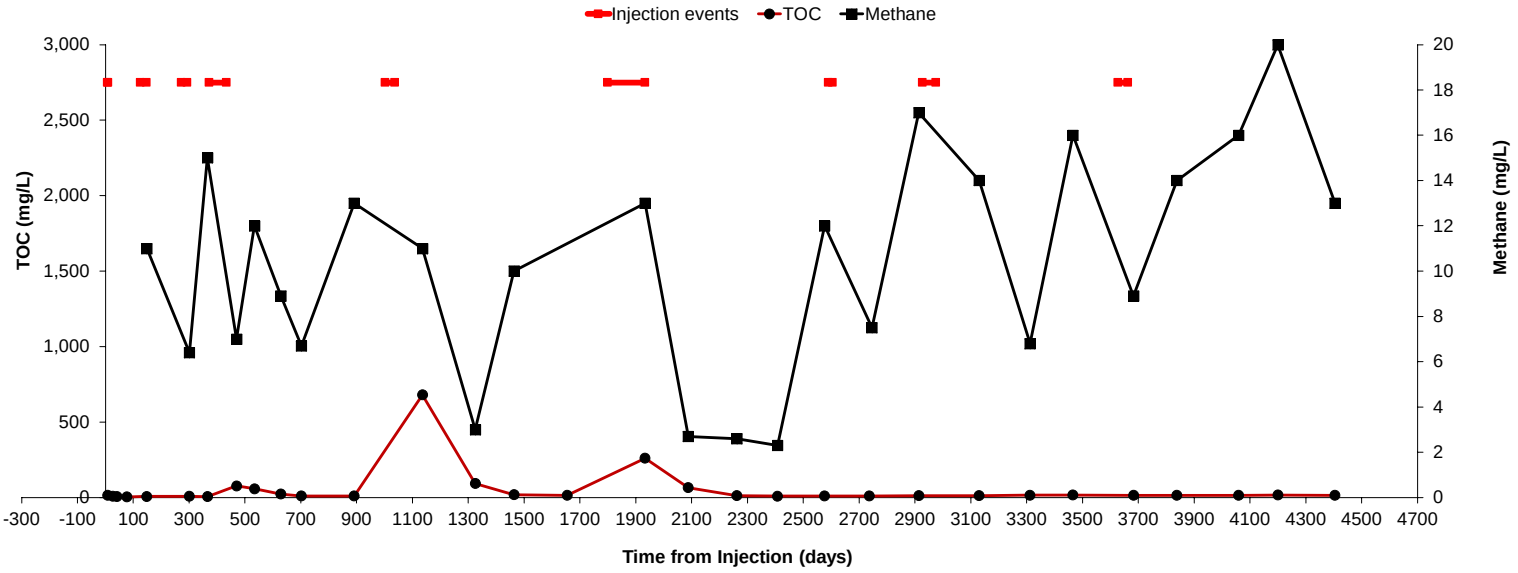
ASHLAND INC.
RENSSELAER NEW YORK
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

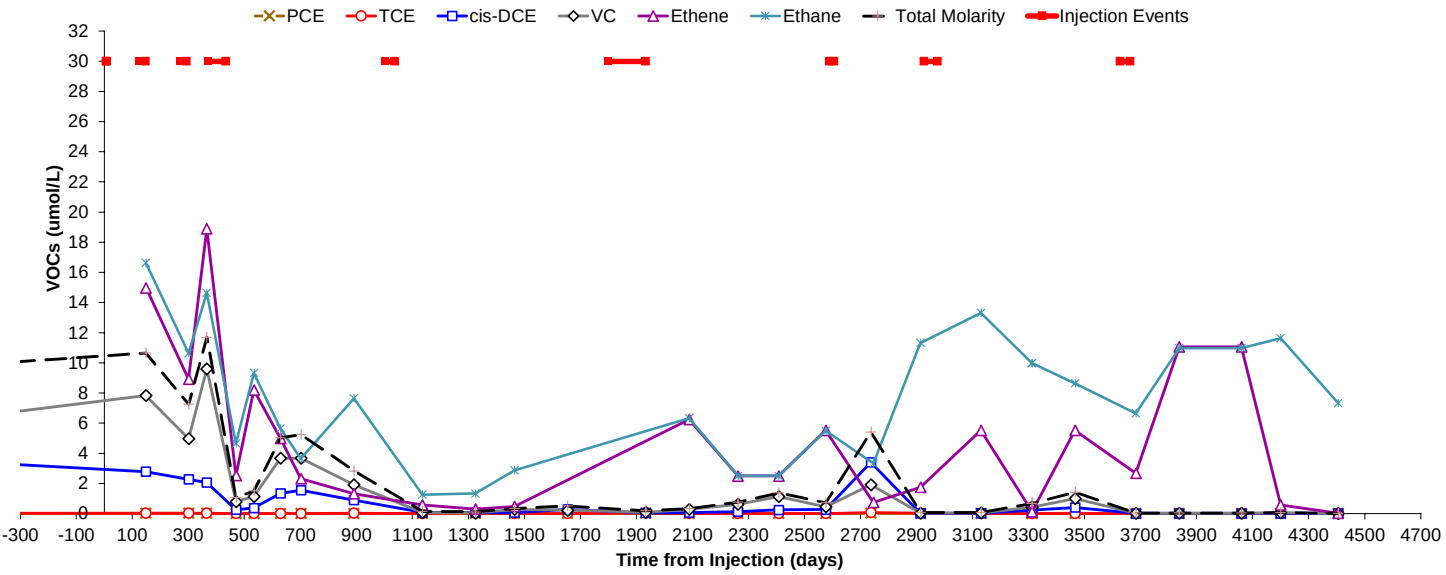
MW-25 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
9







ASHLAND INC.
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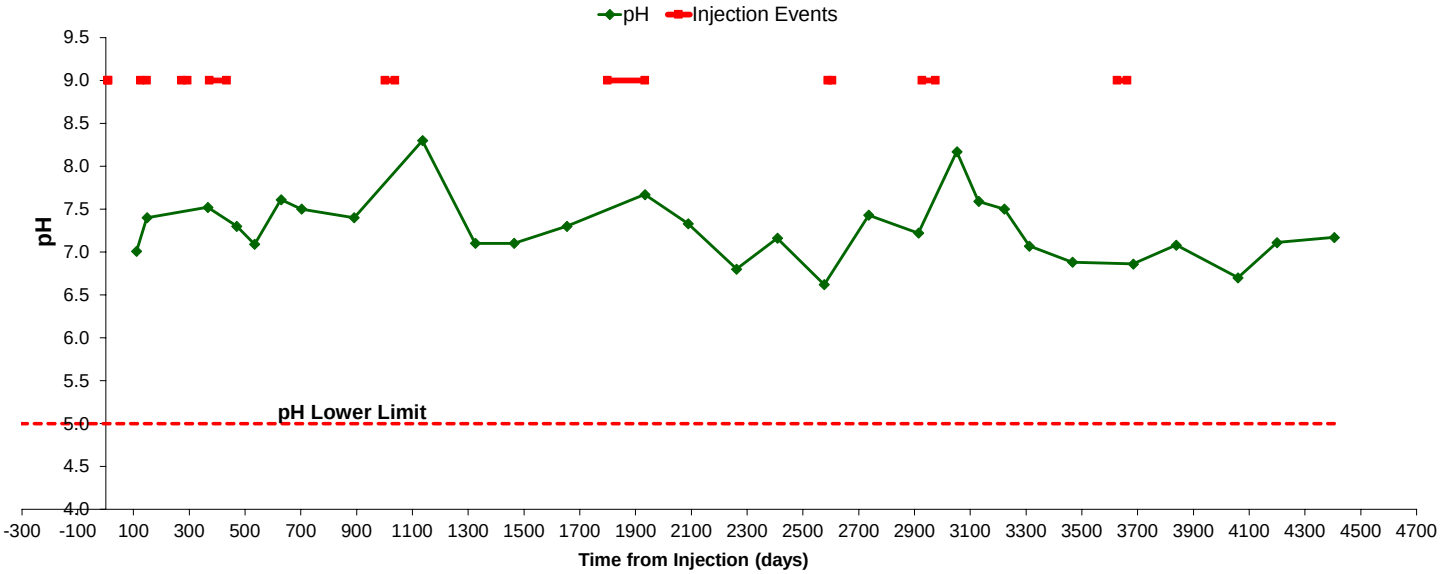
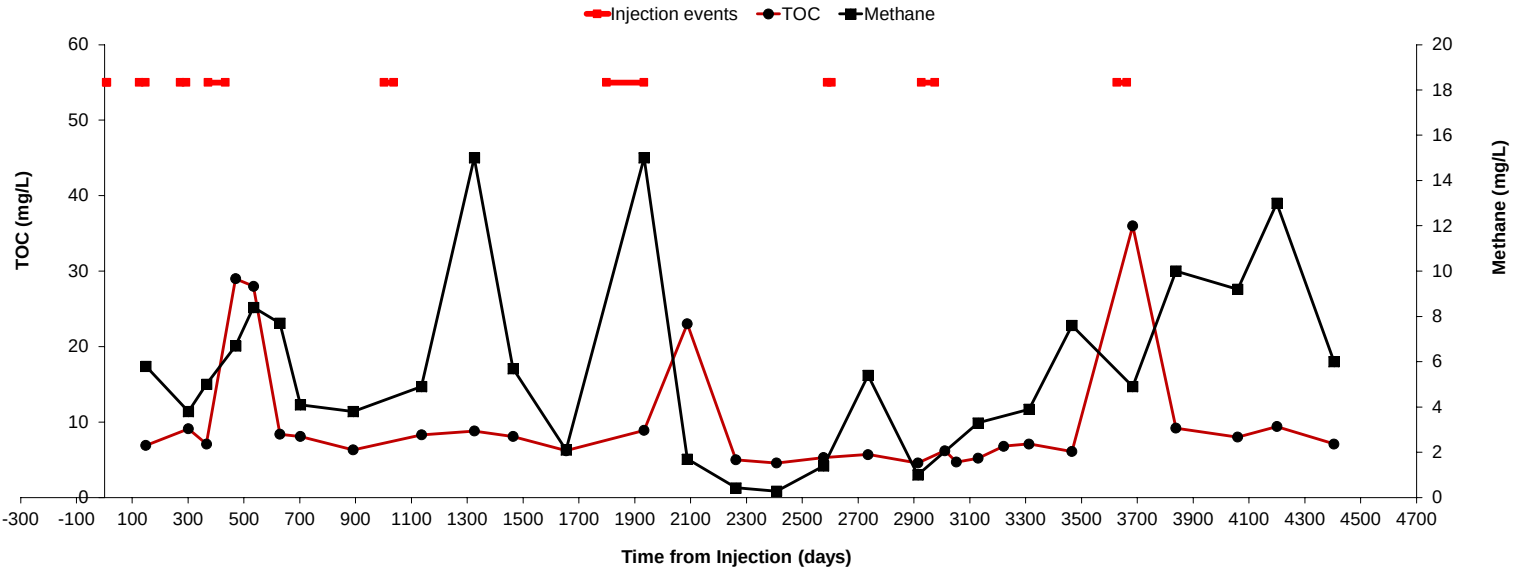
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

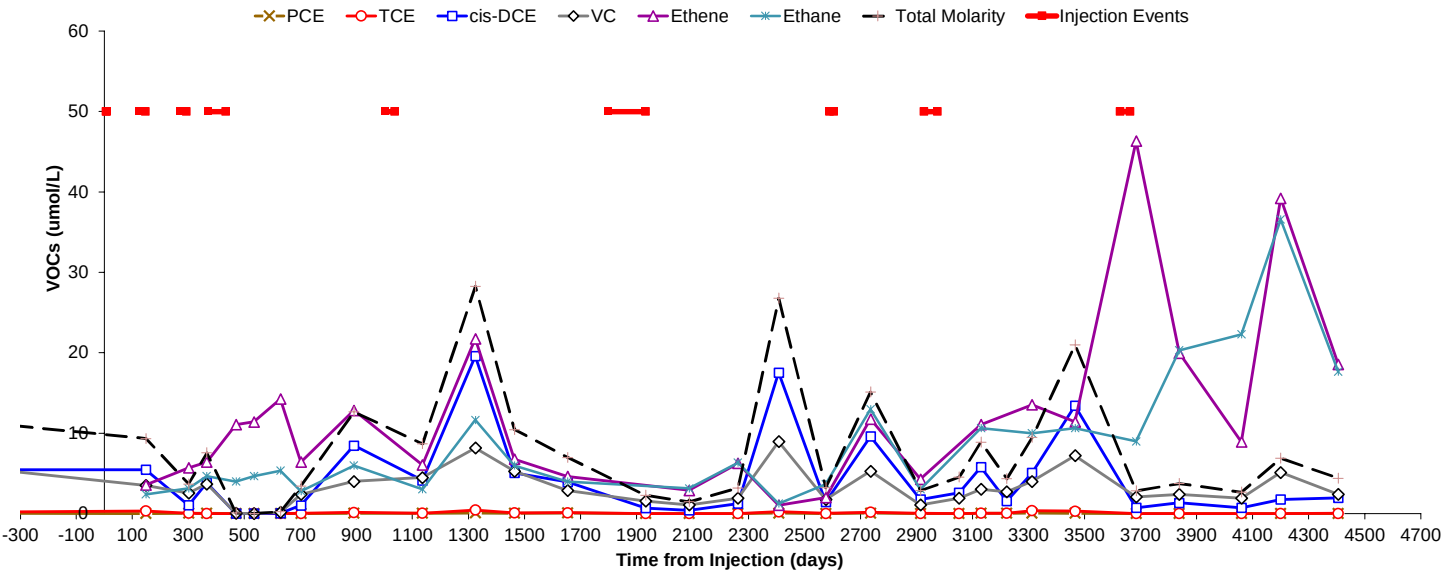
MW-A1 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
10







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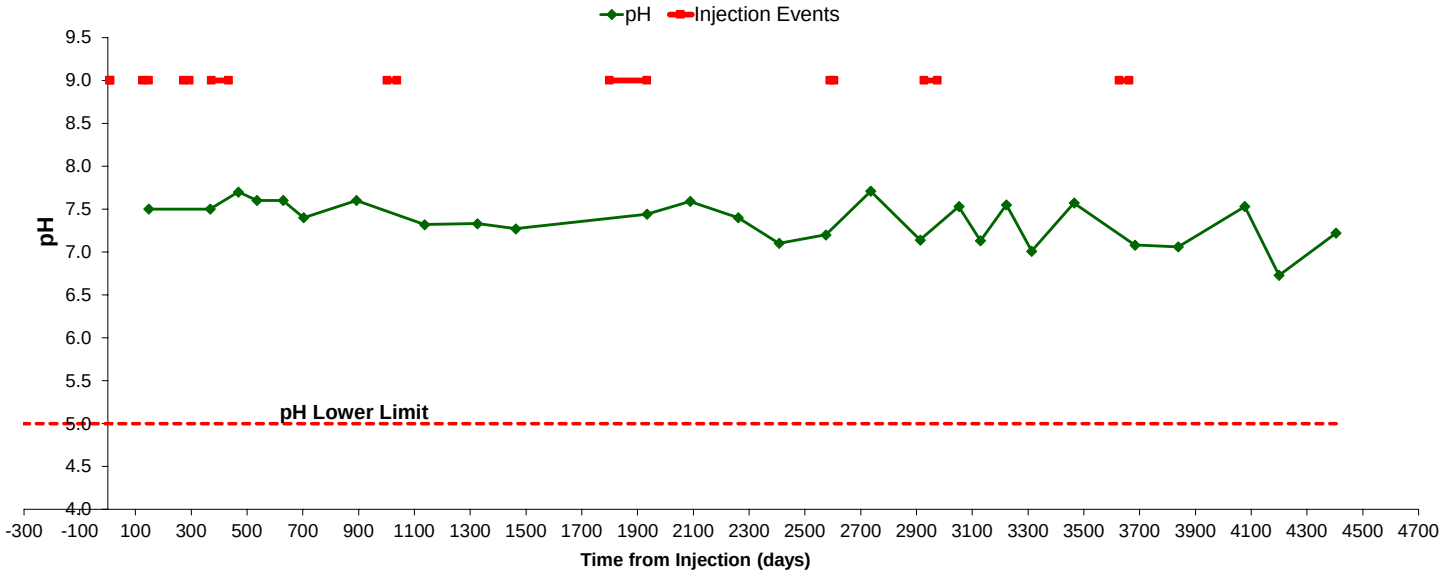
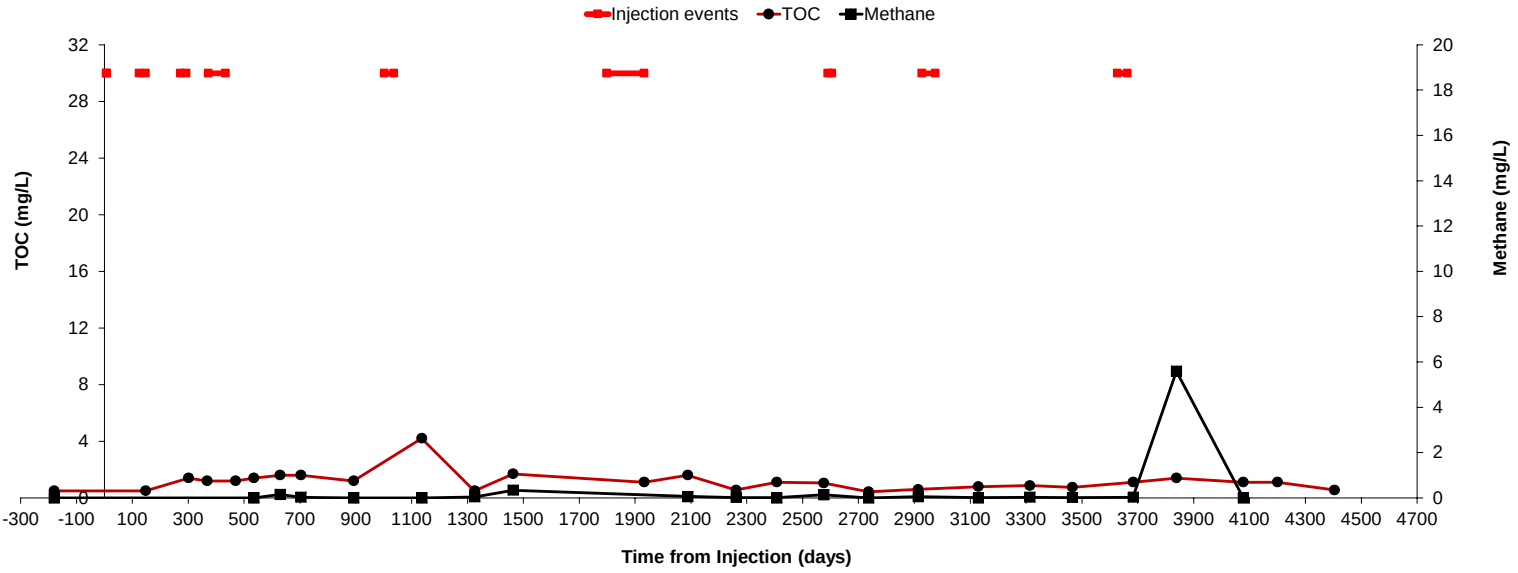
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

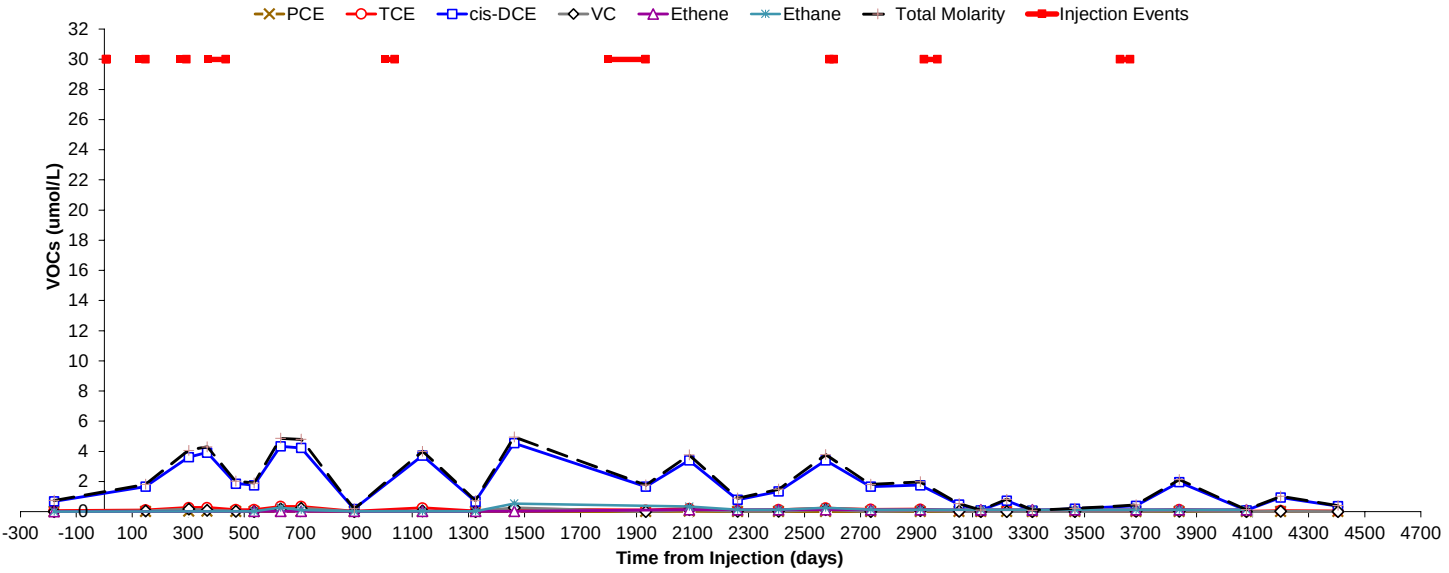
MW-19 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
11





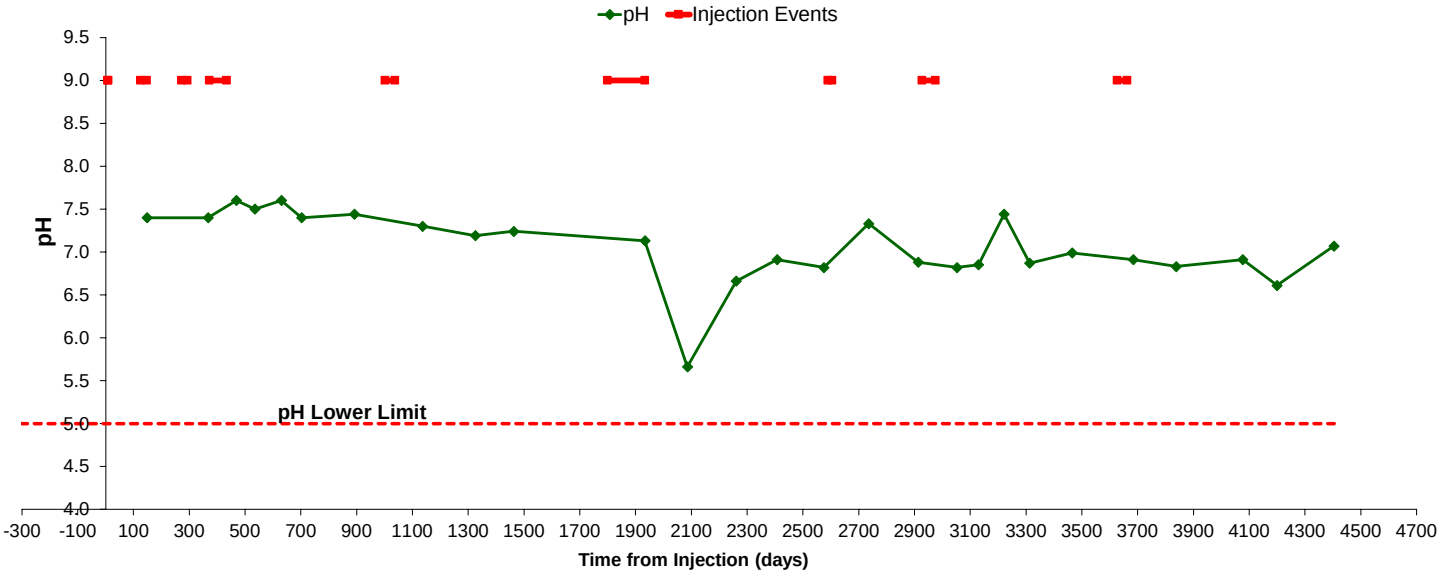


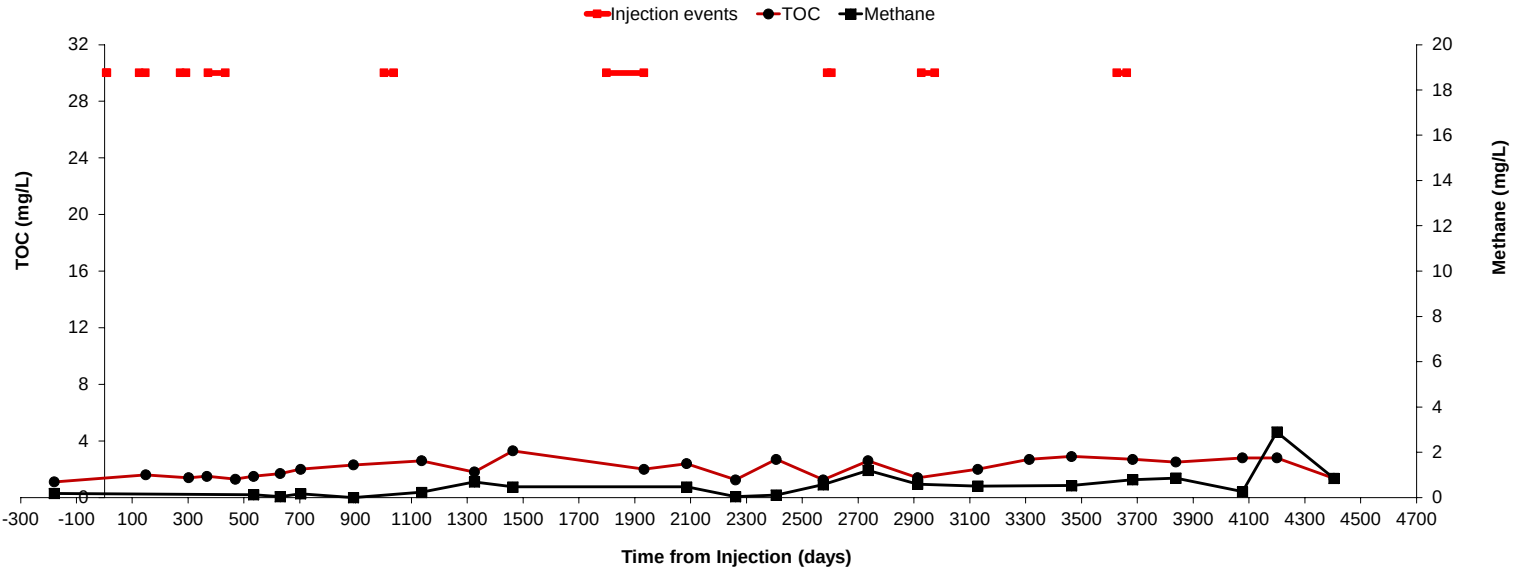
ASHLAND INC.
RENSSELAER NEW YORK
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

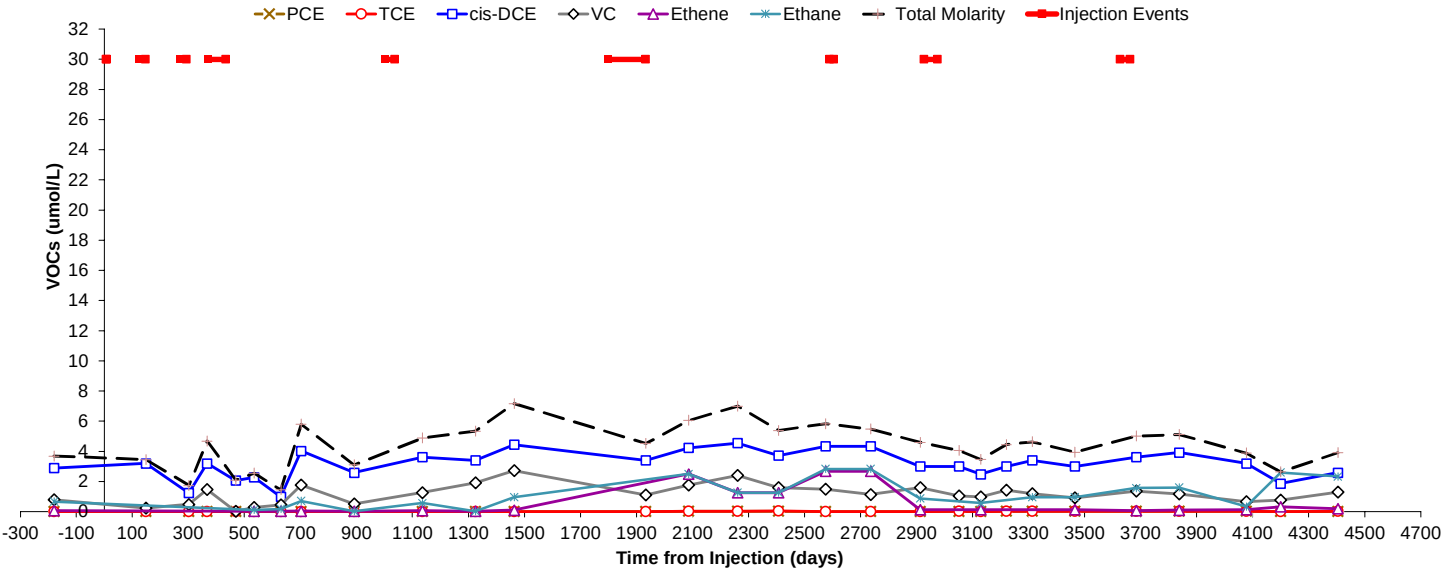
MW-16 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
12





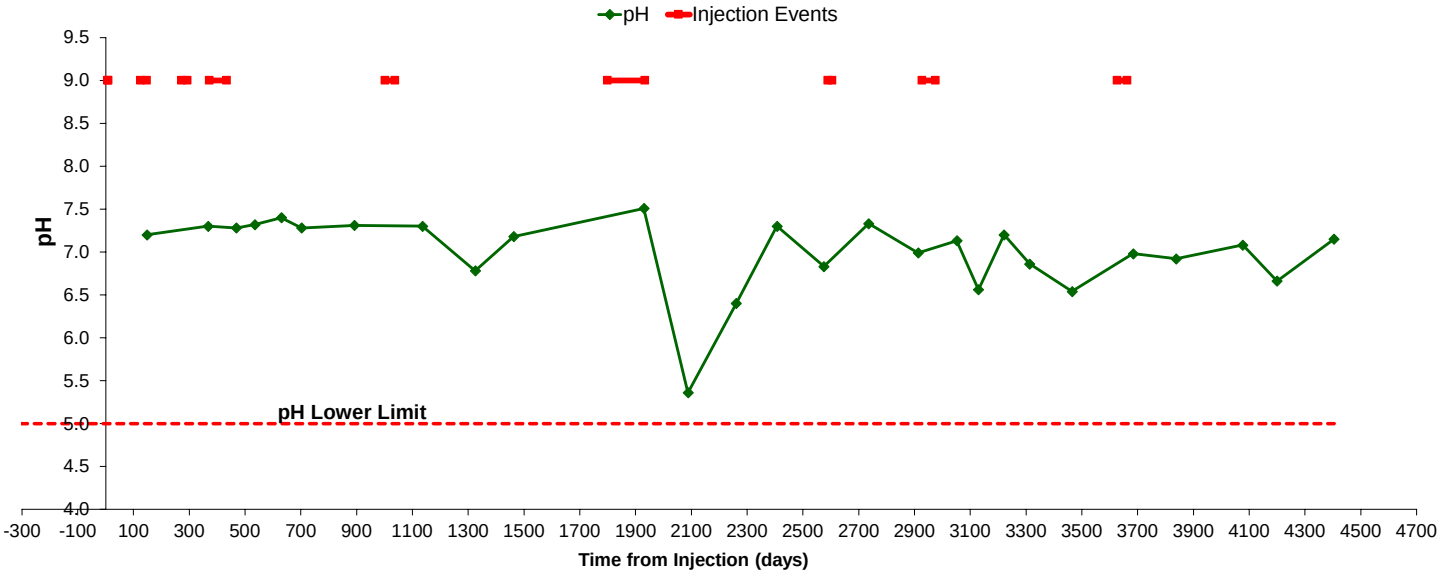


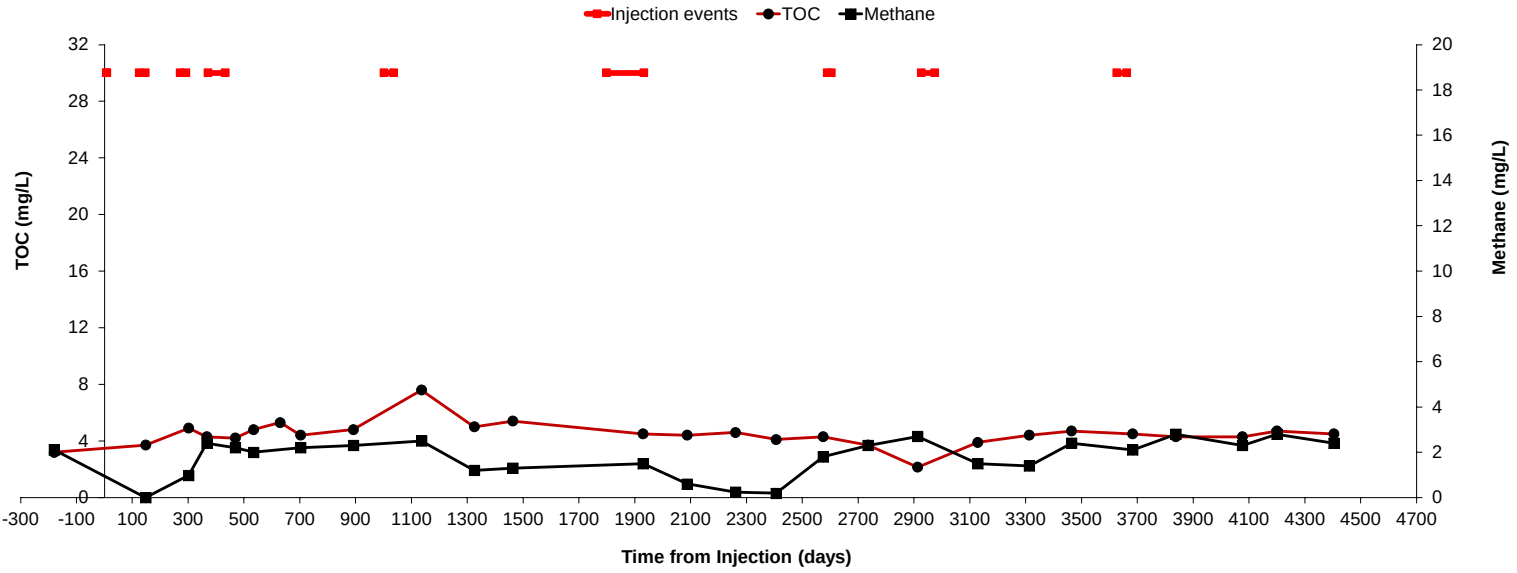
ASHLAND INC.
RENSSELAER NEW YORK
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

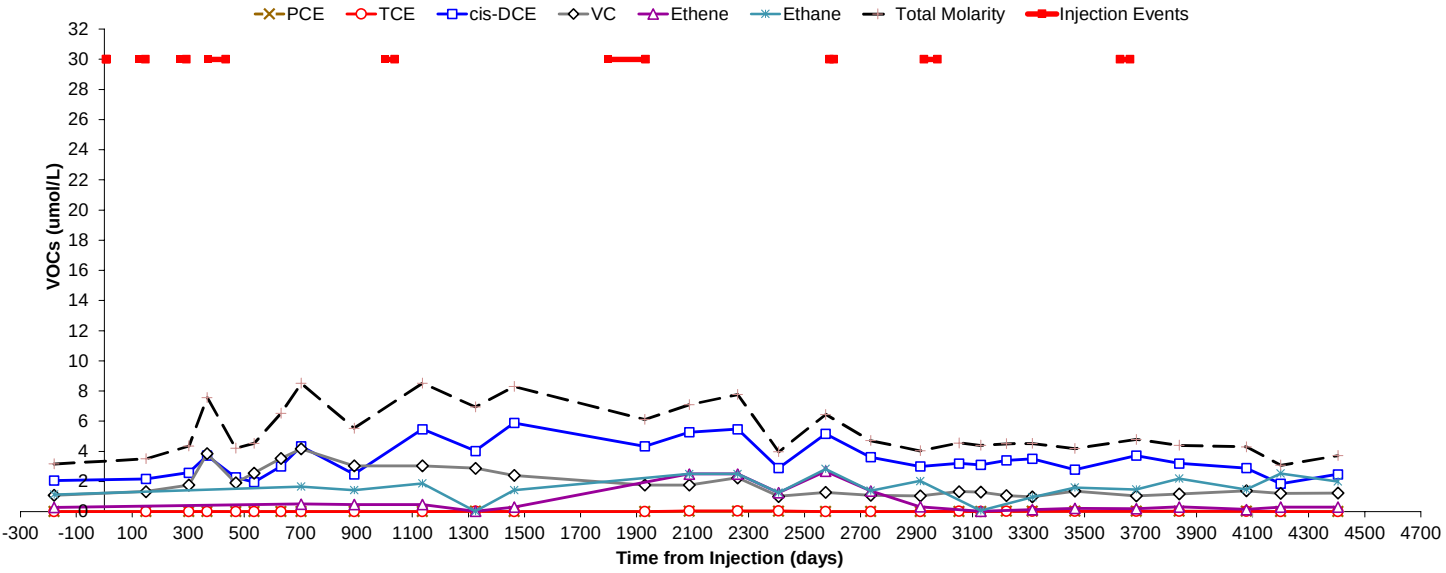
MW-18 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
13







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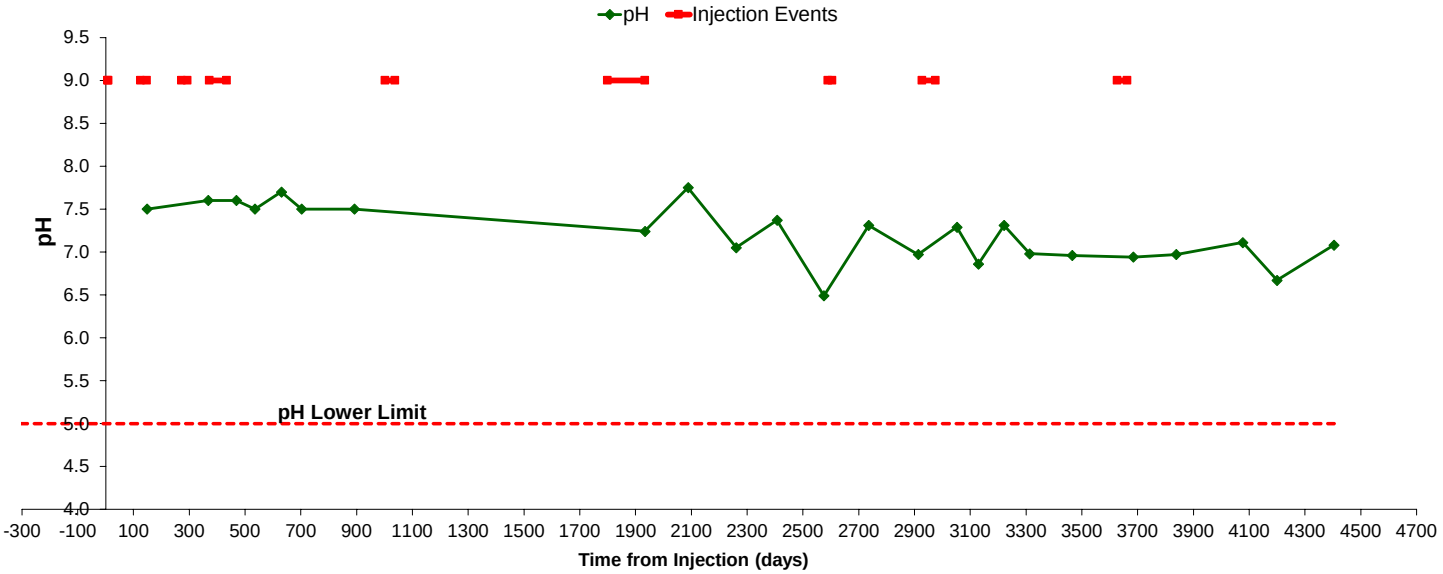
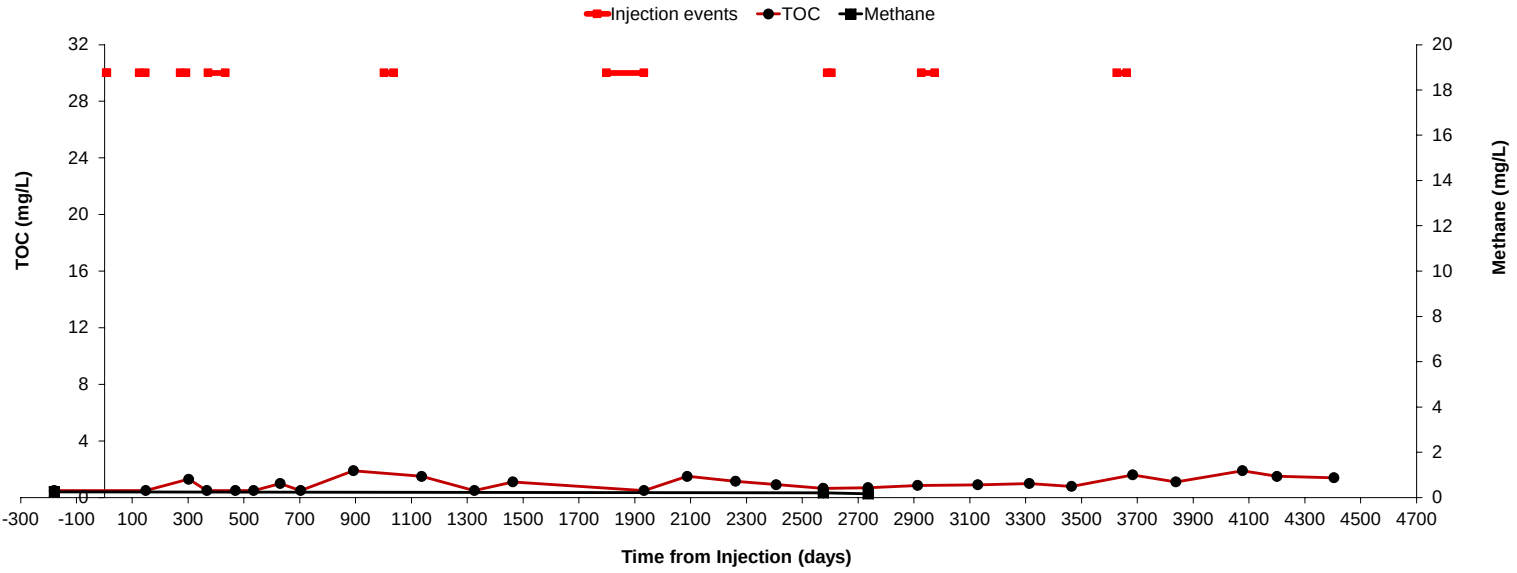
2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

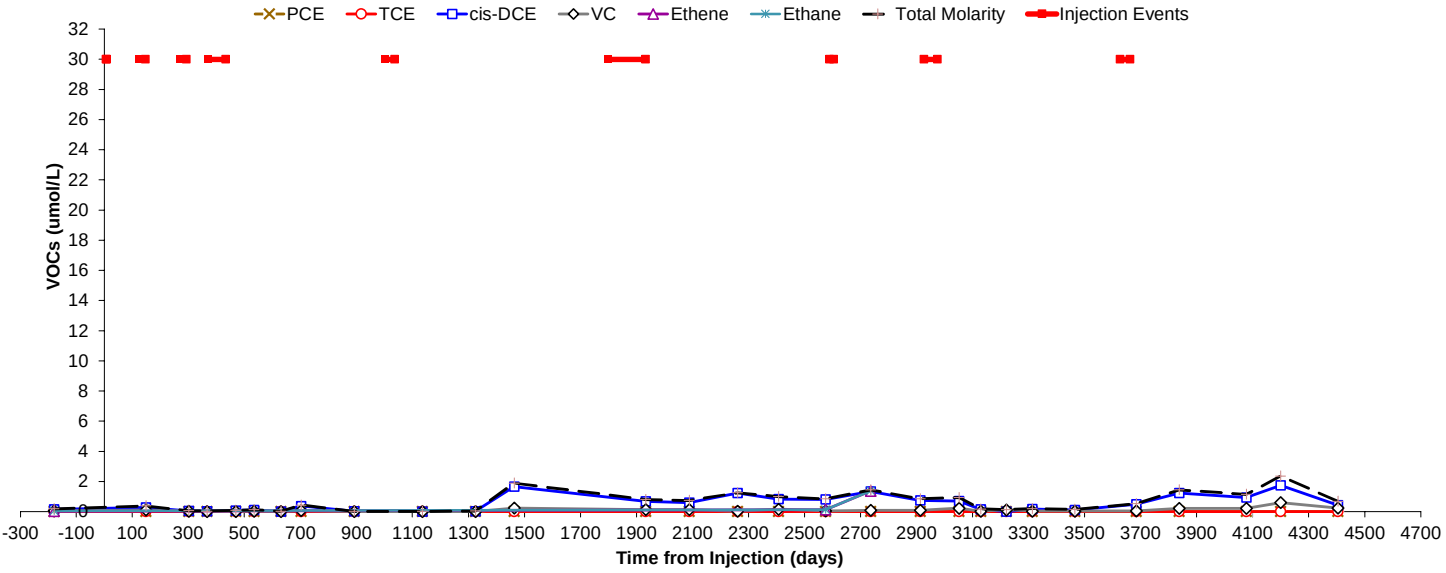
IP-1 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
14







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2022 CORRECTIVE MEASURE IMPLEMENTATION ANNUAL REPORT

IMP-3 PERFORMANCE MONITORING RESULTS

ARCADIS

FIGURE
15

Appendix A

Data Usability Summary Reports

DATA VALIDATION CHECKLIST **Ashland Rensselaer**

Sample Team:	ARCADIS
Sample Matrix:	Water
Lab Project Manager:	David Fuller
SDG Numbers:	680-214074-1
Analyses:	VOCs – 8260D, Dissolved gases – RSK 175 and TOC -9060A
QA Reporting Level:	ARCADIS, Level II
ARCADIS Project Manager:	Bill Golla

ARCADIS U.S., Inc.
855 Route 146 Suite 210,
Clifton Park NY 12065
Tel. 614-985-9138

Environmental
Project: Ashland
Project Number: 30110230. 402

Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005 November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999, as appropriate).

The data verification was performed at a Level II and included review of data package completeness, Laboratory Control Sample and Laboratory Control Sample Duplicate recoveries, Method Blanks, Field Blanks, Trip Blanks, Matrix Spike and Matrix Spike Duplicate recoveries, Field Duplicates, Laboratory Duplicate results, and Holding Time compliance. Laboratory calculations were not verified. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The following samples were included in this data validation:

SDG	Sample ID	Lab ID	Sample Date	Parent Sample
680-214074-1	MW-13-041222	680-214074-1	04/12/22	
	IMP-3-041222	680-214074-2	04/12/22	
	IP-1-041222	680-214074-3	04/12/22	
	DUP-1-041222	680-214074-4	04/12/22	IP-1-041222
	MW-19-041222	680-214074-5	04/12/22	
	MW-18-041222	680-214074-6	04/12/22	
	MW-16-041222	680-214074-7	04/12/22	
	MW-A1-041222	680-214074-8	04/12/22	
	MW-21-041222	680-214074-9	04/12/22	
	IW-A2-041222	680-214074-10	04/12/22	
	MW-17-041222	680-214074-11	04/12/22	
	MW-20-041222	680-214074-12	04/12/22	
	FB-1-041222	680-214074-13	04/12/22	
	TRIP BLANK	680-214074-14	04/12/22	
	MW-25-041222	680-214074-15	04/12/22	
	MW-24-041322	680-214074-16	04/13/22	
	MW-23-041322	680-214074-17	04/13/22	
	MW-B1-041322	680-214074-18	04/13/22	
	FB-2-041322	680-214074-19	04/13/22	
	IW-B3-041322	680-214074-20	04/13/22	

I. GENERAL INFORMATION

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Chain of Custody		X	X		X		
2. Sampling dates and times		X		X		X	
3. Sample type on COC		X	X		X		
4. Field QC samples		X	X		X		
5. Case Narrative		X	X		X		
6. Laboratory Report Checklist		X	X		X		
7. Laboratory Exception Reports		X	X		X		
8. Sample Receipt Condition		X	X		X		

COMMENTS: Performance was acceptable, with the following exceptions and notes.
"Exceptions Noted" = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
"General Comments Noted" = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative.

The analytical report was complete with exceptions or notations.

Sampling date was mismatching with COC:

Sample ID on sample Summary	sample ID on COC
MW-24-041222	MW-24-041322
MW-23-041222	MW-23-041322
MW-B1-041222	MW-B1-041322
IW-B3-041222	IW-B3-041322

Note: The samples MW-24-041322 collection dates did not match between chain-of-custody (COC) and sample result pages. The sample result pages list as 04/12/22 while the COC list as 04/13/22. The collection date per COC was considered and corrected in this review report.

II. VOLATILE ORGANIC COMPOUNDS (VOCs - SW8260C)

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Holding times		X	X		X		
2.Sample receipt condition		X		X		X	
3. Reporting limits		X	X		X		
4. Blanks							
A. Method Blanks		X	X		X		
B. Field Blanks/Equipment Blanks		X	X		X		
C. Trip Blanks		X	X		X		
5. Laboratory control sample (LCS) %R		X		X		X	
6. Laboratory control sample duplicate (LCSD) %R		X		X		X	
7. LCS/LCSD RPD		X	X			X	
8. Matrix spike (MS) %R		X	X			X	
9. MSD %R		X		X		X	
10. MS/MSD RPD		X	X			X	
11. Surrogate Recoveries		X	X			X	
12. Field Duplicate Comparison		X		X		X	

Notes:
%R - percent recovery
RPD - relative percent difference
MSD- Matrix Spike Duplicate
"Exceptions Noted" = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
"General Comments Noted" = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative

COMMENTS: Performance was acceptable, with below exceptions.

2. It is noted in the case narrative that the method requirement for no headspace was not met for the sample IW-A2-041222 (680-214074-10). The compounds in the associated sample were qualified as estimated (J/UJ).

5-7. The LCS / LCSD recovery for compound 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK), methyl acetate and Vinyl chloride was greater than the control limit in analysis batch 717327. However, the compound associated with the sample IP-1-041222 was reported from analytical batch 716848. Hence no other qualification of the data was required.

The LCS/LCSD recovery for the compound Acetone was greater than the control limit in analysis batch 717327. However, the compound Acetone associated with the sample IP-1-041222 was non-detect, hence no other qualification of the data was required.

The LCSD recovery for compound methyl acetate was greater than the control limit in analysis batch 716981. However, the compound methyl acetate associated with the sample was non-detect, hence no other qualification of the data was required.

8-10. The MS/MSD analysis was performed on sample MW-19-041222.The MSD recovery for compound dichlorodifluoromethane, was greater than the control limit. The compound dichlorodifluoromethane, associated samples was non-detect, hence no other qualification of the data was required. The MS/MSD analysis exhibited acceptable RPDs between MS/MSD Recoveries.

11. All surrogate recoveries were within control limits.

12. A field duplicate sample DUP-1-041222 was collected from IP-1-041222.The Compound vinyl chloride associated with the sample location IP-1-041222 / DUP-1-041222 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed compound were qualified as estimated.

Note: The case narrative noted that the CCVs for chloroethane were outside the control limits with a low bias. The associated field samples IP-1-041222, DUP-1-041222, MW-18-041222, MW-16-041222, MW-A1-041222, MW-21-041222, and IW-B3-041222 were qualified as estimated (UJ/J) for this compound.

The case narrative noted that the CCVs for acetone were outside the control limits with a high bias. The associated field sample IP-1-041222 was non-detect for the above-mentioned compound; therefore, qualification of the data was not warranted.

The case narrative noted that the CCVs for bromoform and bromomethane were outside the control limits with a high bias. The associated field samples MW-19-041222, MW-18-041222, MW-16-041222, and MW-A1-041222 were non-detect for the above-mentioned compounds; therefore, qualification of the data was not warranted.

.

III. DISSOLVED GASES (RSK-175)

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Holding times		X	X		X		
2. Reporting limits		X	X		X		
3. Blanks							
A. Method Blanks		X	X		X		
B. Field Blanks/Equipment Blanks		X		X		X	
4. Laboratory control sample (LCS) %R		X	X		X		
5. Laboratory control sample duplicate (LCSD) %R		X	X		X		
6. LCS/LCSD RPD		X	X		X		
7. Matrix spike (MS) %R		X	X			X	
8. MSD %R		X	X			X	
9. MS/MSD RPD		X	X			X	
10. Field/Lab Duplicate Comparison		X		X		X	

Notes:
%R - percent recovery RPD - relative percent difference
MSD- Matrix Spike Duplicate
“Exceptions Noted” = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
“General Comments Noted” = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative

COMMENTS: Performance was acceptable, with below exceptions.

3.B The Compound Methane (4.9 ug/L and 1.3 ug/L) was detected in the FB-1-041222 and FB-2-041322 however, the associated sample results were greater than the BAL. No other qualification of the sample results was required.

7-9. The MS/MSD analysis was performed on sample MW-19-041222, exhibited acceptable recoveries and RPDs.

10. A field duplicate sample DUP-1-041222 was collected from IP-1-041222.The compounds Ethane, Ethene, and Methane (TCD) associated with samples IP-1-041222 and DUP-1-041222 exhibited a field duplicate RPD / results greater than the control limit. The associated sample results were qualified as estimated (J)

IV. General Chemistry – (Total Organic Carbon -9060A)

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Holding times		X	X		X		
2. Reporting limits		X	X		X		
3. Blanks							
A. Method Blanks		X	X		X		
B. Field Blanks/Equipment Blanks		X	X		X		
4. Laboratory control sample (LCS) %R		X	X		X		
5. Laboratory control sample duplicate (LCSD) %R	X						X
6. LCS/LCSD RPD	X						X
7. Matrix spike (MS) %R		X		X		X	
8. MSD %R		X	X			X	
9. MS/MSD RPD		X	X			X	
10. Lab Duplicate RPD		X	X			X	
11. Field/Lab Duplicate Comparison		X	X			X	

Notes:
%R - percent recovery RPD - relative percent difference
MSD- Matrix Spike Duplicate
“Exceptions Noted” = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
“General Comments Noted” = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative

COMMENTS: Performance was acceptable, with below exceptions.

7-9. The MS analysis was performed on sample MW-18-041222. The MS recovery was greater than the control limit for TOC Result 1, TOC Result 2, TOC Result 3 and Total Organic Carbon. The sample results were qualified as estimated J.

The MS/MSD analysis was performed on samples MW-19-041222 and MW-24-041222; The MS/MSD analysis exhibited recoveries and RPDs with in the control limit.

The MS analysis was performed on sample MW-25-041222. The MS recovery was within the control limit.

10. Sample MW-16-041222 was used as the laboratory duplicate, exhibited acceptable RPD.

11. A field duplicate sample DUP-1-041222 was collected from IP-1-041222 and the RPDs were acceptable.

DATA VALIDATION QUALIFICATION SUMMARY

Qualifier Definitions:

J – The compound was positively identified; however, the associated numerical value is an estimated concentration only.
UJ – The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

D - Concentration is based on a diluted sample analysis

Explanation/Notes:

Sample ID	Method	Parameter	Result	Units	Qualifier	Reason
IP-1-041222	8260D	Chloroethane	ND	µg/L	UJ	CCV Low Bias
		Vinyl chloride	76	µg/L	J	Field Duplicate RPD
	RSK-175	Ethane	76	ug/L	J	Field Duplicate RPD
		Ethene	8.4	ug/L	J	Field Duplicate RPD
		Methane (TCD)	2800	ug/L	J	Field Duplicate RPD
DUP-1-041222	8260D	Chloroethane	ND	µg/L	UJ	CCV Low Bias
		Vinyl chloride	48	µg/L	J	Field Duplicate RPD
	RSK-175	Ethane	50	ug/L	J	Field Duplicate RPD
		Ethene	4.1	ug/L	J	Field Duplicate RPD
		Methane (TCD)	1100	ug/L	J	Field Duplicate RPD
MW-19-041222	8260D	Chloroethane	96	µg/L	D	Dilution
		cis-1,2-Dichloroethene	170	µg/L	D	Dilution
		Vinyl chloride	320	µg/L	D	Dilution
	RSK-175	Ethane	1100	µg/L	D	Dilution
		Ethene	1100	µg/L	D	Dilution
MW-18-041222	8260D	Chloroethane	ND	µg/L	UJ	CCV Low Bias
		cis-1,2-Dichloroethene	180	ug/L	D	Dilution
		Vinyl chloride	48	ug/L	D	Dilution
	9060A	TOC Result 1	2.7	mg/L	J	MS/MSD Recovery
		TOC Result 2	2.9	mg/L	J	MS/MSD Recovery
		TOC Result 3	2.8	mg/L	J	MS/MSD Recovery
		Total Organic Carbon	2.8	mg/L	J	MS/MSD Recovery
MW-16-041222	8260D	Chloroethane	ND	µg/L	UJ	CCV Low Bias
MW-A1-041222	8260D	Chloroethane	ND	µg/L	UJ	CCV Low Bias
MW-21-041222	8260D	Chloroethane	ND	µg/L	UJ	CCV Low Bias
IW-A2-041222	8260D	All compounds	UJ/J	µg/L	UJ/J	VOC head space
MW-25-041222	RSK-175	Ethane	1300	µg/L	D	Dilution
IW-B3-041322	8260D	Chloroethane	ND	µg/L	UJ	CCV Low Bias

VALIDATION PERFORMED BY: Vinayak Hegde

SIGNATURE:

DATE: June 10, 2022

PEER REVIEW: Jennifer Singer

DATE: June 15, 2022

Albany #224

244 Albany ATLANTA #224

Chain of Custody Record

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Eurofins

Client Information	Sampler: ESIPE	Lab PM: Fuller David	Carrier Tracking No(s):	COC No: 680-135148-49378 1
Client Contact: Bill Golla	Phone: 518-320-4441	E-Mail: David Fuller@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: ARCADIS U S Inc	PWSID:			Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State Zip: NY 12065	Compliance Project: Δ Yes Δ No			
Phone: 614-985-9138	PO #: PO884663			
Email: bill.golla@arcadis.com	WO #: Task 400			
Project Name: Ashland Rensselaer	Lab Project #: 68016621			
Site:	SSOW#:			

Analysis Requested

Preservation Codes.

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	9060A - TOC	RSK_175 Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note
			Preservation Code				A	A	A		
MW-13-041222	4/12/22	1005	G	W	N	N	X	X		5	
IMP-3-041222		1025			N	N	X	X		5	
IP-1-041222		1115			N	N	X	X	X	8	
DUP-1-041222		1100			PEN ~~N~~	~~N~~ X	X	X	X	8	
MW-19-041222		1200			N	X	X	X	X	24	MS/MSD
MW-18-041222		1220			N	N	X	X	X	8	
MW-16-041222		1315			N	N	X	X		5	
MW-A1-041222		1325			N	N	X	X	X	8	
MW-21-041222		1500			N	N	X	X		5	
IW-A2-041222		1510			N	N	X	X		5	
MW-17-041222		1630			N	N	X	X		5	

680-214074 Chain of Custody

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

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

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

Special Instructions/QC Requirements: DirectBill: Ashland - Ian McCary (PM Ashland)

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time: 4/13/22 1341	Company: ARCADIS	Received by:		Date/Time: 4-13-2022 1341	Company: EETH
Relinquished by:		Date/Time: 4-13-2022 1700	Company	Received by:		Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by:		Date/Time: 4/14 1040	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks: 2.0/1.4

Ver: 01/16/2019

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Albany #224

Chain of Custody Record

244-~~Albany~~ANTA #224

eurofins

Environment Testing America

Client Information	Sampler: ESPE	Lab PM: Fuller David	Carrier Tracking No(s):	COC No: 680-135148-49378 1
Client Contact: Bill Golla	Phone: 518-320-4441	E-Mail: David Fuller@et.eurofinsus com	State of Origin: NY	Page: Page 2 of 2
Company: ARCADIS U S Inc	PWSID:			Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State Zip: NY 12065	Compliance Project: Δ Yes Δ No			
Phone: 614-985-9138	PO #: PO884663			
Email: bill.golla@arcadis com	WO #: Task 400			
Project Name: Ashland Rensselaer	Lab Project #: 68016621			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	9060A TOC	RSK_175 Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note
			Preservation Code				A	A	A		
MW-20-041222	4/12/22	1530	G	W	N	N	X	X		5	
FB-1-041222	4/12/22	1730	G	W	N	N	X	X	X	8	
Trip Blank	4/12/22	—	—	W	N	N	X			2	
MW-25-041222	4/12/22	1755	G	W	N	N	X	X	X	8	
MW-24-041322	4/13/22	0950	G	W	N	N	X	X	X	8	
MW-23-041322	4/13/22	0950	G	W	N	N	X	X	X	8	
MW-B1-041322	4/13/22	1100	G	W	N	N	X	X	X	8	
FB-2-041322	4/13/22	1120	G	W	N	N	X	X	X	8	
IW-BB-041322	4/13/22	1100	G	W	N	N	X	X		5	

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

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

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

Special Instructions/QC Requirements: Direct Bill: Ashland- Ian McCay (PM Ashland)

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/13/22 1321	ARCADIS		4-13-2022 1321	EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4-13-2022 1700	EETA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/14 1040	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
		20/1.4

Ver: 01/16/2019

5/30/2022 (Rev. 1)

Client Sample ID: MW-13-041222
Date Collected: 04/12/22 10:05
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 05:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 05:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 05:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 05:00	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:00	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 05:00	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 05:00	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 05:00	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:00	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 05:00	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 05:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:00	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 05:00	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 05:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 05:00	1
Acetone	10	U	10	3.7	ug/L			04/22/22 05:00	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 05:00	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 05:00	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 05:00	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 05:00	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 05:00	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 05:00	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 05:00	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 05:00	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 05:00	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 05:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			04/22/22 05:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 05:00	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 05:00	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 05:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 05:00	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 05:00	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 05:00	1
Methyl acetate	5.0	U **	5.0	3.2	ug/L			04/22/22 05:00	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 05:00	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 05:00	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 05:00	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 05:00	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 05:00	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 05:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 05:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 05:00	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 05:00	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:00	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			04/22/22 05:00	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 05:00	1

Client Sample ID: MW-13-041222

Lab Sample ID: 680-214074-1

Date Collected: 04/12/22 10:05

Matrix: Water

Date Received: 04/14/22 10:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*04/22/22 05:00*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/22/22 05:00*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/22/22 05:00*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/22/22 05:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.43	mg/L			04/22/22 18:51	1
TOC Result 2	1.0	U	1.0	0.43	mg/L			04/22/22 18:51	1
TOC Result 3	1.0	U	1.0	0.43	mg/L			04/22/22 18:51	1
TOC Result 4	1.0	U	1.0	0.43	mg/L			04/22/22 18:51	1
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			04/22/22 18:51	1

Client Sample ID: IMP-3-041222

Lab Sample ID: 680-214074-2

Date Collected: 04/12/22 10:25

Matrix: Water

Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 05:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 05:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 05:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 05:22	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:22	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 05:22	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 05:22	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 05:22	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:22	1
1,2-Dichloroethane	**17**		1.0	0.25	ug/L			04/22/22 05:22	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 05:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:22	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 05:22	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 05:22	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 05:22	1
Acetone	10	U	10	3.7	ug/L			04/22/22 05:22	1
Benzene	**0.35**	**J**	1.0	0.27	ug/L			04/22/22 05:22	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 05:22	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 05:22	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 05:22	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 05:22	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 05:22	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 05:22	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 05:22	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 05:22	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 05:22	1
cis-1,2-Dichloroethene	**170**		1.0	0.25	ug/L			04/22/22 05:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 05:22	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 05:22	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 05:22	1

Client Sample ID: IMP-3-041222

Date Collected: 04/12/22 10:25
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 05:22	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 05:22	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 05:22	1
Methyl acetate	5.0	U **	5.0	3.2	ug/L			04/22/22 05:22	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 05:22	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 05:22	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 05:22	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 05:22	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 05:22	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 05:22	1
trans-1,2-Dichloroethene	**2.5**		1.0	0.34	ug/L			04/22/22 05:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 05:22	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 05:22	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:22	1
Vinyl chloride	**38**		1.0	0.40	ug/L			04/22/22 05:22	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*04/22/22 05:22*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*04/22/22 05:22*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 05:22*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/22/22 05:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**1.3**		1.0	0.43	mg/L			04/22/22 20:48	1
TOC Result 2	**1.6**		1.0	0.43	mg/L			04/22/22 20:48	1
TOC Result 3	**1.8**		1.0	0.43	mg/L			04/22/22 20:48	1
TOC Result 4	**1.3**		1.0	0.43	mg/L			04/22/22 20:48	1
Total Organic Carbon	**1.5**		1.0	0.43	mg/L			04/22/22 20:48	1

Client Sample ID: IP-1-041222

Date Collected: 04/12/22 11:15
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/21/22 17:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/21/22 17:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/21/22 17:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/21/22 17:33	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/21/22 17:33	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/21/22 17:33	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/21/22 17:33	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/21/22 17:33	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/21/22 17:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 17:33	1
1,2-Dichloroethane	**0.34**	**J**	1.0	0.25	ug/L			04/21/22 17:33	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/21/22 17:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 17:33	1

Client Sample ID: IP-1-041222
Date Collected: 04/12/22 11:15
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 17:33	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/21/22 17:33	1
2-Hexanone	10	U	10	3.2	ug/L			04/21/22 17:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/21/22 17:33	1
Acetone	10	U	10	3.7	ug/L			04/23/22 21:25	1
Benzene	**0.95**	**J**	1.0	0.27	ug/L			04/21/22 17:33	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/21/22 17:33	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/21/22 17:33	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/21/22 17:33	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/21/22 17:33	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/21/22 17:33	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/21/22 17:33	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/21/22 17:33	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/21/22 17:33	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/21/22 17:33	1
cis-1,2-Dichloroethene	**180**		1.0	0.25	ug/L			04/21/22 17:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/21/22 17:33	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/21/22 17:33	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/21/22 17:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/21/22 17:33	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/21/22 17:33	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/21/22 17:33	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/21/22 17:33	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/21/22 17:33	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/21/22 17:33	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/21/22 17:33	1
Styrene	1.0	U	1.0	0.27	ug/L			04/21/22 17:33	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/21/22 17:33	1
Toluene	1.0	U	1.0	0.25	ug/L			04/21/22 17:33	1
trans-1,2-Dichloroethene	**1.8**		1.0	0.34	ug/L			04/21/22 17:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/21/22 17:33	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/21/22 17:33	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/21/22 17:33	1
Vinyl chloride	**76**	J	1.0	0.40	ug/L			04/21/22 17:33	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/21/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*04/21/22 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*04/23/22 21:25*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*04/21/22 17:33*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*04/23/22 21:25*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/21/22 17:33*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/23/22 21:25*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/21/22 17:33*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*04/23/22 21:25*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**76**	J	1.1	0.30	ug/L			04/18/22 13:34	1
Ethene	**8.4**	J	1.0	0.31	ug/L			04/18/22 13:34	1

Client Sample ID: IP-1-041222

Lab Sample ID: 680-214074-3

Date Collected: 04/12/22 11:15
Matrix: Water
Date Received: 04/14/22 10:40

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	2800	J	390	59	ug/L			04/18/22 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	4.5		1.0	0.43	mg/L			04/22/22 21:17	1
TOC Result 2	4.7		1.0	0.43	mg/L			04/22/22 21:17	1
TOC Result 3	4.7		1.0	0.43	mg/L			04/22/22 21:17	1
TOC Result 4	4.7		1.0	0.43	mg/L			04/22/22 21:17	1
Total Organic Carbon	4.7		1.0	0.43	mg/L			04/22/22 21:17	1

Client Sample ID: DUP-1-041222

Lab Sample ID: 680-214074-4

Date Collected: 04/12/22 11:00
Matrix: Water
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.1	ug/L			04/21/22 21:39	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	2.0	ug/L			04/21/22 21:39	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.2	ug/L			04/21/22 21:39	5
1,1,2-Trichloroethane	5.0	U	5.0	1.6	ug/L			04/21/22 21:39	5
1,1-Dichloroethane	5.0	U	5.0	1.7	ug/L			04/21/22 21:39	5
1,1-Dichloroethene	5.0	U	5.0	1.7	ug/L			04/21/22 21:39	5
1,2,4-Trichlorobenzene	25	U	25	2.7	ug/L			04/21/22 21:39	5
1,2-Dibromo-3-Chloropropane	25	U	25	9.0	ug/L			04/21/22 21:39	5
1,2-Dibromoethane	5.0	U	5.0	1.7	ug/L			04/21/22 21:39	5
1,2-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/21/22 21:39	5
1,2-Dichloroethane	5.0	U	5.0	1.3	ug/L			04/21/22 21:39	5
1,2-Dichloropropane	5.0	U	5.0	1.1	ug/L			04/21/22 21:39	5
1,3-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/21/22 21:39	5
1,4-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/21/22 21:39	5
2-Butanone (MEK)	50	U	50	32	ug/L			04/21/22 21:39	5
2-Hexanone	50	U	50	16	ug/L			04/21/22 21:39	5
4-Methyl-2-pentanone (MIBK)	50	U	50	14	ug/L			04/21/22 21:39	5
Acetone	50	U	50	19	ug/L			04/21/22 21:39	5
Benzene	2.0	J	5.0	1.4	ug/L			04/21/22 21:39	5
Bromodichloromethane	5.0	U	5.0	1.3	ug/L			04/21/22 21:39	5
Bromoform	5.0	U	5.0	3.0	ug/L			04/21/22 21:39	5
Bromomethane	25	U	25	19	ug/L			04/21/22 21:39	5
Carbon disulfide	10	U	10	2.2	ug/L			04/21/22 21:39	5
Carbon tetrachloride	5.0	U	5.0	1.5	ug/L			04/21/22 21:39	5
Chlorobenzene	5.0	U	5.0	0.75	ug/L			04/21/22 21:39	5
Chloroethane	25	U UJ	25	23	ug/L			04/21/22 21:39	5
Chloroform	5.0	U	5.0	1.4	ug/L			04/21/22 21:39	5
Chloromethane	5.0	U	5.0	2.7	ug/L			04/21/22 21:39	5
cis-1,2-Dichloroethene	150		5.0	1.3	ug/L			04/21/22 21:39	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.3	ug/L			04/21/22 21:39	5
Cyclohexane	5.0	U	5.0	1.4	ug/L			04/21/22 21:39	5
Dibromochloromethane	5.0	U	5.0	2.0	ug/L			04/21/22 21:39	5
Dichlorodifluoromethane	5.0	U	5.0	1.8	ug/L			04/21/22 21:39	5
Ethylbenzene	5.0	U	5.0	1.0	ug/L			04/21/22 21:39	5

Client Sample ID: DUP-1-041222

Lab Sample ID: 680-214074-4

Date Collected: 04/12/22 11:00
Date Received: 04/14/22 10:40

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	5.0	U	5.0	1.3	ug/L			04/21/22 21:39	5
Methyl acetate	25	U	25	16	ug/L			04/21/22 21:39	5
Methyl tert-butyl ether	25	U	25	4.1	ug/L			04/21/22 21:39	5
Methylcyclohexane	5.0	U	5.0	1.7	ug/L			04/21/22 21:39	5
Methylene Chloride	25	U	25	16	ug/L			04/21/22 21:39	5
Styrene	5.0	U	5.0	1.4	ug/L			04/21/22 21:39	5
Tetrachloroethene	2.5	U	2.5	1.8	ug/L			04/21/22 21:39	5
Toluene	5.0	U	5.0	1.3	ug/L			04/21/22 21:39	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.7	ug/L			04/21/22 21:39	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.2	ug/L			04/21/22 21:39	5
Trichloroethene	5.0	U	5.0	1.0	ug/L			04/21/22 21:39	5
Trichlorofluoromethane	5.0	U	5.0	1.7	ug/L			04/21/22 21:39	5
Vinyl chloride	**48**	J	5.0	2.0	ug/L			04/21/22 21:39	5
Xylenes, Total	5.0	U	5.0	1.2	ug/L			04/21/22 21:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*04/21/22 21:39*	*5*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*04/21/22 21:39*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/21/22 21:39*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/21/22 21:39*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**50**	J	1.1	0.30	ug/L			04/18/22 13:47	1
Ethene	**4.1**	J	1.0	0.31	ug/L			04/18/22 13:47	1
Methane (TCD)	**1100**	J	390	59	ug/L			04/18/22 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**4.5**		1.0	0.43	mg/L			04/22/22 21:46	1
TOC Result 2	**4.6**		1.0	0.43	mg/L			04/22/22 21:46	1
TOC Result 3	**4.6**		1.0	0.43	mg/L			04/22/22 21:46	1
TOC Result 4	**4.7**		1.0	0.43	mg/L			04/22/22 21:46	1
Total Organic Carbon	**4.6**		1.0	0.43	mg/L			04/22/22 21:46	1

Client Sample ID: MW-19-041222

Lab Sample ID: 680-214074-5

Date Collected: 04/12/22 12:00
Date Received: 04/14/22 10:40

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/21/22 17:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/21/22 17:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**7.7**		1.0	0.23	ug/L			04/21/22 17:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/21/22 17:55	1
1,1-Dichloroethane	**27**		1.0	0.33	ug/L			04/21/22 17:55	1
1,1-Dichloroethene	**0.88**	J	1.0	0.33	ug/L			04/21/22 17:55	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/21/22 17:55	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/21/22 17:55	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/21/22 17:55	1

Client Sample ID: MW-19-041222

Date Collected: 04/12/22 12:00
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-5

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 17:55	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/21/22 17:55	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/21/22 17:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 17:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 17:55	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/21/22 17:55	1
2-Hexanone	10	U	10	3.2	ug/L			04/21/22 17:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/21/22 17:55	1
Acetone	10	U	10	3.7	ug/L			04/21/22 17:55	1
Benzene	**7.1**		1.0	0.27	ug/L			04/21/22 17:55	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/21/22 17:55	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/21/22 17:55	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/21/22 17:55	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/21/22 17:55	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/21/22 17:55	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/21/22 17:55	1
Chloroform	**2.3**		1.0	0.27	ug/L			04/21/22 17:55	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/21/22 17:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/21/22 17:55	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/21/22 17:55	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/21/22 17:55	1
Dichlorodifluoromethane	1.0	U F1	1.0	0.36	ug/L			04/21/22 17:55	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/21/22 17:55	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/21/22 17:55	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/21/22 17:55	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/21/22 17:55	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/21/22 17:55	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/21/22 17:55	1
Styrene	1.0	U	1.0	0.27	ug/L			04/21/22 17:55	1
Tetrachloroethene	**1.4**		0.50	0.35	ug/L			04/21/22 17:55	1
Toluene	**1.1**		1.0	0.25	ug/L			04/21/22 17:55	1
trans-1,2-Dichloroethene	**4.0**		1.0	0.34	ug/L			04/21/22 17:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/21/22 17:55	1
Trichloroethene	**1.7**		1.0	0.20	ug/L			04/21/22 17:55	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/21/22 17:55	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/21/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*04/21/22 17:55*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*04/21/22 17:55*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/21/22 17:55*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/21/22 17:55*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	**96**	D	50	46	ug/L			04/25/22 19:03	10
cis-1,2-Dichloroethene	**170**	D	10	2.5	ug/L			04/25/22 19:03	10
Vinyl chloride	**320**	D	10	4.0	ug/L			04/25/22 19:03	10

Client Sample ID: MW-19-041222

Lab Sample ID: 680-214074-5

Date Collected: 04/12/22 12:00
Matrix: Water
Date Received: 04/14/22 10:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		60 - 124		04/25/22 19:03	10
4-Bromofluorobenzene (Surr)	89		70 - 130		04/25/22 19:03	10
Dibromofluoromethane (Surr)	103		70 - 130		04/25/22 19:03	10
Toluene-d8 (Surr)	105		70 - 130		04/25/22 19:03	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1100	D	11	3.0	ug/L			04/19/22 12:25	10
Ethene	1100	D	10	3.1	ug/L			04/19/22 12:25	10
Methane (TCD)	13000		390	59	ug/L			04/18/22 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	9.2		1.0	0.43	mg/L			04/22/22 20:18	1
TOC Result 2	9.5		1.0	0.43	mg/L			04/22/22 20:18	1
TOC Result 3	9.4		1.0	0.43	mg/L			04/22/22 20:18	1
TOC Result 4	9.4		1.0	0.43	mg/L			04/22/22 20:18	1
Total Organic Carbon	9.4		1.0	0.43	mg/L			04/22/22 20:18	1

Client Sample ID: MW-18-041222

Lab Sample ID: 680-214074-6

Date Collected: 04/12/22 12:20
Matrix: Water
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/21/22 18:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/21/22 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/21/22 18:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/21/22 18:17	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/21/22 18:17	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/21/22 18:17	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/21/22 18:17	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/21/22 18:17	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/21/22 18:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 18:17	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/21/22 18:17	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/21/22 18:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 18:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 18:17	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/21/22 18:17	1
2-Hexanone	10	U	10	3.2	ug/L			04/21/22 18:17	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/21/22 18:17	1
Acetone	10	U	10	3.7	ug/L			04/21/22 18:17	1
Benzene	0.67	J	1.0	0.27	ug/L			04/21/22 18:17	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/21/22 18:17	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/21/22 18:17	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/21/22 18:17	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/21/22 18:17	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/21/22 18:17	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/21/22 18:17	1
Chloroethane	5.0	U UJ	5.0	4.6	ug/L			04/21/22 18:17	1

Client Sample ID: MW-18-041222

Date Collected: 04/12/22 12:20
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-6

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.27	ug/L			04/21/22 18:17	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/21/22 18:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/21/22 18:17	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/21/22 18:17	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/21/22 18:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/21/22 18:17	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/21/22 18:17	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/21/22 18:17	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/21/22 18:17	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/21/22 18:17	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/21/22 18:17	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/21/22 18:17	1
Styrene	1.0	U	1.0	0.27	ug/L			04/21/22 18:17	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/21/22 18:17	1
Toluene	1.0	U	1.0	0.25	ug/L			04/21/22 18:17	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.34	ug/L			04/21/22 18:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/21/22 18:17	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/21/22 18:17	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/21/22 18:17	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/21/22 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*04/21/22 18:17*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*04/21/22 18:17*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/21/22 18:17*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/21/22 18:17*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**180**	D	5.0	1.3	ug/L			04/25/22 19:48	5
Vinyl chloride	**48**	D	5.0	2.0	ug/L			04/25/22 19:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*04/25/22 19:48*	*5*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*04/25/22 19:48*	*5*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*04/25/22 19:48*	*5*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/25/22 19:48*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**78**		1.1	0.30	ug/L			04/18/22 14:00	1
Ethene	**9.1**		1.0	0.31	ug/L			04/18/22 14:00	1
Methane (TCD)	**2900**		390	59	ug/L			04/18/22 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**2.7**	J	1.0	0.43	mg/L			04/22/22 23:42	1
TOC Result 2	**2.9**	J	1.0	0.43	mg/L			04/22/22 23:42	1
TOC Result 3	**2.8**	J	1.0	0.43	mg/L			04/22/22 23:42	1
TOC Result 4	**2.9**		1.0	0.43	mg/L			04/22/22 23:42	1
Total Organic Carbon	**2.8**	J	1.0	0.43	mg/L			04/22/22 23:42	1

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-214074-1

Client Sample ID: MW-16-041222
Date Collected: 04/12/22 13:15
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-7
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/21/22 18:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/21/22 18:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/21/22 18:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/21/22 18:40	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/21/22 18:40	1
1,1-Dichloroethene	**0.72**	**J**	1.0	0.33	ug/L			04/21/22 18:40	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/21/22 18:40	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/21/22 18:40	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/21/22 18:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 18:40	1
1,2-Dichloroethane	**0.93**	**J**	1.0	0.25	ug/L			04/21/22 18:40	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/21/22 18:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 18:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 18:40	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/21/22 18:40	1
2-Hexanone	10	U	10	3.2	ug/L			04/21/22 18:40	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/21/22 18:40	1
Acetone	10	U	10	3.7	ug/L			04/21/22 18:40	1
Benzene	1.0	U	1.0	0.27	ug/L			04/21/22 18:40	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/21/22 18:40	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/21/22 18:40	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/21/22 18:40	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/21/22 18:40	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/21/22 18:40	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/21/22 18:40	1
Chloroethane	5.0	U UJ	5.0	4.6	ug/L			04/21/22 18:40	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/21/22 18:40	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/21/22 18:40	1
cis-1,2-Dichloroethene	**90**		1.0	0.25	ug/L			04/25/22 13:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/21/22 18:40	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/21/22 18:40	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/21/22 18:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/21/22 18:40	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/21/22 18:40	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/21/22 18:40	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/21/22 18:40	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/21/22 18:40	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/21/22 18:40	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/21/22 18:40	1
Styrene	1.0	U	1.0	0.27	ug/L			04/21/22 18:40	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/21/22 18:40	1
Toluene	1.0	U	1.0	0.25	ug/L			04/21/22 18:40	1
trans-1,2-Dichloroethene	**0.99**	**J**	1.0	0.34	ug/L			04/21/22 18:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/21/22 18:40	1
Trichloroethene	**8.5**		1.0	0.20	ug/L			04/21/22 18:40	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/21/22 18:40	1
Vinyl chloride	**1.7**		1.0	0.40	ug/L			04/25/22 13:27	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/21/22 18:40	1

Client Sample ID: MW-16-041222

Lab Sample ID: 680-214074-7

Date Collected: 04/12/22 13:15
Matrix: Water
Date Received: 04/14/22 10:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*04/21/22 18:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*04/25/22 13:27*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*04/21/22 18:40*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/25/22 13:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/21/22 18:40*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/25/22 13:27*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/21/22 18:40*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/25/22 13:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**1.1**		1.0	0.43	mg/L			04/23/22 00:41	1
TOC Result 2	**1.1**		1.0	0.43	mg/L			04/23/22 00:41	1
TOC Result 3	**1.1**		1.0	0.43	mg/L			04/23/22 00:41	1
TOC Result 4	**1.1**		1.0	0.43	mg/L			04/23/22 00:41	1
Total Organic Carbon	**1.1**		1.0	0.43	mg/L			04/23/22 00:41	1

Client Sample ID: MW-A1-041222

Lab Sample ID: 680-214074-8

Date Collected: 04/12/22 13:25
Matrix: Water
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/21/22 19:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/21/22 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/21/22 19:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/21/22 19:03	1
1,1-Dichloroethane	**1.0**		1.0	0.33	ug/L			04/21/22 19:03	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/21/22 19:03	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/21/22 19:03	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/21/22 19:03	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:03	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/21/22 19:03	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/21/22 19:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:03	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/21/22 19:03	1
2-Hexanone	10	U	10	3.2	ug/L			04/21/22 19:03	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/21/22 19:03	1
Acetone	10	U	10	3.7	ug/L			04/21/22 19:03	1
Benzene	**1.9**		1.0	0.27	ug/L			04/21/22 19:03	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/21/22 19:03	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/21/22 19:03	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/21/22 19:03	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/21/22 19:03	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/21/22 19:03	1
Chlorobenzene	**1.4**		1.0	0.15	ug/L			04/21/22 19:03	1
Chloroethane	5.0	U UJ	5.0	4.6	ug/L			04/21/22 19:03	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/21/22 19:03	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/21/22 19:03	1

Client Sample ID: MW-A1-041222
Date Collected: 04/12/22 13:25
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-8
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1.2**		1.0	0.25	ug/L			04/25/22 13:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/21/22 19:03	1
Cyclohexane	**0.41**	**J**	1.0	0.28	ug/L			04/21/22 19:03	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/21/22 19:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/21/22 19:03	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/21/22 19:03	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/21/22 19:03	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/21/22 19:03	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/21/22 19:03	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/21/22 19:03	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/21/22 19:03	1
Styrene	1.0	U	1.0	0.27	ug/L			04/21/22 19:03	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/21/22 19:03	1
Toluene	1.0	U	1.0	0.25	ug/L			04/21/22 19:03	1
trans-1,2-Dichloroethene	**0.45**	**J**	1.0	0.34	ug/L			04/21/22 19:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/21/22 19:03	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/21/22 19:03	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:03	1
Vinyl chloride	**3.7**		1.0	0.40	ug/L			04/21/22 19:03	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/21/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*04/21/22 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*04/25/22 13:49*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*04/21/22 19:03*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/25/22 13:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/21/22 19:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/25/22 13:49*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/21/22 19:03*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*04/25/22 13:49*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**350**		1.1	0.30	ug/L			04/18/22 15:31	1
Ethene	**16**		1.0	0.31	ug/L			04/18/22 15:31	1
Methane (TCD)	**20000**		390	59	ug/L			04/18/22 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**17**		1.0	0.43	mg/L			04/23/22 01:10	1
TOC Result 2	**17**		1.0	0.43	mg/L			04/23/22 01:10	1
TOC Result 3	**17**		1.0	0.43	mg/L			04/23/22 01:10	1
TOC Result 4	**17**		1.0	0.43	mg/L			04/23/22 01:10	1
Total Organic Carbon	**17**		1.0	0.43	mg/L			04/23/22 01:10	1

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-214074-1

Client Sample ID: MW-21-041222
Date Collected: 04/12/22 15:00
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-9
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/21/22 19:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/21/22 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/21/22 19:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/21/22 19:25	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:25	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/21/22 19:25	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/21/22 19:25	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/21/22 19:25	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:25	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/21/22 19:25	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/21/22 19:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:25	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/21/22 19:25	1
2-Hexanone	10	U	10	3.2	ug/L			04/21/22 19:25	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/21/22 19:25	1
Acetone	10	U	10	3.7	ug/L			04/21/22 19:25	1
Benzene	1.0	U	1.0	0.27	ug/L			04/21/22 19:25	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/21/22 19:25	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/21/22 19:25	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/21/22 19:25	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/21/22 19:25	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/21/22 19:25	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/21/22 19:25	1
Chloroethane	5.0	U UJ	5.0	4.6	ug/L			04/21/22 19:25	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/21/22 19:25	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/21/22 19:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			04/21/22 19:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/21/22 19:25	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/21/22 19:25	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/21/22 19:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/21/22 19:25	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/21/22 19:25	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/21/22 19:25	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/21/22 19:25	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/21/22 19:25	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/21/22 19:25	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/21/22 19:25	1
Styrene	1.0	U	1.0	0.27	ug/L			04/21/22 19:25	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/21/22 19:25	1
Toluene	1.0	U	1.0	0.25	ug/L			04/21/22 19:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/21/22 19:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/21/22 19:25	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/21/22 19:25	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:25	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			04/21/22 19:25	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/21/22 19:25	1

Client Sample ID: MW-21-041222

Lab Sample ID: 680-214074-9

Date Collected: 04/12/22 15:00
Matrix: Water
Date Received: 04/14/22 10:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*04/21/22 19:25*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*04/21/22 19:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/21/22 19:25*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/21/22 19:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**5.1**		1.0	0.43	mg/L			04/23/22 01:39	1
TOC Result 2	**5.1**		1.0	0.43	mg/L			04/23/22 01:39	1
TOC Result 3	**5.1**		1.0	0.43	mg/L			04/23/22 01:39	1
TOC Result 4	**5.3**		1.0	0.43	mg/L			04/23/22 01:39	1
Total Organic Carbon	**5.2**		1.0	0.43	mg/L			04/23/22 01:39	1

Client Sample ID: IW-A2-041222

Lab Sample ID: 680-214074-10

Date Collected: 04/12/22 15:10
Matrix: Water
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U UJ	5.0	1.1	ug/L			04/22/22 10:32	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	2.0	ug/L			04/22/22 10:32	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.2	ug/L			04/22/22 10:32	5
1,1,2-Trichloroethane	5.0	U	5.0	1.6	ug/L			04/22/22 10:32	5
1,1-Dichloroethane	5.0	U	5.0	1.7	ug/L			04/22/22 10:32	5
1,1-Dichloroethene	5.0	U	5.0	1.7	ug/L			04/22/22 10:32	5
1,2,4-Trichlorobenzene	25	U	25	2.7	ug/L			04/22/22 10:32	5
1,2-Dibromo-3-Chloropropane	25	U	25	9.0	ug/L			04/22/22 10:32	5
1,2-Dibromoethane	5.0	U	5.0	1.7	ug/L			04/22/22 10:32	5
1,2-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/22/22 10:32	5
1,2-Dichloroethane	5.0	U	5.0	1.3	ug/L			04/22/22 10:32	5
1,2-Dichloropropane	5.0	U	5.0	1.1	ug/L			04/22/22 10:32	5
1,3-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/22/22 10:32	5
1,4-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/22/22 10:32	5
2-Butanone (MEK)	50	U	50	32	ug/L			04/22/22 10:32	5
2-Hexanone	50	U	50	16	ug/L			04/22/22 10:32	5
4-Methyl-2-pentanone (MIBK)	50	U	50	14	ug/L			04/22/22 10:32	5
Acetone	50	U	50	19	ug/L			04/22/22 10:32	5
Benzene	**7.9**	J	5.0	1.4	ug/L			04/22/22 10:32	5
Bromodichloromethane	5.0	U UJ	5.0	1.3	ug/L			04/22/22 10:32	5
Bromoform	5.0	U	5.0	3.0	ug/L			04/22/22 10:32	5
Bromomethane	25	U	25	19	ug/L			04/22/22 10:32	5
Carbon disulfide	10	U	10	2.2	ug/L			04/22/22 10:32	5
Carbon tetrachloride	5.0	U	5.0	1.5	ug/L			04/22/22 10:32	5
Chlorobenzene	5.0	U	5.0	0.75	ug/L			04/22/22 10:32	5
Chloroethane	25	U	25	23	ug/L			04/22/22 10:32	5
Chloroform	5.0	U	5.0	1.4	ug/L			04/22/22 10:32	5
Chloromethane	5.0	U	5.0	2.7	ug/L			04/22/22 10:32	5
cis-1,2-Dichloroethene	5.0	U	5.0	1.3	ug/L			04/22/22 10:32	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.3	ug/L			04/22/22 10:32	5
Cyclohexane	5.0	U	5.0	1.4	ug/L			04/22/22 10:32	5
Dibromochloromethane	5.0	U	5.0	2.0	ug/L			04/22/22 10:32	5

Client Sample ID: IW-A2-041222

Date Collected: 04/12/22 15:10
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-10
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U UJ	5.0	1.8	ug/L			04/22/22 10:32	5
Ethylbenzene	5.0	U UJ	5.0	1.0	ug/L			04/22/22 10:32	5
Isopropylbenzene	**4.2**	**J**	5.0	1.3	ug/L			04/22/22 10:32	5
Methyl acetate	25	U *+ UJ	25	16	ug/L			04/22/22 10:32	5
Methyl tert-butyl ether	25	U	25	4.1	ug/L			04/22/22 10:32	5
Methylcyclohexane	5.0	U	5.0	1.7	ug/L			04/22/22 10:32	5
Methylene Chloride	25	U	25	16	ug/L			04/22/22 10:32	5
Styrene	5.0	U	5.0	1.4	ug/L			04/22/22 10:32	5
Tetrachloroethene	2.5	U	2.5	1.8	ug/L			04/22/22 10:32	5
Toluene	5.0	U	5.0	1.3	ug/L			04/22/22 10:32	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.7	ug/L			04/22/22 10:32	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.2	ug/L			04/22/22 10:32	5
Trichloroethene	5.0	U	5.0	1.0	ug/L			04/22/22 10:32	5
Trichlorofluoromethane	5.0	U	5.0	1.7	ug/L			04/22/22 10:32	5
Vinyl chloride	5.0	U	5.0	2.0	ug/L			04/22/22 10:32	5
Xylenes, Total	**16**	J	5.0	1.2	ug/L			04/22/22 10:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*04/22/22 10:32*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/22/22 10:32*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/22/22 10:32*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/22/22 10:32*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**66**		1.0	0.43	mg/L			04/23/22 02:08	1
TOC Result 2	**65**		1.0	0.43	mg/L			04/23/22 02:08	1
TOC Result 3	**66**		1.0	0.43	mg/L			04/23/22 02:08	1
TOC Result 4	**65**		1.0	0.43	mg/L			04/23/22 02:08	1
Total Organic Carbon	**66**		1.0	0.43	mg/L			04/23/22 02:08	1

Client Sample ID: MW-17-041222

Date Collected: 04/12/22 16:30
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-11
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 05:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 05:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 05:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 05:44	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:44	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 05:44	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 05:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 05:44	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:44	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 05:44	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 05:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:44	1

Client Sample ID: MW-17-041222
Date Collected: 04/12/22 16:30
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-11
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 05:44	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 05:44	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 05:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 05:44	1
Acetone	10	U	10	3.7	ug/L			04/22/22 05:44	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 05:44	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 05:44	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 05:44	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 05:44	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 05:44	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 05:44	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 05:44	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 05:44	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 05:44	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 05:44	1
cis-1,2-Dichloroethene	**0.25**	**J**	1.0	0.25	ug/L			04/22/22 05:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 05:44	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 05:44	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 05:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 05:44	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 05:44	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 05:44	1
Methyl acetate	5.0	U *+	5.0	3.2	ug/L			04/22/22 05:44	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 05:44	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 05:44	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 05:44	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 05:44	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 05:44	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 05:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 05:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 05:44	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 05:44	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 05:44	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			04/22/22 05:44	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 05:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*04/22/22 05:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*04/22/22 05:44*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/22/22 05:44*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/22/22 05:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**4.0**		1.0	0.43	mg/L			04/23/22 02:38	1
TOC Result 2	**4.1**		1.0	0.43	mg/L			04/23/22 02:38	1
TOC Result 3	**3.9**		1.0	0.43	mg/L			04/23/22 02:38	1
TOC Result 4	**3.7**		1.0	0.43	mg/L			04/23/22 02:38	1
Total Organic Carbon	**3.9**		1.0	0.43	mg/L			04/23/22 02:38	1

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-214074-1

Client Sample ID: MW-20-041222

Date Collected: 04/12/22 15:30
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-12

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 06:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 06:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 06:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 06:06	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:06	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 06:06	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 06:06	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 06:06	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:06	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 06:06	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 06:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:06	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 06:06	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 06:06	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 06:06	1
Acetone	10	U	10	3.7	ug/L			04/22/22 06:06	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 06:06	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 06:06	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 06:06	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 06:06	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 06:06	1
Carbon tetrachloride	**0.95**	**J**	1.0	0.30	ug/L			04/22/22 06:06	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 06:06	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 06:06	1
Chloroform	**1.4**		1.0	0.27	ug/L			04/22/22 06:06	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 06:06	1
cis-1,2-Dichloroethene	**3.0**		1.0	0.25	ug/L			04/22/22 06:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 06:06	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 06:06	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 06:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 06:06	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 06:06	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 06:06	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/22/22 06:06	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 06:06	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 06:06	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 06:06	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 06:06	1
Tetrachloroethene	**48**		0.50	0.35	ug/L			04/22/22 06:06	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 06:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 06:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 06:06	1
Trichloroethene	**5.4**		1.0	0.20	ug/L			04/22/22 06:06	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:06	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			04/22/22 06:06	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 06:06	1

Client Sample ID: MW-20-041222

Date Collected: 04/12/22 15:30
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-12

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*04/22/22 06:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/22/22 06:06*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 06:06*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/22/22 06:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**2.0**		1.0	0.43	mg/L			04/23/22 03:07	1
TOC Result 2	**2.0**		1.0	0.43	mg/L			04/23/22 03:07	1
TOC Result 3	**1.9**		1.0	0.43	mg/L			04/23/22 03:07	1
TOC Result 4	**2.1**		1.0	0.43	mg/L			04/23/22 03:07	1
Total Organic Carbon	**2.0**		1.0	0.43	mg/L			04/23/22 03:07	1

Client Sample ID: FB-1-041222

Date Collected: 04/12/22 17:30
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-13

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 06:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 06:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 06:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 06:28	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:28	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 06:28	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 06:28	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 06:28	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:28	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 06:28	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 06:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:28	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 06:28	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 06:28	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 06:28	1
Acetone	10	U	10	3.7	ug/L			04/22/22 06:28	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 06:28	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 06:28	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 06:28	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 06:28	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 06:28	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 06:28	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 06:28	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 06:28	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 06:28	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 06:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			04/22/22 06:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 06:28	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 06:28	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 06:28	1

Client Sample ID: FB-1-041222

Date Collected: 04/12/22 17:30
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-13
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 06:28	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 06:28	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 06:28	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/22/22 06:28	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 06:28	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 06:28	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 06:28	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 06:28	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 06:28	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 06:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 06:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 06:28	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 06:28	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:28	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			04/22/22 06:28	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*04/22/22 06:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/22/22 06:28*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/22/22 06:28*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/22/22 06:28*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.1	U	1.1	0.30	ug/L			04/18/22 15:44	1
Ethene	1.0	U	1.0	0.31	ug/L			04/18/22 15:44	1
Methane	**4.9**		0.58	0.57	ug/L			04/18/22 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.43	mg/L			04/23/22 03:35	1
TOC Result 2	1.0	U	1.0	0.43	mg/L			04/23/22 03:35	1
TOC Result 3	1.0	U	1.0	0.43	mg/L			04/23/22 03:35	1
TOC Result 4	1.0	U	1.0	0.43	mg/L			04/23/22 03:35	1
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			04/23/22 03:35	1

Client Sample ID: TRIP BLANK

Date Collected: 04/12/22 00:00
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-14
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 06:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 06:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 06:51	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 06:51	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:51	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 06:51	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 06:51	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 06:51	1

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-214074-1

Client Sample ID: TRIP BLANK
Date Collected: 04/12/22 00:00
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-14
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:51	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 06:51	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 06:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 06:51	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 06:51	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 06:51	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 06:51	1
Acetone	10	U	10	3.7	ug/L			04/22/22 06:51	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 06:51	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 06:51	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 06:51	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 06:51	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 06:51	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 06:51	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 06:51	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 06:51	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 06:51	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 06:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			04/22/22 06:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 06:51	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 06:51	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 06:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 06:51	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 06:51	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 06:51	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/22/22 06:51	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 06:51	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 06:51	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 06:51	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 06:51	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 06:51	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 06:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 06:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 06:51	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 06:51	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 06:51	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			04/22/22 06:51	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*04/22/22 06:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/22/22 06:51*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 06:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/22/22 06:51*	*1*

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-214074-1

Client Sample ID: MW-25-041222
Date Collected: 04/12/22 17:55
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-15
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.1	ug/L			04/22/22 10:10	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	2.0	ug/L			04/22/22 10:10	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.2	ug/L			04/22/22 10:10	5
1,1,2-Trichloroethane	5.0	U	5.0	1.6	ug/L			04/22/22 10:10	5
1,1-Dichloroethane	**15**		5.0	1.7	ug/L			04/22/22 10:10	5
1,1-Dichloroethene	5.0	U	5.0	1.7	ug/L			04/22/22 10:10	5
1,2,4-Trichlorobenzene	25	U	25	2.7	ug/L			04/22/22 10:10	5
1,2-Dibromo-3-Chloropropane	25	U	25	9.0	ug/L			04/22/22 10:10	5
1,2-Dibromoethane	5.0	U	5.0	1.7	ug/L			04/22/22 10:10	5
1,2-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/22/22 10:10	5
1,2-Dichloroethane	**2.2**	**J**	5.0	1.3	ug/L			04/22/22 10:10	5
1,2-Dichloropropane	5.0	U	5.0	1.1	ug/L			04/22/22 10:10	5
1,3-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/22/22 10:10	5
1,4-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			04/22/22 10:10	5
2-Butanone (MEK)	50	U	50	32	ug/L			04/22/22 10:10	5
2-Hexanone	50	U	50	16	ug/L			04/22/22 10:10	5
4-Methyl-2-pentanone (MIBK)	50	U	50	14	ug/L			04/22/22 10:10	5
Acetone	**29**	**J**	50	19	ug/L			04/22/22 10:10	5
Benzene	**69**		5.0	1.4	ug/L			04/22/22 10:10	5
Bromodichloromethane	5.0	U	5.0	1.3	ug/L			04/22/22 10:10	5
Bromoform	5.0	U	5.0	3.0	ug/L			04/22/22 10:10	5
Bromomethane	25	U	25	19	ug/L			04/22/22 10:10	5
Carbon disulfide	10	U	10	2.2	ug/L			04/22/22 10:10	5
Carbon tetrachloride	5.0	U	5.0	1.5	ug/L			04/22/22 10:10	5
Chlorobenzene	5.0	U	5.0	0.75	ug/L			04/22/22 10:10	5
Chloroethane	25	U	25	23	ug/L			04/22/22 10:10	5
Chloroform	5.0	U	5.0	1.4	ug/L			04/22/22 10:10	5
Chloromethane	5.0	U	5.0	2.7	ug/L			04/22/22 10:10	5
cis-1,2-Dichloroethene	**69**		5.0	1.3	ug/L			04/22/22 10:10	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.3	ug/L			04/22/22 10:10	5
Cyclohexane	5.0	U	5.0	1.4	ug/L			04/22/22 10:10	5
Dibromochloromethane	5.0	U	5.0	2.0	ug/L			04/22/22 10:10	5
Dichlorodifluoromethane	5.0	U	5.0	1.8	ug/L			04/22/22 10:10	5
Ethylbenzene	5.0	U	5.0	1.0	ug/L			04/22/22 10:10	5
Isopropylbenzene	5.0	U	5.0	1.3	ug/L			04/22/22 10:10	5
Methyl acetate	25	U	25	16	ug/L			04/22/22 10:10	5
Methyl tert-butyl ether	25	U	25	4.1	ug/L			04/22/22 10:10	5
Methylcyclohexane	5.0	U	5.0	1.7	ug/L			04/22/22 10:10	5
Methylene Chloride	25	U	25	16	ug/L			04/22/22 10:10	5
Styrene	5.0	U	5.0	1.4	ug/L			04/22/22 10:10	5
Tetrachloroethene	**6.7**		2.5	1.8	ug/L			04/22/22 10:10	5
Toluene	5.0	U	5.0	1.3	ug/L			04/22/22 10:10	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.7	ug/L			04/22/22 10:10	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.2	ug/L			04/22/22 10:10	5
Trichloroethene	**3.0**	**J**	5.0	1.0	ug/L			04/22/22 10:10	5
Trichlorofluoromethane	5.0	U	5.0	1.7	ug/L			04/22/22 10:10	5
Vinyl chloride	**150**		5.0	2.0	ug/L			04/22/22 10:10	5
Xylenes, Total	5.0	U	5.0	1.2	ug/L			04/22/22 10:10	5

Client Sample ID: MW-25-041222

Date Collected: 04/12/22 17:55
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-15

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*04/22/22 10:10*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*04/22/22 10:10*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 10:10*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/22/22 10:10*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**1300**	D	11	3.0	ug/L			04/19/22 12:37	10
Ethene	**280**		1.0	0.31	ug/L			04/18/22 15:57	1
Methane (TCD)	**19000**		390	59	ug/L			04/18/22 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**12**		1.0	0.43	mg/L			04/23/22 06:30	1
TOC Result 2	**13**		1.0	0.43	mg/L			04/23/22 06:30	1
TOC Result 3	**12**		1.0	0.43	mg/L			04/23/22 06:30	1
TOC Result 4	**13**		1.0	0.43	mg/L			04/23/22 06:30	1
Total Organic Carbon	**13**		1.0	0.43	mg/L			04/23/22 06:30	1

Client Sample ID: ~~MW-24-041222~~ MW-24-041322

Date Collected: ~~04/12/22~~ 09:50 04/13/22
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-16

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 07:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 07:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 07:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 07:13	1
1,1-Dichloroethane	**13**		1.0	0.33	ug/L			04/22/22 07:13	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 07:13	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 07:13	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 07:13	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:13	1
1,2-Dichloroethane	**1.8**		1.0	0.25	ug/L			04/22/22 07:13	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 07:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:13	1
2-Butanone (MEK)	**83**		10	6.4	ug/L			04/22/22 07:13	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 07:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 07:13	1
Acetone	**260**		10	3.7	ug/L			04/22/22 07:13	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 07:13	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 07:13	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 07:13	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 07:13	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 07:13	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 07:13	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 07:13	1
Chloroethane	**23**		5.0	4.6	ug/L			04/22/22 07:13	1

Client Sample ID: ~~MW-24-041222~~ MW-24-041322
Date Collected: ~~04/12/22~~ 09:50 04/13/22
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-16
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 07:13	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 07:13	1
cis-1,2-Dichloroethene	**0.58**	**J**	1.0	0.25	ug/L			04/22/22 07:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 07:13	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 07:13	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 07:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 07:13	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 07:13	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 07:13	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/22/22 07:13	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 07:13	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 07:13	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 07:13	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 07:13	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 07:13	1
Toluene	**0.76**	**J**	1.0	0.25	ug/L			04/22/22 07:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 07:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 07:13	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 07:13	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:13	1
Vinyl chloride	**4.3**		1.0	0.40	ug/L			04/22/22 07:13	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*04/22/22 07:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/22/22 07:13*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/22/22 07:13*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*04/22/22 07:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**100**		1.1	0.30	ug/L			04/18/22 16:10	1
Ethene	**47**		1.0	0.31	ug/L			04/18/22 16:10	1
Methane (TCD)	**24000**		390	59	ug/L			04/18/22 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**280**		10	4.3	mg/L			04/25/22 05:42	10
TOC Result 2	**280**		10	4.3	mg/L			04/25/22 05:42	10
TOC Result 3	**290**		10	4.3	mg/L			04/25/22 05:42	10
TOC Result 4	**280**		10	4.3	mg/L			04/25/22 05:42	10
Total Organic Carbon	**280**		10	4.3	mg/L			04/25/22 05:42	10

Client Sample ID: ~~MW-23-041222~~ MW-23-041322
Date Collected: 04/13/22 09:50
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-17
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 07:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 07:35	1

Client Sample ID: ~~MW-23-041222~~ MW-23-041322
Date Collected: 04/13/22 09:50
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-17
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 07:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 07:35	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:35	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 07:35	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 07:35	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 07:35	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:35	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 07:35	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 07:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:35	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 07:35	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 07:35	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 07:35	1
Acetone	10	U	10	3.7	ug/L			04/22/22 07:35	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 07:35	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 07:35	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 07:35	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 07:35	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 07:35	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 07:35	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 07:35	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 07:35	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 07:35	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 07:35	1
cis-1,2-Dichloroethene	**0.49**	**J**	1.0	0.25	ug/L			04/22/22 07:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 07:35	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 07:35	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 07:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 07:35	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 07:35	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 07:35	1
Methyl acetate	5.0	U *+	5.0	3.2	ug/L			04/22/22 07:35	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 07:35	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 07:35	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 07:35	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 07:35	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 07:35	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 07:35	1
trans-1,2-Dichloroethene	**0.39**	**J**	1.0	0.34	ug/L			04/22/22 07:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 07:35	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 07:35	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:35	1
Vinyl chloride	**1.3**		1.0	0.40	ug/L			04/22/22 07:35	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*04/22/22 07:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/22/22 07:35*	*1*

Client Sample ID: MW-23-041222

Date Collected: 04/13/22 09:50
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-17

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/22/22 07:35*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/22/22 07:35*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**260**		1.1	0.30	ug/L			04/18/22 16:23	1
Ethene	**25**		1.0	0.31	ug/L			04/18/22 16:23	1
Methane (TCD)	**26000**		390	59	ug/L			04/18/22 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**11**		1.0	0.43	mg/L			04/23/22 07:58	1
TOC Result 2	**11**		1.0	0.43	mg/L			04/23/22 07:58	1
TOC Result 3	**11**		1.0	0.43	mg/L			04/23/22 07:58	1
TOC Result 4	**11**		1.0	0.43	mg/L			04/23/22 07:58	1
Total Organic Carbon	**11**		1.0	0.43	mg/L			04/23/22 07:58	1

Client Sample ID: ~~MW-B1-041222~~ MW-B1-041322

Date Collected: 04/13/22 11:00
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-18

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 07:58	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 07:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 07:58	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 07:58	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:58	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 07:58	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 07:58	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 07:58	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:58	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:58	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 07:58	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 07:58	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:58	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 07:58	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 07:58	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 07:58	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 07:58	1
Acetone	10	U	10	3.7	ug/L			04/22/22 07:58	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 07:58	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 07:58	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 07:58	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 07:58	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 07:58	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 07:58	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 07:58	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 07:58	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 07:58	1

Client Sample ID: ~~MW-B1-041222~~ MW-B1-041322

Lab Sample ID: 680-214074-18
Matrix: Water
Date Collected: 04/13/22 11:00
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 07:58	1
cis-1,2-Dichloroethene	**0.35**	**J**	1.0	0.25	ug/L			04/22/22 07:58	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 07:58	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 07:58	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 07:58	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 07:58	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 07:58	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 07:58	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/22/22 07:58	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 07:58	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 07:58	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 07:58	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 07:58	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 07:58	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 07:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 07:58	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 07:58	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 07:58	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 07:58	1
Vinyl chloride	**0.48**	**J**	1.0	0.40	ug/L			04/22/22 07:58	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*04/22/22 07:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/22/22 07:58*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/22/22 07:58*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/22/22 07:58*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**55**		1.1	0.30	ug/L			04/18/22 16:36	1
Ethene	**2.7**		1.0	0.31	ug/L			04/18/22 16:36	1
Methane (TCD)	**7100**		390	59	ug/L			04/18/22 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**16**		1.0	0.43	mg/L			04/23/22 08:27	1
TOC Result 2	**16**		1.0	0.43	mg/L			04/23/22 08:27	1
TOC Result 3	**17**		1.0	0.43	mg/L			04/23/22 08:27	1
TOC Result 4	**18**		1.0	0.43	mg/L			04/23/22 08:27	1
Total Organic Carbon	**17**		1.0	0.43	mg/L			04/23/22 08:27	1

Client Sample ID: FB-2-041322

Lab Sample ID: 680-214074-19
Matrix: Water
Date Collected: 04/13/22 11:20
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/22/22 08:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/22/22 08:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/22/22 08:20	1

Client Sample ID: FB-2-041322
Date Collected: 04/13/22 11:20
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-19
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/22/22 08:20	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/22/22 08:20	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/22/22 08:20	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/22/22 08:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/22/22 08:20	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/22/22 08:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 08:20	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/22/22 08:20	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/22/22 08:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 08:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/22/22 08:20	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/22/22 08:20	1
2-Hexanone	10	U	10	3.2	ug/L			04/22/22 08:20	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/22/22 08:20	1
Acetone	10	U	10	3.7	ug/L			04/22/22 08:20	1
Benzene	1.0	U	1.0	0.27	ug/L			04/22/22 08:20	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/22/22 08:20	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/22/22 08:20	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/22/22 08:20	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/22/22 08:20	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/22/22 08:20	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/22/22 08:20	1
Chloroethane	5.0	U	5.0	4.6	ug/L			04/22/22 08:20	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/22/22 08:20	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/22/22 08:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			04/22/22 08:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/22/22 08:20	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/22/22 08:20	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/22/22 08:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/22/22 08:20	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/22/22 08:20	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/22/22 08:20	1
Methyl acetate	5.0	U **	5.0	3.2	ug/L			04/22/22 08:20	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/22/22 08:20	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/22/22 08:20	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/22/22 08:20	1
Styrene	1.0	U	1.0	0.27	ug/L			04/22/22 08:20	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/22/22 08:20	1
Toluene	1.0	U	1.0	0.25	ug/L			04/22/22 08:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/22/22 08:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/22/22 08:20	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/22/22 08:20	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/22/22 08:20	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			04/22/22 08:20	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/22/22 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*04/22/22 08:20*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/22/22 08:20*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/22/22 08:20*	*1*

Client Sample ID: FB-2-041322

Lab Sample ID: 680-214074-19

Date Collected: 04/13/22 11:20
Matrix: Water
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/22/22 08:20*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.1	U	1.1	0.30	ug/L			04/18/22 16:49	1
Ethene	1.0	U	1.0	0.31	ug/L			04/18/22 16:49	1
Methane	**1.3**		0.58	0.57	ug/L			04/18/22 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	1.0	U	1.0	0.43	mg/L			04/23/22 08:55	1
TOC Result 2	1.0	U	1.0	0.43	mg/L			04/23/22 08:55	1
TOC Result 3	1.0	U	1.0	0.43	mg/L			04/23/22 08:55	1
TOC Result 4	1.0	U	1.0	0.43	mg/L			04/23/22 08:55	1
Total Organic Carbon	1.0	U	1.0	0.43	mg/L			04/23/22 08:55	1

Client Sample ID: ~~IW-B3-041222~~ IW-B3-041322

Lab Sample ID: 680-214074-20

Date Collected: 04/13/22 11:00
Matrix: Water
Date Received: 04/14/22 10:40

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			04/21/22 19:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			04/21/22 19:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			04/21/22 19:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			04/21/22 19:47	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:47	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			04/21/22 19:47	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			04/21/22 19:47	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			04/21/22 19:47	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:47	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			04/21/22 19:47	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			04/21/22 19:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			04/21/22 19:47	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			04/21/22 19:47	1
2-Hexanone	10	U	10	3.2	ug/L			04/21/22 19:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			04/21/22 19:47	1
Acetone	10	U	10	3.7	ug/L			04/21/22 19:47	1
Benzene	1.0	U	1.0	0.27	ug/L			04/21/22 19:47	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			04/21/22 19:47	1
Bromoform	1.0	U	1.0	0.59	ug/L			04/21/22 19:47	1
Bromomethane	5.0	U	5.0	3.7	ug/L			04/21/22 19:47	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			04/21/22 19:47	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			04/21/22 19:47	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			04/21/22 19:47	1
Chloroethane	5.0	U UJ	5.0	4.6	ug/L			04/21/22 19:47	1
Chloroform	1.0	U	1.0	0.27	ug/L			04/21/22 19:47	1
Chloromethane	1.0	U	1.0	0.54	ug/L			04/21/22 19:47	1

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-214074-1

Client Sample ID: ~~IW-B3-041222~~ IW-B3-041322
Date Collected: 04/13/22 11:00
Date Received: 04/14/22 10:40

Lab Sample ID: 680-214074-20
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			04/21/22 19:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			04/21/22 19:47	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			04/21/22 19:47	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			04/21/22 19:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			04/21/22 19:47	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			04/21/22 19:47	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			04/21/22 19:47	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			04/21/22 19:47	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			04/21/22 19:47	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			04/21/22 19:47	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			04/21/22 19:47	1
Styrene	1.0	U	1.0	0.27	ug/L			04/21/22 19:47	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			04/21/22 19:47	1
Toluene	1.0	U	1.0	0.25	ug/L			04/21/22 19:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			04/21/22 19:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			04/21/22 19:47	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			04/21/22 19:47	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			04/21/22 19:47	1
Vinyl chloride	**0.83**	**J**	1.0	0.40	ug/L			04/21/22 19:47	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			04/21/22 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*04/21/22 19:47*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*04/21/22 19:47*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*04/21/22 19:47*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/21/22 19:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	**49**		1.0	0.43	mg/L			04/23/22 09:24	1
TOC Result 2	**50**		1.0	0.43	mg/L			04/23/22 09:24	1
TOC Result 3	**50**		1.0	0.43	mg/L			04/23/22 09:24	1
TOC Result 4	**49**		1.0	0.43	mg/L			04/23/22 09:24	1
Total Organic Carbon	**50**		1.0	0.43	mg/L			04/23/22 09:24	1

DATA VALIDATION CHECKLIST **Ashland Rensselaer**

Sample Team:	ARCADIS
Sample Matrix:	Water
Lab Project Manager:	David Fuller
SDG Number:	680-224805-1
Analyses:	VOCs – 8260D, Dissolved gases – RSK 175 and TOC -9060A
QA Reporting Level:	ARCADIS, Level II
ARCADIS Project Manager:	Bill Golla

ARCADIS U.S., Inc.
855 Route 146 Suite 210,
Clifton Park NY 12065
Tel. 614-985-9138

Environmental
Project: Ashland
Project Number: 30152940.402

Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005 November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999, as appropriate).

The data verification was performed at a Level II and included review of data package completeness, Laboratory Control Sample and Laboratory Control Sample Duplicate recoveries, Method Blanks, Field Blanks, Trip Blanks, Matrix Spike and Matrix Spike Duplicate recoveries, Field Duplicates, Laboratory Duplicate results, and Holding Time compliance. Laboratory calculations were not verified. Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

Only QA/QC results and analytical data associated with analytes/compounds of interest were reviewed for this validation.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The following samples were included in this data validation:

SDG	Sample ID	Lab ID	Sample Date	Parent Sample
680-224805-1	IP-1-110222	680-224805-1	11/02/22	
	IMP-3-110222	680-224805-2	11/02/22	
	MW-13-110222	680-224805-3	11/02/22	
	MW-16-110222	680-224805-4	11/02/22	
	MW-17-110222	680-224805-5	11/02/22	
	MW-18-110222	680-224805-6	11/02/22	
	MW-20-110222	680-224805-7	11/02/22	
	MW-21-110222	680-224805-8	11/02/22	
	MW-24-110222	680-224805-9	11/02/22	
	FB-1-110222	680-224805-10	11/02/22	
	Trip Blank	680-224805-11	11/02/22	
	MW-B1-110322	680-224805-12	11/03/22	
	IW-A2-110322	680-224805-13	11/03/22	
	MW-23-110322	680-224805-14	11/03/22	
	MW-25-110322	680-224805-15	11/03/22	
	IW-B3-110322	680-224805-16	11/03/22	
	FB-2-110322	680-224805-17	11/03/22	
	MW-A1-110322	680-224805-18	11/03/22	
	MW-19-110322	680-224805-19	11/03/22	
	DUP-1-110322	680-224805-20	11/03/22	MW-19-110322

I. GENERAL INFORMATION

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Chain of Custody		X	X		X		
2. Sampling dates and times		X	X		X		
3. Sample type on COC		X	X		X		
4. Field QC samples		X	X		X		
5. Case Narrative		X	X		X		
6. Laboratory Report Checklist		X	X		X		
7. Laboratory Exception Reports		X	X		X		
8. Sample Receipt Condition		X		X		X	

COMMENTS: Performance was acceptable, with the following exceptions and notes.
“Exceptions Noted” = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
“General Comments Noted” = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative.

The analytical report was complete with exceptions or notations.

8. All vials for sample, IW-A2-110322 (680-224805-13) were received with bubbles >6mm.The details were reported in Section 2.

It is noted in the case narrative that no vials received for TOC analysis for sample IP-1-110222 (680-224805-1).

II. VOLATILE ORGANIC COMPOUNDS (VOCs - SW8260C)

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Holding times		X		X		X	
2.Sample receipt condition		X		X		X	
3. Reporting limits		X	X		X		
4. Blanks							
A. Method Blanks		X	X		X		
B. Field Blanks/Equipment Blanks		X		X		X	
C. Trip Blanks		X	X		X		
5. Laboratory control sample (LCS) %R		X		X		X	
6. Laboratory control sample duplicate (LCSD) %R		X		X		X	
7. LCS/LCSD RPD		X	X			X	
8. Matrix spike (MS) %R		X		X		X	
9. MSD %R		X		X		X	
10. MS/MSD RPD		X	X			X	
11. Surrogate Recoveries		X	X			X	
12. Field Duplicate Comparison		X		X		X	

Notes:
%R - percent recovery
RPD - relative percent difference
MSD- Matrix Spike Duplicate
"Exceptions Noted" = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
"General Comments Noted" = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative

COMMENTS: Performance was acceptable, with below exceptions.

1. The sample MW-19-110322 (680-224805-19) was reanalyzed on 15th day from the date of sample collection due to the dilution for the compounds vinyl chloride and chloroethane. Hence the compounds associated with the sample were qualified as estimated (J/UJ).

2. It is noted in the case narrative that the sample was analyzed with headspace for sample IW-A2-110322 (680-224805-13). The compounds in the associated sample were qualified as estimated (J/UJ).

   It is noted in the case narrative that the samples MW-24-110222 (680-224805-9) and IW-A2-110322 (680-224805-13) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples. The compounds in the associated sample were qualified as estimated (J/UJ)

4B. The analyte methylene chloride (4.9 J ug/Land 7.8 ug/L) was detected above method detection limit in field blanks FB-1-110222 and FB-2-110322 sample. For sample results associated with field blank contamination

that were greater than the blank action limit / non detects did not require any qualifications. The sample results (for Methylene Chloride) were less than the blank action limit but greater than reporting limit, were qualified as UB at detected concentrations and sample results (for Methylene Chloride) were less than reporting limit and blank action limit were qualified as UB at reporting limit (RL).

5-7. The LCS / LCSD recovery for compound 1,2,4-Trichlorobenzene was greater than the control limit in analysis batch 750555. However, the compound 1,2,4-Trichlorobenzene associated with the samples were non-detect, hence no other qualification of the data was required.

The LCS/LCSD recovery for the compound 1,2-Dibromo-3-Chloropropane was below the control limit in analysis batch 750659. The compound 1,2-Dibromo-3-Chloropropane associated with the samples were qualified as estimated (J/UJ).

The LCS / LCSD recovery for compounds chloroethane, dichlorodifluoromethane, trichlorofluoromethane, and vinyl chloride was greater than the control limit in analysis batch 750659. The compounds associated with the samples were qualified as estimated for detects and no qualification was applied for non-detects.

The LCS / LCSD recovery for compound chloroethane, was greater than the control limit in analysis batch 750885.The compound associated with the samples were qualified as estimated for detects and no qualification was applied for non-detects.

The LCSD recovery for the compound dichlorodifluoromethane was below the control limit in analysis batch 750885.The compound dichlorodifluoromethane associated with the samples were qualified as estimated (J/UJ).

8-10. The MS/MSD analysis performed on sample MW-B1-110322.The MS/MSD recovery for compound 1,2-Dibromo-3-Chloropropane, was below the control limit. The compound 1,2-Dibromo-3-Chloropropane, associated with the sample was qualified as estimated. The MS/MSD analysis exhibited acceptable RPDs between MS/MSD Recoveries.

The MS/MSD analysis performed on sample MW-B1-110322.The MS/MSD recovery for compounds chloroethane and trichlorofluoromethane, was greater than the control limit. The compounds associated with samples was non-detect, hence no other qualification of the data was required. The MS/MSD analysis exhibited acceptable RPDs between MS/MSD Recoveries.

11. All surrogate recoveries were within control limits.

12. A field duplicate sample DUP-1-110322 was collected from MW-19-110322.The compounds chloroethane and vinyl chloride associated with the sample location MW-19-110322 and DUP-1-110322 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed compound were qualified as estimated.

Note: The case narrative noted that the CCVs for 1,2,4-Trichlorobenzene and trichlorofluoromethane were outside the control limits with a high bias. The associated field samples IP-1-110222, IMP-3-110222, MW-13-110222, MW-16-110222, MW-17-110222, MW-18-110222, MW-20-110222, MW-21-110222, MW-24-110222, FB-1-110222, and Trip Blank results were non-detect for the above-mentioned compound; therefore, the results are qualified as UJ.

The case narrative noted that the CCVs for 2-Hexanone,1,2-Dibromo-3-Chloropropane, bromomethane, chloromethane and methyl acetate were outside the control limits in analytical batch 751292 associated with the sample MW-19-110322. However, the batch is associated to the sample MW-19-110322 are from 750659. Hence, qualification is not required.

Sample IP-1-110222 results associated with compound cis-1,2-Dichloroethene exhibiting concentrations greater than the linear range are qualified as EJ.

The Sample MW-19-110322 results associated with compound chloroethane and vinyl chloride exhibiting concentrations greater than the linear range. However, the samples were diluted for the compounds within calibration range. Hence the compounds associated with the samples were qualified as D.

III. DISSOLVED GASES (RSK-175)

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Holding times		X	X		X		
2. Reporting limits		X	X		X		
3. Blanks							
A. Method Blanks		X	X		X		
B. Field Blanks/Equipment Blanks		X		X		X	
4. Laboratory control sample (LCS) %R		X	X		X		
5. Laboratory control sample duplicate (LCSD) %R		X	X		X		
6. LCS/LCSD RPD		X	X		X		
7. Matrix spike (MS) %R		X	X			X	
8. MSD %R		X	X			X	
9. MS/MSD RPD		X	X			X	
10. Field/Lab Duplicate Comparison		X	X			X	

Notes:
%R - percent recovery RPD - relative percent difference
MSD- Matrix Spike Duplicate
"Exceptions Noted" = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
"General Comments Noted" = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative

COMMENTS: Performance was acceptable, with below exceptions.

3.B The Compound Methane (1.5 ug/L and 0.79 ug/L) was detected in the FB-1-110222 and FB-2-110322 however, the associated sample results were greater than the BAL. No other qualification of the sample results was required.

7-9. The MS/MSD analysis was performed on sample MW-B1-110322, exhibited acceptable recoveries and RPDs.

10. A field duplicate sample DUP-1-110322 was collected from MW-19-110322 and the RPDs were acceptable.

Note: The Sample MW-25-110322 results associated with compound Ethane exhibiting concentrations greater than the linear range. However, the samples were diluted for the compounds within calibration range. Hence the compound associated with the sample were qualified as D.

IV. General Chemistry – (Total Organic Carbon -9060A)

ITEMS REVIEWED	REPORTED/ REVIEWED		EXCEPTIONS NOTED		GENERAL COMMENTS NOTED		ITEM NOT REQUIRED
	NO	YES	NO	YES	NO	YES	
1. Holding times		X	X		X		
2. Reporting limits		X	X		X		
3. Blanks							
A. Method Blanks		X	X		X		
B. Field Blanks/Equipment Blanks		X		X		X	
4. Laboratory control sample (LCS) %R		X	X		X		
5. Laboratory control sample duplicate (LCSD) %R	X						X
6. LCS/LCSD RPD	X						X
7. Matrix spike (MS) %R		X	X			X	
8. MSD %R		X	X			X	
9. MS/MSD RPD		X	X			X	
10. Lab Duplicate RPD		X	X			X	
11. Field/Lab Duplicate Comparison		X	X			X	

Notes:
%R - percent recovery RPD - relative percent difference
MSD- Matrix Spike Duplicate
"Exceptions Noted" = If an exception was noted in the accompanying exception report (ER) this will be checked in the affirmative.
"General Comments Noted" = If there are other comments associated with Data Quality (not necessarily noted in the ER) this will be checked in the affirmative

COMMENTS: Performance was acceptable, with below exceptions.

3.B The analyte TOC result 1, TOC result 2 and total organic carbon was detected above method detection limit in field blanks FB-1-110222. For sample results associated with field blank contamination that were greater than the blank action limit / non detects did not require any qualifications. The sample results were less than the blank action limit but greater than reporting limit, were qualified as UB at detected concentrations and sample results were less than reporting limit and blank action limit were qualified as UB at reporting limit (RL).

7-9. The MS analysis was performed on samples MW-17-110222, MW-25-110322 and MW-19-110322. The MS analysis exhibited recoveries within the control limit.

The MS/MSD analysis was performed on samples MW-B1-110322; The MS/MSD analysis exhibited recoveries and RPDs with in the control limit.

10. Samples MW-18-110222, IW-B3-110322 and DUP-1-110322 was used as the laboratory duplicate, exhibited acceptable RPD.

11. A field duplicate sample DUP-1-110322 was collected from MW-19-110322 and the RPDs were acceptable.

DATA VALIDATION QUALIFICATION SUMMARY

Qualifier Definitions:

J – The compound was positively identified; however, the associated numerical value is an estimated concentration only.
UJ – The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

D - Concentration is based on a diluted sample analysis

UB – Compound is considered non-detect at the listed value due to associated blank contamination.

Explanation/Notes:

Sample ID	Method	Parameter	Result	Units	Qualifier	Reason
IP-1-110222	8260D	cis-1,2-Dichloroethene	240	µg/L	EJ	Calibration range Exceedance
		1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
IMP-3-110222	8260D	Methylene Chloride	3.8	µg/L	UB	Blank Contamination
		1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
	9060A	Total Organic Carbon	1.4	mg/L	UB	Blank Contamination
MW-13-110222	8260D	Methylene Chloride	18	µg/L	UB	Blank Contamination
		1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
MW-16-110222	8260D	1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
	9060A	Total Organic Carbon	1.1	mg/L	UB	Blank Contamination
MW-17-110222	8260D	1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
MW-18-110222	9060A	Total Organic Carbon	2.7	mg/L	UB	Blank Contamination
	8260D	1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
MW-20-110222	8260D	Methylene Chloride	6.2	µg/L	UB	Blank Contamination
		1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
MW-21-110222	8260D	1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
MW-24-110222	8260D	All compounds	UJ/J	µg/L	UJ/J	Holding time exceedance
		Methylene Chloride	9.4	µg/L	UB	Blank Contamination
FB-1-110222	8260D	1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
Trip Blank	8260D	1,2,4-Trichlorobenzene	ND	µg/L	UJ	CCV %Recovery High bias
		Trichlorofluoromethane	ND	µg/L	UJ	CCV %Recovery High bias
MW-B1-110322	8260D	Methylene Chloride	9.1	µg/L	UB	Blank Contamination
		1,2-Dibromo-3-Chloropropane	ND	µg/L	UJ	LCS % Recovery low

Sample ID	Method	Parameter	Result	Units	Qualifier	Reason
IW-A2-110322	8260D	All compounds	UJ/J	µg/L	UJ/J	Holding time exceedance / head space in vial
MW-23-110322	8260D	1,2-Dibromo-3-Chloropropane	ND	µg/L	UJ	LCS % Recovery low
		Methylene Chloride	4.2	µg/L	UB	Blank Contamination
MW-25-110322	8260D	Chloroethane	50	µg/L	J	LCS % Recovery High
		Dichlorodifluoromethane	ND	µg/L	UJ	LCS % Recovery low
		Methylene Chloride	4.2	µg/L	UB	Blank Contamination
	RSK-175	Ethane	810	µg/L	D	Dilution
IW-B3-110322	8260D	1,2-Dibromo-3-Chloropropane	ND	µg/L	UJ	LCS % Recovery low
		Methylene Chloride	10	µg/L	UB	Blank Contamination
FB-2-110322	8260D	1,2-Dibromo-3-Chloropropane	ND	µg/L	UJ	LCS % Recovery low
MW-A1-110322	8260D	1,2-Dibromo-3-Chloropropane	ND	µg/L	UJ	LCS % Recovery low
MW-19-110322	8260D	1,2-Dibromo-3-Chloropropane	ND	µg/L	UJ	LCS % Recovery low
		Dichlorodifluoromethane	13	µg/L	J	LCS % Recovery High
		Methylene Chloride	3.3	µg/L	UB	Blank Contamination
		Chloroethane	73	µg/L	DJ	Diluted with holding time exceedance and Field duplicate RPD exceedance
		Vinyl chloride	150	µg/L	DJ	Diluted with holding time exceedance and Field duplicate RPD exceedance
DUP-1-110322	8260D	1,2-Dibromo-3-Chloropropane	ND	µg/L	UJ	LCS % Recovery low
		Chloroethane	210	µg/L	J	LCS % Recovery High and Field Duplicate RPD exceedance
		Dichlorodifluoromethane	9.5	µg/L	J	LCS % Recovery High
		Vinyl chloride	240	µg/L	J	Field Duplicate RPD exceedance

VALIDATION PERFORMED BY: Vinayak Hegde

SIGNATURE:

DATE: December 21, 2022

PEER REVIEW: Jennifer Singer

DATE: December 23, 2022

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Albany #224

Chain of Custody Record

Albany eurofins Environment Testing America

244-ATLANTA 224

Client Information	Sampler: ES/PH	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-135148-49378.1
Client Contact: Bill Golla	Phone: 518-320-4441	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: ARCADIS U S Inc	PWSID:			Job #:
Address: 855 Route 146, Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone: 614-985-9138	Lab Project #: 68016621			
Email: bill.golla@arcadis.com	Lab PO #:			
Project Name: Ashland Rensselaer	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	9060A - TOC	RSK_175 - Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code.				A	A	A		
IP-1-110222	11/2/22	1135	G	W			X	X	X	8	
IMP-3-110222		1255					X	X		5	
MW-13-110222		1605					X	X		5	
MW-16-110222		1210					X	X		5	
MW-17-110222		1020					X	X		5	
MW-18-110222		1020					X	X	X	8	
MW-20-110222		1620					X	X		5	
MW-21-110222		1125					X	X		5	
MW-24-110222		1705					X	X	X	8	
FB-1-110222		1240					X	X	X	8	
Trip Blank	—	—					X			2	

680-224805 Chain of Custody

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

Sample Disposal (A fee may be assessed if samples are retained longer ...)
☐ Return To Client ☐ Disposal By Lab ☒ Archive For Standard Months

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

Special Instructions/QC Requirements: Direct Bill: Ashland - Ian McCary (Ashland PM)

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

	Date/Time:	Company		Date/Time:	Company
Relinquished by:	11/3/22 1500	ARCADIS	Received by:	11-11-22 1500	EETW
Relinquished by:	11-3-22 1700	EETW	Received by:	11-4-22 1030	
Relinquished by:			Received by:		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 4.2/4.2

Ver 01/16/2019

12/13/2022 (Rev. 1)

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Albany #224

Chain of Custody Record

244- ATLANTA Albany #224

Eurofins | Environment Testing America

Client Information	Sampler: ES/PH	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-135148-49378 1
Client Contact: Bill Golla	Phone: 518-320-4441	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: NY	Page: Page 2 of 2
Company: ARCADIS U S Inc	PWSID:			Job #:
Address: 855 Route 146, Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone: 614-985-9138	Lab Project #: 68016621			
Email: bill.golla@arcadis.com	Lab PO #:			
Project Name: Ashland Rensselaer	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - VOCs	9060A - TOC	RSK_175 - Methane, Ethane, Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	A		
MW-B1-110322	11/3/22	0845	G	W		X	X	X	X	24	MS/MSD
IW-A2-110322		0900					X	X		5	
MW-23-110322		1005					X	X	X	8	
MW-25-110322		1035					X	X	X	8	
IW-B3-110322		1120					X	X		5	
FB-2-110322		1020					X	X	X	8	
MW-A1-110322		1200					X	X	X	8	
MW-19-110322		1325					X	X	X	8	
DUP-1-110322		0800					X	X	X	8	

MK 11-3-22

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

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

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

Special Instructions/QC Requirements: Direct Bill: Ashland - Ian McCoy (Ashland PM)

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

Relinquished by:	Date/Time: 11/3/22	1500	Company: ARCADIS	Received by:	Date/Time: 11-3-22	1500	Company: EETN
Relinquished by:	Date/Time: 11-3-22	1700	Company: EETN	Received by:	Date/Time: 11-4-22	1030	Company: TM
Relinquished by:	Date/Time:		Company:	Received by:	Date/Time:		Company:

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

Ver: 01/16/2019

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-224805-1

Client Sample ID: IP-1-110222
Date Collected: 11/02/22 11:35
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 08:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 08:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 08:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 08:18	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 08:18	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 08:18	1
1,2,4-Trichlorobenzene	5.0	U ~~**~~ UJ	5.0	0.53	ug/L			11/15/22 08:18	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 08:18	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 08:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 08:18	1
1,2-Dichloroethane	**0.45**	**J**	1.0	0.25	ug/L			11/15/22 08:18	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 08:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 08:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 08:18	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 08:18	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 08:18	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 08:18	1
Acetone	10	U	10	3.7	ug/L			11/15/22 08:18	1
Benzene	**1.1**		1.0	0.27	ug/L			11/15/22 08:18	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 08:18	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 08:18	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 08:18	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 08:18	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 08:18	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 08:18	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 08:18	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 08:18	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 08:18	1
cis-1,2-Dichloroethene	**240**	~~E~~ EJ	1.0	0.25	ug/L			11/15/22 08:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 08:18	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 08:18	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 08:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 08:18	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 08:18	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 08:18	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 08:18	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 08:18	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 08:18	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/15/22 08:18	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 08:18	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 08:18	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 08:18	1
trans-1,2-Dichloroethene	**1.9**		1.0	0.34	ug/L			11/15/22 08:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 08:18	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 08:18	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 08:18	1
Vinyl chloride	**77**		1.0	0.40	ug/L			11/15/22 08:18	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 08:18	1

Client Sample ID: IP-1-110222

Date Collected: 11/02/22 11:35
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*11/15/22 08:18*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/15/22 08:18*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/15/22 08:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/15/22 08:18*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**60**		1.1	0.30	ug/L			11/14/22 18:12	1
Ethene	**8.4**		1.0	0.31	ug/L			11/14/22 18:12	1
Methane (TCD)	**2400**		390	59	ug/L			11/14/22 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**4.6**		1.0	0.43	mg/L			11/16/22 06:02	1
TOC Result 2 (SW846 9060A)	**4.2**		1.0	0.43	mg/L			11/16/22 06:02	1
TOC Result 3 (SW846 9060A)	**4.8**		1.0	0.43	mg/L			11/16/22 06:02	1
TOC Result 4 (SW846 9060A)	**4.3**		1.0	0.43	mg/L			11/16/22 06:02	1
Total Organic Carbon (SW846 9060A)	**4.5**		1.0	0.43	mg/L			11/16/22 06:02	1

Client Sample ID: IMP-3-110222

Date Collected: 11/02/22 12:55
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 06:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 06:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 06:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 06:44	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 06:44	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 06:44	1
1,2,4-Trichlorobenzene	5.0	U*+ UJ	5.0	0.53	ug/L			11/15/22 06:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 06:44	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 06:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 06:44	1
1,2-Dichloroethane	**1.8**		1.0	0.25	ug/L			11/15/22 06:44	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 06:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 06:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 06:44	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 06:44	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 06:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 06:44	1
Acetone	10	U	10	3.7	ug/L			11/15/22 06:44	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 06:44	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 06:44	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 06:44	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 06:44	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 06:44	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 06:44	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 06:44	1

Client Sample ID: IMP-3-110222

Lab Sample ID: 680-224805-2

Date Collected: 11/02/22 12:55

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 06:44	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 06:44	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 06:44	1
cis-1,2-Dichloroethene	**42**		1.0	0.25	ug/L			11/15/22 06:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 06:44	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 06:44	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 06:44	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 06:44	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 06:44	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 06:44	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 06:44	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 06:44	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 06:44	1
Methylene Chloride	**3.8**	**J**	5.0 UB	3.2	ug/L			11/15/22 06:44	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 06:44	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 06:44	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 06:44	1
trans-1,2-Dichloroethene	**0.75**	**J**	1.0	0.34	ug/L			11/15/22 06:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 06:44	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 06:44	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 06:44	1
Vinyl chloride	**15**		1.0	0.40	ug/L			11/15/22 06:44	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/15/22 06:44*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/15/22 06:44*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/15/22 06:44*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/15/22 06:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**1.7**		1.0	0.43	mg/L			11/16/22 07:59	1
TOC Result 2 (SW846 9060A)	**1.1**		1.0	0.43	mg/L			11/16/22 07:59	1
TOC Result 3 (SW846 9060A)	**1.5**		1.0	0.43	mg/L			11/16/22 07:59	1
TOC Result 4 (SW846 9060A)	**1.2**		1.0	0.43	mg/L			11/16/22 07:59	1
Total Organic Carbon (SW846 9060A)	**1.4**	UB	1.0	0.43	mg/L			11/16/22 07:59	1

Client Sample ID: MW-13-110222

Lab Sample ID: 680-224805-3

Date Collected: 11/02/22 16:05

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 05:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 05:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 05:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 05:11	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 05:11	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 05:11	1

Client: Ashland LLC
Project/Site: Ashland Rensselaer

Job ID: 680-224805-1

Client Sample ID: MW-13-110222
Date Collected: 11/02/22 16:05
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	5.0	U *+ UJ	5.0	0.53	ug/L			11/15/22 05:11	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 05:11	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 05:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:11	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 05:11	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 05:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:11	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 05:11	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 05:11	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 05:11	1
Acetone	10	U	10	3.7	ug/L			11/15/22 05:11	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 05:11	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 05:11	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 05:11	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 05:11	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 05:11	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 05:11	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 05:11	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 05:11	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 05:11	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 05:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 05:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 05:11	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 05:11	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 05:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 05:11	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 05:11	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 05:11	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 05:11	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 05:11	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 05:11	1
Methylene Chloride	18	UB	5.0	3.2	ug/L			11/15/22 05:11	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 05:11	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 05:11	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 05:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 05:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 05:11	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 05:11	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 05:11	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/15/22 05:11	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*11/15/22 05:11*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/15/22 05:11*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/15/22 05:11*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/15/22 05:11*	*1*

Client Sample ID: MW-13-110222

Lab Sample ID: 680-224805-3

Date Collected: 11/02/22 16:05

Matrix: Water

Date Received: 11/04/22 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**0.59**	**J**	1.0	0.43	mg/L			11/16/22 08:28	1
TOC Result 2 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 08:28	1
TOC Result 3 (SW846 9060A)	**0.51**	**J**	1.0	0.43	mg/L			11/16/22 08:28	1
TOC Result 4 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 08:28	1
Total Organic Carbon (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 08:28	1

Client Sample ID: MW-16-110222

Lab Sample ID: 680-224805-4

Date Collected: 11/02/22 12:10

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 04:23	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 04:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 04:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 04:23	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 04:23	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 04:23	1
1,2,4-Trichlorobenzene	5.0	U *+	5.0	0.53	ug/L			11/15/22 04:23	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 04:23	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 04:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:23	1
1,2-Dichloroethane	**0.50**	**J**	1.0	0.25	ug/L			11/15/22 04:23	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 04:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:23	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 04:23	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 04:23	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 04:23	1
Acetone	10	U	10	3.7	ug/L			11/15/22 04:23	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 04:23	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 04:23	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 04:23	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 04:23	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 04:23	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 04:23	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 04:23	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 04:23	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 04:23	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 04:23	1
cis-1,2-Dichloroethene	**35**		1.0	0.25	ug/L			11/15/22 04:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 04:23	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 04:23	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 04:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 04:23	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 04:23	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 04:23	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 04:23	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 04:23	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 04:23	1

UJ

Client Sample ID: MW-16-110222

Lab Sample ID: 680-224805-4

Date Collected: 11/02/22 12:10

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/15/22 04:23	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 04:23	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 04:23	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 04:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 04:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 04:23	1
Trichloroethene	**4.4**		1.0	0.20	ug/L			11/15/22 04:23	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 04:23	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/15/22 04:23	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/15/22 04:23*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/15/22 04:23*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/15/22 04:23*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/15/22 04:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**1.2**		1.0	0.43	mg/L			11/16/22 08:56	1
TOC Result 2 (SW846 9060A)	**0.96**	**J**	1.0	0.43	mg/L			11/16/22 08:56	1
TOC Result 3 (SW846 9060A)	**1.3**		1.0	0.43	mg/L			11/16/22 08:56	1
TOC Result 4 (SW846 9060A)	**1.0**		1.0	0.43	mg/L			11/16/22 08:56	1
Total Organic Carbon (SW846 9060A)	**1.1**	UB	1.0	0.43	mg/L			11/16/22 08:56	1

Client Sample ID: MW-17-110222

Lab Sample ID: 680-224805-5

Date Collected: 11/02/22 10:20

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 04:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 04:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 04:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 04:47	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 04:47	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 04:47	1
1,2,4-Trichlorobenzene	5.0	U ** UJ	5.0	0.53	ug/L			11/15/22 04:47	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 04:47	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 04:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:47	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 04:47	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 04:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:47	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 04:47	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 04:47	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 04:47	1
Acetone	10	U	10	3.7	ug/L			11/15/22 04:47	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 04:47	1

Client Sample ID: MW-17-110222
Date Collected: 11/02/22 10:20
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 04:47	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 04:47	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 04:47	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 04:47	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 04:47	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 04:47	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 04:47	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 04:47	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 04:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 04:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 04:47	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 04:47	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 04:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 04:47	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 04:47	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 04:47	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 04:47	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 04:47	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 04:47	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/15/22 04:47	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 04:47	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 04:47	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 04:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 04:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 04:47	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 04:47	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 04:47	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/15/22 04:47	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/15/22 04:47*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/15/22 04:47*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/15/22 04:47*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/15/22 04:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**4.2**		1.0	0.43	mg/L			11/16/22 10:51	1
TOC Result 2 (SW846 9060A)	**3.4**		1.0	0.43	mg/L			11/16/22 10:51	1
TOC Result 3 (SW846 9060A)	**4.1**		1.0	0.43	mg/L			11/16/22 10:51	1
TOC Result 4 (SW846 9060A)	**3.5**		1.0	0.43	mg/L			11/16/22 10:51	1
Total Organic Carbon (SW846 9060A)	**3.8**		1.0	0.43	mg/L			11/16/22 10:51	1

Client Sample ID: MW-18-110222

Date Collected: 11/02/22 10:20
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.1	ug/L			11/15/22 09:52	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	2.0	ug/L			11/15/22 09:52	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.2	ug/L			11/15/22 09:52	5
1,1,2-Trichloroethane	5.0	U	5.0	1.6	ug/L			11/15/22 09:52	5
1,1-Dichloroethane	5.0	U	5.0	1.7	ug/L			11/15/22 09:52	5
1,1-Dichloroethene	5.0	U	5.0	1.7	ug/L			11/15/22 09:52	5
1,2,4-Trichlorobenzene	25	U ** UJ	25	2.7	ug/L			11/15/22 09:52	5
1,2-Dibromo-3-Chloropropane	25	U	25	9.0	ug/L			11/15/22 09:52	5
1,2-Dibromoethane	5.0	U	5.0	1.7	ug/L			11/15/22 09:52	5
1,2-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			11/15/22 09:52	5
1,2-Dichloroethane	5.0	U	5.0	1.3	ug/L			11/15/22 09:52	5
1,2-Dichloropropane	5.0	U	5.0	1.1	ug/L			11/15/22 09:52	5
1,3-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			11/15/22 09:52	5
1,4-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			11/15/22 09:52	5
2-Butanone (MEK)	50	U	50	32	ug/L			11/15/22 09:52	5
2-Hexanone	50	U	50	16	ug/L			11/15/22 09:52	5
4-Methyl-2-pentanone (MIBK)	50	U	50	14	ug/L			11/15/22 09:52	5
Acetone	50	U	50	19	ug/L			11/15/22 09:52	5
Benzene	5.0	U	5.0	1.4	ug/L			11/15/22 09:52	5
Bromodichloromethane	5.0	U	5.0	1.3	ug/L			11/15/22 09:52	5
Bromoform	5.0	U	5.0	3.0	ug/L			11/15/22 09:52	5
Bromomethane	25	U	25	19	ug/L			11/15/22 09:52	5
Carbon disulfide	10	U	10	2.2	ug/L			11/15/22 09:52	5
Carbon tetrachloride	5.0	U	5.0	1.5	ug/L			11/15/22 09:52	5
Chlorobenzene	5.0	U	5.0	0.75	ug/L			11/15/22 09:52	5
Chloroethane	25	U	25	23	ug/L			11/15/22 09:52	5
Chloroform	5.0	U	5.0	1.4	ug/L			11/15/22 09:52	5
Chloromethane	5.0	U	5.0	2.7	ug/L			11/15/22 09:52	5
cis-1,2-Dichloroethene	**250**		5.0	1.3	ug/L			11/15/22 09:52	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.3	ug/L			11/15/22 09:52	5
Cyclohexane	5.0	U	5.0	1.4	ug/L			11/15/22 09:52	5
Dibromochloromethane	5.0	U	5.0	2.0	ug/L			11/15/22 09:52	5
Dichlorodifluoromethane	5.0	U	5.0	1.8	ug/L			11/15/22 09:52	5
Ethylbenzene	**11**		5.0	1.0	ug/L			11/15/22 09:52	5
Isopropylbenzene	5.0	U	5.0	1.3	ug/L			11/15/22 09:52	5
Methyl acetate	25	U	25	16	ug/L			11/15/22 09:52	5
Methyl tert-butyl ether	25	U	25	4.1	ug/L			11/15/22 09:52	5
Methylcyclohexane	5.0	U	5.0	1.7	ug/L			11/15/22 09:52	5
Methylene Chloride	25	U	25	16	ug/L			11/15/22 09:52	5
Styrene	**7.7**		5.0	1.4	ug/L			11/15/22 09:52	5
Tetrachloroethene	2.5	U	2.5	1.8	ug/L			11/15/22 09:52	5
Toluene	**6.6**		5.0	1.3	ug/L			11/15/22 09:52	5
trans-1,2-Dichloroethene	5.0	U	5.0	1.7	ug/L			11/15/22 09:52	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.2	ug/L			11/15/22 09:52	5
Trichloroethene	5.0	U	5.0	1.0	ug/L			11/15/22 09:52	5
Trichlorofluoromethane	5.0	U UJ	5.0	1.7	ug/L			11/15/22 09:52	5
Vinyl chloride	**81**		5.0	2.0	ug/L			11/15/22 09:52	5
Xylenes, Total	**71**		5.0	1.2	ug/L			11/15/22 09:52	5

Client Sample ID: MW-18-110222

Date Collected: 11/02/22 10:20
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*11/15/22 09:52*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/15/22 09:52*	*5*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/15/22 09:52*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/15/22 09:52*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**70**		1.1	0.30	ug/L			11/14/22 17:08	1
Ethene	**5.3**		1.0	0.31	ug/L			11/14/22 17:08	1
Methane (TCD)	**850**		390	59	ug/L			11/14/22 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**3.0**		1.0	0.43	mg/L			11/16/22 11:49	1
TOC Result 2 (SW846 9060A)	**2.4**		1.0	0.43	mg/L			11/16/22 11:49	1
TOC Result 3 (SW846 9060A)	**3.1**		1.0	0.43	mg/L			11/16/22 11:49	1
TOC Result 4 (SW846 9060A)	**2.4**		1.0	0.43	mg/L			11/16/22 11:49	1
Total Organic Carbon (SW846 9060A)	**2.7**	UB	1.0	0.43	mg/L			11/16/22 11:49	1

Client Sample ID: MW-20-110222

Date Collected: 11/02/22 16:20
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-7

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 05:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 05:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 05:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 05:34	1
1,1-Dichloroethane	**0.33**	**J**	1.0	0.33	ug/L			11/15/22 05:34	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 05:34	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/15/22 05:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 05:34	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 05:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:34	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 05:34	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 05:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:34	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 05:34	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 05:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 05:34	1
Acetone	10	U	10	3.7	ug/L			11/15/22 05:34	1
Benzene	**1.5**		1.0	0.27	ug/L			11/15/22 05:34	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 05:34	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 05:34	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 05:34	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 05:34	1
Carbon tetrachloride	**0.86**	**J**	1.0	0.30	ug/L			11/15/22 05:34	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 05:34	1

Client Sample ID: MW-20-110222

Lab Sample ID: 680-224805-7

Date Collected: 11/02/22 16:20
Matrix: Water
Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 05:34	1
Chloroform	**2.0**		1.0	0.27	ug/L			11/15/22 05:34	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 05:34	1
cis-1,2-Dichloroethene	**7.7**		1.0	0.25	ug/L			11/15/22 05:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 05:34	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 05:34	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 05:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 05:34	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 05:34	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 05:34	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 05:34	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 05:34	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 05:34	1
Methylene Chloride	**6.2**	UB	5.0	3.2	ug/L			11/15/22 05:34	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 05:34	1
Tetrachloroethene	**58**		0.50	0.35	ug/L			11/15/22 05:34	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 05:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 05:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 05:34	1
Trichloroethene	**7.6**		1.0	0.20	ug/L			11/15/22 05:34	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 05:34	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/15/22 05:34	1
Xylenes, Total	**0.70**	**J**	1.0	0.23	ug/L			11/15/22 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/15/22 05:34*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*11/15/22 05:34*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/15/22 05:34*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/15/22 05:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**3.8**		1.0	0.43	mg/L			11/16/22 12:17	1
TOC Result 2 (SW846 9060A)	**3.2**		1.0	0.43	mg/L			11/16/22 12:17	1
TOC Result 3 (SW846 9060A)	**3.7**		1.0	0.43	mg/L			11/16/22 12:17	1
TOC Result 4 (SW846 9060A)	**3.2**		1.0	0.43	mg/L			11/16/22 12:17	1
Total Organic Carbon (SW846 9060A)	**3.5**		1.0	0.43	mg/L			11/16/22 12:17	1

Client Sample ID: MW-21-110222

Lab Sample ID: 680-224805-8

Date Collected: 11/02/22 11:25
Matrix: Water
Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 05:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 05:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 05:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 05:57	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 05:57	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 05:57	1

Client Sample ID: MW-21-110222

Date Collected: 11/02/22 11:25
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-8

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	5.0	U *+ UJ	5.0	0.53	ug/L			11/15/22 05:57	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 05:57	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 05:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:57	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 05:57	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 05:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 05:57	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 05:57	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 05:57	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 05:57	1
Acetone	10	U	10	3.7	ug/L			11/15/22 05:57	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 05:57	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 05:57	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 05:57	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 05:57	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 05:57	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 05:57	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 05:57	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 05:57	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 05:57	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 05:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 05:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 05:57	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 05:57	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 05:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 05:57	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 05:57	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 05:57	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 05:57	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 05:57	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 05:57	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/15/22 05:57	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 05:57	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 05:57	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 05:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 05:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 05:57	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 05:57	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 05:57	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/15/22 05:57	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/15/22 05:57*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*11/15/22 05:57*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/15/22 05:57*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/15/22 05:57*	*1*

Client Sample ID: MW-21-110222

Lab Sample ID: 680-224805-8

Date Collected: 11/02/22 11:25
Date Received: 11/04/22 10:30

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	5.6		1.0	0.43	mg/L			11/16/22 12:46	1
TOC Result 2 (SW846 9060A)	4.8		1.0	0.43	mg/L			11/16/22 12:46	1
TOC Result 3 (SW846 9060A)	5.8		1.0	0.43	mg/L			11/16/22 12:46	1
TOC Result 4 (SW846 9060A)	5.1		1.0	0.43	mg/L			11/16/22 12:46	1
Total Organic Carbon (SW846 9060A)	5.3		1.0	0.43	mg/L			11/16/22 12:46	1

Client Sample ID: MW-24-110222

Lab Sample ID: 680-224805-9

Date Collected: 11/02/22 17:05
Date Received: 11/04/22 10:30

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U H4 UJ	1.0	0.21	ug/L			11/15/22 06:21	1
1,1,2,2-Tetrachloroethane	1.0	U H4	1.0	0.40	ug/L			11/15/22 06:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U H4	1.0	0.23	ug/L			11/15/22 06:21	1
1,1,2-Trichloroethane	1.0	U H4	1.0	0.32	ug/L			11/15/22 06:21	1
1,1-Dichloroethane	1.3	H4 J	1.0	0.33	ug/L			11/15/22 06:21	1
1,1-Dichloroethene	1.0	U H4 UJ	1.0	0.33	ug/L			11/15/22 06:21	1
1,2,4-Trichlorobenzene	5.0	U *+ H4	5.0	0.53	ug/L			11/15/22 06:21	1
1,2-Dibromo-3-Chloropropane	5.0	U H4	5.0	1.8	ug/L			11/15/22 06:21	1
1,2-Dibromoethane	1.0	U H4	1.0	0.33	ug/L			11/15/22 06:21	1
1,2-Dichlorobenzene	1.0	U H4	1.0	0.31	ug/L			11/15/22 06:21	1
1,2-Dichloroethane	1.0	U H4	1.0	0.25	ug/L			11/15/22 06:21	1
1,2-Dichloropropane	1.0	U H4	1.0	0.22	ug/L			11/15/22 06:21	1
1,3-Dichlorobenzene	1.0	U H4	1.0	0.31	ug/L			11/15/22 06:21	1
1,4-Dichlorobenzene	1.0	U H4	1.0	0.31	ug/L			11/15/22 06:21	1
2-Butanone (MEK)	10	U H4	10	6.4	ug/L			11/15/22 06:21	1
2-Hexanone	10	U H4	10	3.2	ug/L			11/15/22 06:21	1
4-Methyl-2-pentanone (MIBK)	10	U H4	10	2.7	ug/L			11/15/22 06:21	1
Acetone	10	U H4	10	3.7	ug/L			11/15/22 06:21	1
Benzene	1.0	U H4	1.0	0.27	ug/L			11/15/22 06:21	1
Bromodichloromethane	1.0	U H4	1.0	0.25	ug/L			11/15/22 06:21	1
Bromoform	1.0	U H4	1.0	0.59	ug/L			11/15/22 06:21	1
Bromomethane	5.0	U H4	5.0	3.7	ug/L			11/15/22 06:21	1
Carbon disulfide	2.0	U H4	2.0	0.43	ug/L			11/15/22 06:21	1
Carbon tetrachloride	1.0	U H4	1.0	0.30	ug/L			11/15/22 06:21	1
Chlorobenzene	1.0	U H4	1.0	0.15	ug/L			11/15/22 06:21	1
Chloroethane	23	H4 J	5.0	4.6	ug/L			11/15/22 06:21	1
Chloroform	1.0	U H4 UJ	1.0	0.27	ug/L			11/15/22 06:21	1
Chloromethane	1.0	U H4 UJ	1.0	0.54	ug/L			11/15/22 06:21	1
cis-1,2-Dichloroethene	0.27	J H4 J	1.0	0.25	ug/L			11/15/22 06:21	1
cis-1,3-Dichloropropene	1.0	U H4 UJ	1.0	0.26	ug/L			11/15/22 06:21	1
Cyclohexane	1.0	U H4	1.0	0.28	ug/L			11/15/22 06:21	1
Dibromochloromethane	1.0	U H4	1.0	0.39	ug/L			11/15/22 06:21	1
Dichlorodifluoromethane	1.0	U H4	1.0	0.36	ug/L			11/15/22 06:21	1
Ethylbenzene	1.0	U H4	1.0	0.20	ug/L			11/15/22 06:21	1
Isopropylbenzene	1.0	U H4	1.0	0.26	ug/L			11/15/22 06:21	1
Methyl acetate	5.0	U H4	5.0	3.2	ug/L			11/15/22 06:21	1
Methyl tert-butyl ether	5.0	U H4	5.0	0.81	ug/L			11/15/22 06:21	1

Client Sample ID: MW-24-110222

Date Collected: 11/02/22 17:05
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U H4 UJ	1.0	0.33	ug/L			11/15/22 06:21	1
Methylene Chloride	**9.4**	**H4** UB J	5.0	3.2	ug/L			11/15/22 06:21	1
Styrene	1.0	U H4 UJ	1.0	0.27	ug/L			11/15/22 06:21	1
Tetrachloroethene	0.50	U H4 UJ	0.50	0.35	ug/L			11/15/22 06:21	1
Toluene	**4.2**	**H4** J	1.0	0.25	ug/L			11/15/22 06:21	1
trans-1,2-Dichloroethene	1.0	U H4 UJ	1.0	0.34	ug/L			11/15/22 06:21	1
trans-1,3-Dichloropropene	1.0	U H4	1.0	0.23	ug/L			11/15/22 06:21	1
Trichloroethene	1.0	U H4	1.0	0.20	ug/L			11/15/22 06:21	1
Trichlorofluoromethane	1.0	U H4	1.0	0.33	ug/L			11/15/22 06:21	1
Vinyl chloride	**1.8**	**H4** J	1.0	0.40	ug/L			11/15/22 06:21	1
Xylenes, Total	1.0	U H4 UJ	1.0	0.23	ug/L			11/15/22 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/15/22 06:21*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*11/15/22 06:21*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/15/22 06:21*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/15/22 06:21*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**63**		1.1	0.30	ug/L			11/14/22 17:20	1
Ethene	**22**		1.0	0.31	ug/L			11/14/22 17:20	1
Methane (TCD)	**16000**		390	59	ug/L			11/14/22 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**39**		1.0	0.43	mg/L			11/16/22 13:16	1
TOC Result 2 (SW846 9060A)	**39**		1.0	0.43	mg/L			11/16/22 13:16	1
TOC Result 3 (SW846 9060A)	**42**		1.0	0.43	mg/L			11/16/22 13:16	1
TOC Result 4 (SW846 9060A)	**40**		1.0	0.43	mg/L			11/16/22 13:16	1
Total Organic Carbon (SW846 9060A)	**40**		1.0	0.43	mg/L			11/16/22 13:16	1

Client Sample ID: FB-1-110222

Date Collected: 11/02/22 12:40
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 03:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 03:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 03:37	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 03:37	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 03:37	1
1,2,4-Trichlorobenzene	5.0	U *+ UJ	5.0	0.53	ug/L			11/15/22 03:37	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 03:37	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 03:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 03:37	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 03:37	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 03:37	1

Client Sample ID: FB-1-110222
Date Collected: 11/02/22 12:40
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 03:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 03:37	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 03:37	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 03:37	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 03:37	1
Acetone	10	U	10	3.7	ug/L			11/15/22 03:37	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 03:37	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 03:37	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 03:37	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 03:37	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 03:37	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 03:37	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 03:37	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 03:37	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 03:37	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 03:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 03:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 03:37	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 03:37	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 03:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 03:37	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 03:37	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 03:37	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 03:37	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 03:37	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 03:37	1
Methylene Chloride	**4.9**	**J**	5.0	3.2	ug/L			11/15/22 03:37	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 03:37	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 03:37	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 03:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 03:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 03:37	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 03:37	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 03:37	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/15/22 03:37	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/15/22 03:37*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*11/15/22 03:37*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/15/22 03:37*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/15/22 03:37*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.1	U	1.1	0.30	ug/L			11/14/22 17:33	1
Ethene	1.0	U	1.0	0.31	ug/L			11/14/22 17:33	1
Methane	**1.5**		0.58	0.57	ug/L			11/14/22 17:33	1

Client Sample ID: FB-1-110222

Lab Sample ID: 680-224805-10

Date Collected: 11/02/22 12:40

Matrix: Water

Date Received: 11/04/22 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**1.1**		1.0	0.43	mg/L			11/16/22 13:46	1
TOC Result 2 (SW846 9060A)	**0.78**	**J**	1.0	0.43	mg/L			11/16/22 13:46	1
TOC Result 3 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 13:46	1
TOC Result 4 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 13:46	1
Total Organic Carbon (SW846 9060A)	**0.55**	**J**	1.0	0.43	mg/L			11/16/22 13:46	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-224805-11

Date Collected: 11/02/22 00:00

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 04:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 04:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 04:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 04:00	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 04:00	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 04:00	1
1,2,4-Trichlorobenzene	5.0	U *+ UJ	5.0	0.53	ug/L			11/15/22 04:00	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/15/22 04:00	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 04:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:00	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 04:00	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 04:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 04:00	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 04:00	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 04:00	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 04:00	1
Acetone	10	U	10	3.7	ug/L			11/15/22 04:00	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 04:00	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 04:00	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 04:00	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 04:00	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 04:00	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 04:00	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 04:00	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 04:00	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 04:00	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 04:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 04:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 04:00	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 04:00	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 04:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 04:00	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 04:00	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 04:00	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 04:00	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 04:00	1

Client Sample ID: Trip Blank

Lab Sample ID: 680-224805-11

Date Collected: 11/02/22 00:00
Matrix: Water
Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 04:00	1
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/15/22 04:00	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 04:00	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 04:00	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 04:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 04:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 04:00	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 04:00	1
Trichlorofluoromethane	1.0	U UJ	1.0	0.33	ug/L			11/15/22 04:00	1
Vinyl chloride	1.0	U	1.0	0.40	ug/L			11/15/22 04:00	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/15/22 04:00*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/15/22 04:00*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/15/22 04:00*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/15/22 04:00*	*1*

Client Sample ID: MW-B1-110322

Lab Sample ID: 680-224805-12

Date Collected: 11/03/22 08:45
Matrix: Water
Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 15:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 15:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 15:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 15:34	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 15:34	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 15:34	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/15/22 15:34	1
1,2-Dibromo-3-Chloropropane	5.0	~~U F1 *~~ UJ	5.0	1.8	ug/L			11/15/22 15:34	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 15:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 15:34	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 15:34	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 15:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 15:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 15:34	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 15:34	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 15:34	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 15:34	1
Acetone	10	U	10	3.7	ug/L			11/15/22 15:34	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 15:34	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 15:34	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 15:34	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 15:34	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 15:34	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 15:34	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 15:34	1
Chloroethane	5.0	U ~~F1 *+~~	5.0	4.6	ug/L			11/15/22 15:34	1

Client Sample ID: MW-B1-110322
Date Collected: 11/03/22 08:45
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 15:34	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 15:34	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.25	ug/L			11/15/22 15:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 15:34	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 15:34	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 15:34	1
Dichlorodifluoromethane	1.0	U *+	1.0	0.36	ug/L			11/15/22 15:34	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 15:34	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 15:34	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 15:34	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 15:34	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 15:34	1
Methylene Chloride	**9.1**	UB	5.0	3.2	ug/L			11/15/22 15:34	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 15:34	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 15:34	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 15:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 15:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 15:34	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 15:34	1
Trichlorofluoromethane	1.0	U F1 *+	1.0	0.33	ug/L			11/15/22 15:34	1
Vinyl chloride	**5.5**		1.0	0.40	ug/L			11/16/22 13:06	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/15/22 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/16/22 13:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/15/22 15:34*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/16/22 13:06*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/15/22 15:34*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/16/22 13:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/15/22 15:34*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*11/16/22 13:06*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**43**		1.1	0.30	ug/L			11/16/22 15:11	1
Ethene	**4.0**		1.0	0.31	ug/L			11/16/22 15:11	1
Methane (TCD)	**4200**		390	59	ug/L			11/16/22 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**15**		1.0	0.43	mg/L			11/16/22 07:30	1
TOC Result 2 (SW846 9060A)	**14**		1.0	0.43	mg/L			11/16/22 07:30	1
TOC Result 3 (SW846 9060A)	**16**		1.0	0.43	mg/L			11/16/22 07:30	1
TOC Result 4 (SW846 9060A)	**14**		1.0	0.43	mg/L			11/16/22 07:30	1
Total Organic Carbon (SW846 9060A)	**15**		1.0	0.43	mg/L			11/16/22 07:30	1

Client Sample ID: IW-A2-110322

Date Collected: 11/03/22 09:00
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-13

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U H4 UJ	1.0	0.21	ug/L			11/16/22 13:25	1
1,1,2,2-Tetrachloroethane	1.0	U H4	1.0	0.40	ug/L			11/16/22 13:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U H4	1.0	0.23	ug/L			11/16/22 13:25	1
1,1,2-Trichloroethane	1.0	U H4	1.0	0.32	ug/L			11/16/22 13:25	1
1,1-Dichloroethane	1.0	U H4	1.0	0.33	ug/L			11/16/22 13:25	1
1,1-Dichloroethene	1.0	U H4	1.0	0.33	ug/L			11/16/22 13:25	1
1,2,4-Trichlorobenzene	5.0	U H4	5.0	0.53	ug/L			11/16/22 13:25	1
1,2-Dibromo-3-Chloropropane	5.0	U H4	5.0	1.8	ug/L			11/16/22 13:25	1
1,2-Dibromoethane	1.0	U H4	1.0	0.33	ug/L			11/16/22 13:25	1
1,2-Dichlorobenzene	1.0	U H4	1.0	0.31	ug/L			11/16/22 13:25	1
1,2-Dichloroethane	1.0	U H4	1.0	0.25	ug/L			11/16/22 13:25	1
1,2-Dichloropropane	1.0	U H4	1.0	0.22	ug/L			11/16/22 13:25	1
1,3-Dichlorobenzene	1.0	U H4	1.0	0.31	ug/L			11/16/22 13:25	1
1,4-Dichlorobenzene	1.0	U H4	1.0	0.31	ug/L			11/16/22 13:25	1
2-Butanone (MEK)	10	U H4	10	6.4	ug/L			11/16/22 13:25	1
2-Hexanone	10	U H4	10	3.2	ug/L			11/16/22 13:25	1
4-Methyl-2-pentanone (MIBK)	10	U H4	10	2.7	ug/L			11/16/22 13:25	1
Acetone	10	U H4	10	3.7	ug/L			11/16/22 13:25	1
Benzene	**8.7**	**H4** J	1.0	0.27	ug/L			11/16/22 13:25	1
Bromodichloromethane	1.0	U H4 UJ	1.0	0.25	ug/L			11/16/22 13:25	1
Bromoform	1.0	U H4	1.0	0.59	ug/L			11/16/22 13:25	1
Bromomethane	5.0	U H4	5.0	3.7	ug/L			11/16/22 13:25	1
Carbon disulfide	2.0	U H4	2.0	0.43	ug/L			11/16/22 13:25	1
Carbon tetrachloride	1.0	U H4	1.0	0.30	ug/L			11/16/22 13:25	1
Chlorobenzene	1.0	U H4	1.0	0.15	ug/L			11/16/22 13:25	1
Chloroethane	5.0	U *+ H4	5.0	4.6	ug/L			11/16/22 13:25	1
Chloroform	1.0	U H4	1.0	0.27	ug/L			11/16/22 13:25	1
Chloromethane	1.0	U H4	1.0	0.54	ug/L			11/16/22 13:25	1
cis-1,2-Dichloroethene	1.0	U H4	1.0	0.25	ug/L			11/16/22 13:25	1
cis-1,3-Dichloropropene	1.0	U H4	1.0	0.26	ug/L			11/16/22 13:25	1
Cyclohexane	**0.69**	**J H4** J	1.0	0.28	ug/L			11/16/22 13:25	1
Dibromochloromethane	1.0	U H4 UJ	1.0	0.39	ug/L			11/16/22 13:25	1
Dichlorodifluoromethane	1.0	U *- H4 UJ	1.0	0.36	ug/L			11/16/22 13:25	1
Ethylbenzene	1.0	U H4 UJ	1.0	0.20	ug/L			11/16/22 13:25	1
Isopropylbenzene	**3.4**	**H4** J	1.0	0.26	ug/L			11/16/22 13:25	1
Methyl acetate	5.0	U H4 UJ	5.0	3.2	ug/L			11/16/22 13:25	1
Methyl tert-butyl ether	5.0	U H4 UJ	5.0	0.81	ug/L			11/16/22 13:25	1
Methylcyclohexane	**0.65**	**J H4** J	1.0	0.33	ug/L			11/16/22 13:25	1
Methylene Chloride	5.0	U H4 UJ	5.0	3.2	ug/L			11/16/22 13:25	1
Styrene	1.0	U H4	1.0	0.27	ug/L			11/16/22 13:25	1
Tetrachloroethene	0.50	U H4	0.50	0.35	ug/L			11/16/22 13:25	1
Toluene	1.0	U H4	1.0	0.25	ug/L			11/16/22 13:25	1
trans-1,2-Dichloroethene	1.0	U H4	1.0	0.34	ug/L			11/16/22 13:25	1
trans-1,3-Dichloropropene	1.0	U H4	1.0	0.23	ug/L			11/16/22 13:25	1
Trichloroethene	1.0	U H4	1.0	0.20	ug/L			11/16/22 13:25	1
Trichlorofluoromethane	1.0	U H4	1.0	0.33	ug/L			11/16/22 13:25	1
Vinyl chloride	1.0	U H4	1.0	0.40	ug/L			11/16/22 13:25	1
Xylenes, Total	**6.9**	**H4** J	1.0	0.23	ug/L			11/16/22 13:25	1

Client Sample ID: IW-A2-110322

Date Collected: 11/03/22 09:00
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-13

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*11/16/22 13:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/16/22 13:25*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*11/16/22 13:25*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*11/16/22 13:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**81**		1.0	0.43	mg/L			11/16/22 19:59	1
TOC Result 2 (SW846 9060A)	**80**		1.0	0.43	mg/L			11/16/22 19:59	1
TOC Result 3 (SW846 9060A)	**83**		1.0	0.43	mg/L			11/16/22 19:59	1
TOC Result 4 (SW846 9060A)	**81**		1.0	0.43	mg/L			11/16/22 19:59	1
Total Organic Carbon (SW846 9060A)	**81**		1.0	0.43	mg/L			11/16/22 19:59	1

Client Sample ID: MW-23-110322

Date Collected: 11/03/22 10:05
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 15:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 15:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 15:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 15:53	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 15:53	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 15:53	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/15/22 15:53	1
1,2-Dibromo-3-Chloropropane	5.0	~~U~~ UJ	5.0	1.8	ug/L			11/15/22 15:53	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 15:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 15:53	1
1,2-Dichloroethane	**0.29**	**J**	1.0	0.25	ug/L			11/15/22 15:53	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 15:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 15:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 15:53	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 15:53	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 15:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 15:53	1
Acetone	10	U	10	3.7	ug/L			11/15/22 15:53	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 15:53	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 15:53	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 15:53	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 15:53	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 15:53	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 15:53	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 15:53	1
Chloroethane	5.0	~~U~~	5.0	4.6	ug/L			11/15/22 15:53	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 15:53	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 15:53	1
cis-1,2-Dichloroethene	**0.62**	**J**	1.0	0.25	ug/L			11/15/22 15:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 15:53	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 15:53	1

Client Sample ID: MW-23-110322

Date Collected: 11/03/22 10:05
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 15:53	1
Dichlorodifluoromethane	1.0	U *+	1.0	0.36	ug/L			11/15/22 15:53	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 15:53	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 15:53	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 15:53	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 15:53	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 15:53	1
Methylene Chloride	**4.2**	**J**	5.0	3.2 UB	ug/L			11/15/22 15:53	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 15:53	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 15:53	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 15:53	1
trans-1,2-Dichloroethene	**0.40**	**J**	1.0	0.34	ug/L			11/15/22 15:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 15:53	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 15:53	1
Trichlorofluoromethane	1.0	U *+	1.0	0.33	ug/L			11/15/22 15:53	1
Vinyl chloride	1.0	U *+	1.0	0.40	ug/L			11/15/22 15:53	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/15/22 15:53*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/15/22 15:53*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*11/15/22 15:53*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/15/22 15:53*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**220**		1.1	0.30	ug/L			11/14/22 17:46	1
Ethene	**8.6**		1.0	0.31	ug/L			11/14/22 17:46	1
Methane (TCD)	**21000**		390	59	ug/L			11/14/22 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**15**		1.0	0.43	mg/L			11/16/22 20:27	1
TOC Result 2 (SW846 9060A)	**13**		1.0	0.43	mg/L			11/16/22 20:27	1
TOC Result 3 (SW846 9060A)	**13**		1.0	0.43	mg/L			11/16/22 20:27	1
TOC Result 4 (SW846 9060A)	**13**		1.0	0.43	mg/L			11/16/22 20:27	1
Total Organic Carbon (SW846 9060A)	**14**		1.0	0.43	mg/L			11/16/22 20:27	1

Client Sample ID: MW-25-110322

Date Collected: 11/03/22 10:35
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/16/22 13:44	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/16/22 13:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/16/22 13:44	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/16/22 13:44	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/16/22 13:44	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/16/22 13:44	1

Client Sample ID: MW-25-110322

Date Collected: 11/03/22 10:35
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-15

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/16/22 13:44	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	1.8	ug/L			11/16/22 13:44	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/16/22 13:44	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/16/22 13:44	1
1,2-Dichloroethane	**1.8**		1.0	0.25	ug/L			11/16/22 13:44	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/16/22 13:44	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/16/22 13:44	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/16/22 13:44	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/16/22 13:44	1
2-Hexanone	10	U	10	3.2	ug/L			11/16/22 13:44	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/16/22 13:44	1
Acetone	**5.6**	**J**	10	3.7	ug/L			11/16/22 13:44	1
Benzene	**55**		1.0	0.27	ug/L			11/16/22 13:44	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/16/22 13:44	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/16/22 13:44	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/16/22 13:44	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/16/22 13:44	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/16/22 13:44	1
Chlorobenzene	**1.3**		1.0	0.15	ug/L			11/16/22 13:44	1
Chloroethane	**50**	~~**~~ J	5.0	4.6	ug/L			11/16/22 13:44	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/16/22 13:44	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/16/22 13:44	1
cis-1,2-Dichloroethene	**9.2**		1.0	0.25	ug/L			11/16/22 13:44	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/16/22 13:44	1
Cyclohexane	**0.71**	**J**	1.0	0.28	ug/L			11/16/22 13:44	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/16/22 13:44	1
Dichlorodifluoromethane	1.0	U~~*-~~ UJ	1.0	0.36	ug/L			11/16/22 13:44	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/16/22 13:44	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/16/22 13:44	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/16/22 13:44	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/16/22 13:44	1
Methylcyclohexane	**0.41**	**J**	1.0	0.33	ug/L			11/16/22 13:44	1
Methylene Chloride	~~**4.2**~~ ~~**J**~~		5.0 UB	3.2	ug/L			11/16/22 13:44	1
Styrene	1.0	U	1.0	0.27	ug/L			11/16/22 13:44	1
Tetrachloroethene	**4.7**		0.50	0.35	ug/L			11/16/22 13:44	1
Toluene	**0.97**	**J**	1.0	0.25	ug/L			11/16/22 13:44	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			11/16/22 13:44	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/16/22 13:44	1
Trichloroethene	**4.6**		1.0	0.20	ug/L			11/16/22 13:44	1
Trichlorofluoromethane	1.0	U	1.0	0.33	ug/L			11/16/22 13:44	1
Vinyl chloride	**6.1**		1.0	0.40	ug/L			11/16/22 13:44	1
Xylenes, Total	**0.35**	**J**	1.0	0.23	ug/L			11/16/22 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/16/22 13:44*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/16/22 13:44*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*11/16/22 13:44*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*11/16/22 13:44*	*1*

Client Sample ID: MW-25-110322

Lab Sample ID: 680-224805-15

Date Collected: 11/03/22 10:35

Matrix: Water

Date Received: 11/04/22 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**810**	D	11	3.0	ug/L			11/16/22 13:41	10
Ethene	**69**		1.0	0.31	ug/L			11/14/22 17:59	1
Methane (TCD)	**12000**		390	59	ug/L			11/14/22 17:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**11**		1.0	0.43	mg/L			11/16/22 21:25	1
TOC Result 2 (SW846 9060A)	**11**		1.0	0.43	mg/L			11/16/22 21:25	1
TOC Result 3 (SW846 9060A)	**11**		1.0	0.43	mg/L			11/16/22 21:25	1
TOC Result 4 (SW846 9060A)	**12**		1.0	0.43	mg/L			11/16/22 21:25	1
Total Organic Carbon (SW846 9060A)	**12**		1.0	0.43	mg/L			11/16/22 21:25	1

Client Sample ID: IW-B3-110322

Lab Sample ID: 680-224805-16

Date Collected: 11/03/22 11:20

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 16:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 16:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 16:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 16:13	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 16:13	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 16:13	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/15/22 16:13	1
1,2-Dibromo-3-Chloropropane	5.0	~~U *+~~ UJ	5.0	1.8	ug/L			11/15/22 16:13	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 16:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:13	1
1,2-Dichloroethane	**0.55**	**J**	1.0	0.25	ug/L			11/15/22 16:13	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 16:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:13	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 16:13	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 16:13	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 16:13	1
Acetone	10	U	10	3.7	ug/L			11/15/22 16:13	1
Benzene	**0.34**	**J**	1.0	0.27	ug/L			11/15/22 16:13	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 16:13	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 16:13	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 16:13	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 16:13	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 16:13	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 16:13	1
Chloroethane	5.0	~~U *+~~	5.0	4.6	ug/L			11/15/22 16:13	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 16:13	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 16:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 16:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 16:13	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 16:13	1

Client Sample ID: IW-B3-110322

Date Collected: 11/03/22 11:20
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 16:13	1
Dichlorodifluoromethane	1.0	U *+	1.0	0.36	ug/L			11/15/22 16:13	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 16:13	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 16:13	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 16:13	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 16:13	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 16:13	1
Methylene Chloride	**10**	UB	5.0	3.2	ug/L			11/15/22 16:13	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 16:13	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 16:13	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 16:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 16:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 16:13	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 16:13	1
Trichlorofluoromethane	1.0	U *+	1.0	0.33	ug/L			11/15/22 16:13	1
Vinyl chloride	1.0	U *+	1.0	0.40	ug/L			11/15/22 16:13	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/15/22 16:13*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/15/22 16:13*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*11/15/22 16:13*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/15/22 16:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**54**		1.0	0.43	mg/L			11/16/22 22:23	1
TOC Result 2 (SW846 9060A)	**55**		1.0	0.43	mg/L			11/16/22 22:23	1
TOC Result 3 (SW846 9060A)	**55**		1.0	0.43	mg/L			11/16/22 22:23	1
TOC Result 4 (SW846 9060A)	**56**		1.0	0.43	mg/L			11/16/22 22:23	1
Total Organic Carbon (SW846 9060A)	**55**		1.0	0.43	mg/L			11/16/22 22:23	1

Client Sample ID: FB-2-110322

Date Collected: 11/03/22 10:20
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 13:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 13:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 13:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 13:55	1
1,1-Dichloroethane	1.0	U	1.0	0.33	ug/L			11/15/22 13:55	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 13:55	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/15/22 13:55	1
1,2-Dibromo-3-Chloropropane	5.0	U *-	5.0	1.8	ug/L			11/15/22 13:55	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 13:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 13:55	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 13:55	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 13:55	1

UJ

Client Sample ID: FB-2-110322
Date Collected: 11/03/22 10:20
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 13:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 13:55	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 13:55	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 13:55	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 13:55	1
Acetone	10	U	10	3.7	ug/L			11/15/22 13:55	1
Benzene	1.0	U	1.0	0.27	ug/L			11/15/22 13:55	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 13:55	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 13:55	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 13:55	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 13:55	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 13:55	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 13:55	1
Chloroethane	5.0	U *+	5.0	4.6	ug/L			11/15/22 13:55	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 13:55	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 13:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 13:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 13:55	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 13:55	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 13:55	1
Dichlorodifluoromethane	1.0	U *+	1.0	0.36	ug/L			11/15/22 13:55	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 13:55	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 13:55	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 13:55	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 13:55	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 13:55	1
Methylene Chloride	**7.8**		5.0	3.2	ug/L			11/15/22 13:55	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 13:55	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 13:55	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 13:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 13:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 13:55	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 13:55	1
Trichlorofluoromethane	1.0	U *+	1.0	0.33	ug/L			11/15/22 13:55	1
Vinyl chloride	1.0	U *+	1.0	0.40	ug/L			11/15/22 13:55	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/15/22 13:55*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/15/22 13:55*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/15/22 13:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/15/22 13:55*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	1.1	U	1.1	0.30	ug/L			11/16/22 13:54	1
Ethene	1.0	U	1.0	0.31	ug/L			11/16/22 13:54	1
Methane	**0.79**		0.58	0.57	ug/L			11/16/22 13:54	1

Client Sample ID: FB-2-110322

Lab Sample ID: 680-224805-17

Date Collected: 11/03/22 10:20

Matrix: Water

Date Received: 11/04/22 10:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 22:53	1
TOC Result 2 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 22:53	1
TOC Result 3 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 22:53	1
TOC Result 4 (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 22:53	1
Total Organic Carbon (SW846 9060A)	1.0	U	1.0	0.43	mg/L			11/16/22 22:53	1

Client Sample ID: MW-A1-110322

Lab Sample ID: 680-224805-18

Date Collected: 11/03/22 12:00

Matrix: Water

Date Received: 11/04/22 10:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 16:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 16:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.23	ug/L			11/15/22 16:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 16:33	1
1,1-Dichloroethane	**0.40**	**J**	1.0	0.33	ug/L			11/15/22 16:33	1
1,1-Dichloroethene	1.0	U	1.0	0.33	ug/L			11/15/22 16:33	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/15/22 16:33	1
1,2-Dibromo-3-Chloropropane	5.0	~~U~~ UJ	5.0	1.8	ug/L			11/15/22 16:33	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 16:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:33	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 16:33	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 16:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:33	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 16:33	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 16:33	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 16:33	1
Acetone	10	U	10	3.7	ug/L			11/15/22 16:33	1
Benzene	**1.2**		1.0	0.27	ug/L			11/15/22 16:33	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 16:33	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 16:33	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 16:33	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 16:33	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 16:33	1
Chlorobenzene	**1.1**		1.0	0.15	ug/L			11/15/22 16:33	1
Chloroethane	5.0	U	5.0	4.6	ug/L			11/15/22 16:33	1
Chloroform	1.0	U	1.0	0.27	ug/L			11/15/22 16:33	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 16:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.25	ug/L			11/15/22 16:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 16:33	1
Cyclohexane	**0.28**	**J**	1.0	0.28	ug/L			11/15/22 16:33	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 16:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.36	ug/L			11/15/22 16:33	1
Ethylbenzene	1.0	U	1.0	0.20	ug/L			11/15/22 16:33	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 16:33	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 16:33	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 16:33	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 16:33	1

Client Sample ID: MW-A1-110322

Lab Sample ID: 680-224805-18

Date Collected: 11/03/22 12:00
Date Received: 11/04/22 10:30

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0	3.2	ug/L			11/15/22 16:33	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 16:33	1
Tetrachloroethene	0.50	U	0.50	0.35	ug/L			11/15/22 16:33	1
Toluene	1.0	U	1.0	0.25	ug/L			11/15/22 16:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.34	ug/L			11/15/22 16:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 16:33	1
Trichloroethene	1.0	U	1.0	0.20	ug/L			11/15/22 16:33	1
Trichlorofluoromethane	1.0	U *+	1.0	0.33	ug/L			11/15/22 16:33	1
Vinyl chloride	1.0	U *+	1.0	0.40	ug/L			11/15/22 16:33	1
Xylenes, Total	1.0	U	1.0	0.23	ug/L			11/15/22 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/15/22 16:33*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/15/22 16:33*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*11/15/22 16:33*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/15/22 16:33*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**220**		1.1	0.30	ug/L			11/16/22 14:06	1
Ethene	1.0	U	1.0	0.31	ug/L			11/16/22 14:06	1
Methane (TCD)	**13000**		390	59	ug/L			11/16/22 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**15**		1.0	0.43	mg/L			11/17/22 00:19	1
TOC Result 2 (SW846 9060A)	**14**		1.0	0.43	mg/L			11/17/22 00:19	1
TOC Result 3 (SW846 9060A)	**15**		1.0	0.43	mg/L			11/17/22 00:19	1
TOC Result 4 (SW846 9060A)	**15**		1.0	0.43	mg/L			11/17/22 00:19	1
Total Organic Carbon (SW846 9060A)	**15**		1.0	0.43	mg/L			11/17/22 00:19	1

Client Sample ID: MW-19-110322

Lab Sample ID: 680-224805-19

Date Collected: 11/03/22 13:25
Date Received: 11/04/22 10:30

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.21	ug/L			11/15/22 16:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.40	ug/L			11/15/22 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.65**	**J**	1.0	0.23	ug/L			11/15/22 16:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.32	ug/L			11/15/22 16:53	1
1,1-Dichloroethane	**22**		1.0	0.33	ug/L			11/15/22 16:53	1
1,1-Dichloroethene	**0.44**	**J**	1.0	0.33	ug/L			11/15/22 16:53	1
1,2,4-Trichlorobenzene	5.0	U	5.0	0.53	ug/L			11/15/22 16:53	1
1,2-Dibromo-3-Chloropropane	5.0	~~U *-~~ UJ	5.0	1.8	ug/L			11/15/22 16:53	1
1,2-Dibromoethane	1.0	U	1.0	0.33	ug/L			11/15/22 16:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:53	1
1,2-Dichloroethane	1.0	U	1.0	0.25	ug/L			11/15/22 16:53	1
1,2-Dichloropropane	1.0	U	1.0	0.22	ug/L			11/15/22 16:53	1

Client Sample ID: MW-19-110322

Date Collected: 11/03/22 13:25
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-19

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.31	ug/L			11/15/22 16:53	1
2-Butanone (MEK)	10	U	10	6.4	ug/L			11/15/22 16:53	1
2-Hexanone	10	U	10	3.2	ug/L			11/15/22 16:53	1
4-Methyl-2-pentanone (MIBK)	10	U	10	2.7	ug/L			11/15/22 16:53	1
Acetone	10	U	10	3.7	ug/L			11/15/22 16:53	1
Benzene	**7.2**		1.0	0.27	ug/L			11/15/22 16:53	1
Bromodichloromethane	1.0	U	1.0	0.25	ug/L			11/15/22 16:53	1
Bromoform	1.0	U	1.0	0.59	ug/L			11/15/22 16:53	1
Bromomethane	5.0	U	5.0	3.7	ug/L			11/15/22 16:53	1
Carbon disulfide	2.0	U	2.0	0.43	ug/L			11/15/22 16:53	1
Carbon tetrachloride	1.0	U	1.0	0.30	ug/L			11/15/22 16:53	1
Chlorobenzene	1.0	U	1.0	0.15	ug/L			11/15/22 16:53	1
Chloroethane	**280**	**E *+**	5.0	4.6	ug/L			11/15/22 16:53	1
Chloroform	**0.82**	**J**	1.0	0.27	ug/L			11/15/22 16:53	1
Chloromethane	1.0	U	1.0	0.54	ug/L			11/15/22 16:53	1
cis-1,2-Dichloroethene	**190**		1.0	0.25	ug/L			11/15/22 16:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.26	ug/L			11/15/22 16:53	1
Cyclohexane	1.0	U	1.0	0.28	ug/L			11/15/22 16:53	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			11/15/22 16:53	1
Dichlorodifluoromethane	**13**	***+** J	1.0	0.36	ug/L			11/15/22 16:53	1
Ethylbenzene	**0.31**	**J**	1.0	0.20	ug/L			11/15/22 16:53	1
Isopropylbenzene	1.0	U	1.0	0.26	ug/L			11/15/22 16:53	1
Methyl acetate	5.0	U	5.0	3.2	ug/L			11/15/22 16:53	1
Methyl tert-butyl ether	5.0	U	5.0	0.81	ug/L			11/15/22 16:53	1
Methylcyclohexane	1.0	U	1.0	0.33	ug/L			11/15/22 16:53	1
Methylene Chloride	**3.3**	**J**	5.0 UB	3.2	ug/L			11/15/22 16:53	1
Styrene	1.0	U	1.0	0.27	ug/L			11/15/22 16:53	1
Tetrachloroethene	**3.0**		0.50	0.35	ug/L			11/15/22 16:53	1
Toluene	**0.62**	**J**	1.0	0.25	ug/L			11/15/22 16:53	1
trans-1,2-Dichloroethene	**5.7**		1.0	0.34	ug/L			11/15/22 16:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	ug/L			11/15/22 16:53	1
Trichloroethene	**3.2**		1.0	0.20	ug/L			11/15/22 16:53	1
Trichlorofluoromethane	1.0	U *+	1.0	0.33	ug/L			11/15/22 16:53	1
Vinyl chloride	**450**	**E *+**	1.0	0.40	ug/L			11/15/22 16:53	1
Xylenes, Total	**0.33**	**J**	1.0	0.23	ug/L			11/15/22 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/15/22 16:53*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/15/22 16:53*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/15/22 16:53*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/15/22 16:53*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	**73**	**H** DJ	25	23	ug/L			11/18/22 19:23	5
Vinyl chloride	**150**	**H** DJ	5.0	2.0	ug/L			11/18/22 19:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*11/18/22 19:23*	*5*

Client Sample ID: MW-19-110322

Date Collected: 11/03/22 13:25
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/18/22 19:23*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/18/22 19:23*	*5*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/18/22 19:23*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**530**		1.1	0.30	ug/L			11/16/22 14:19	1
Ethene	**520**		1.0	0.31	ug/L			11/16/22 14:19	1
Methane (TCD)	**6000**		390	59	ug/L			11/16/22 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**6.9**		1.0	0.43	mg/L			11/17/22 01:18	1
TOC Result 2 (SW846 9060A)	**7.3**		1.0	0.43	mg/L			11/17/22 01:18	1
TOC Result 3 (SW846 9060A)	**7.1**		1.0	0.43	mg/L			11/17/22 01:18	1
TOC Result 4 (SW846 9060A)	**7.2**		1.0	0.43	mg/L			11/17/22 01:18	1
Total Organic Carbon (SW846 9060A)	**7.1**		1.0	0.43	mg/L			11/17/22 01:18	1

Client Sample ID: DUP-1-110322

Date Collected: 11/03/22 08:00
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.0	U	5.0	1.1	ug/L			11/15/22 18:54	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	2.0	ug/L			11/15/22 18:54	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	1.2	ug/L			11/15/22 18:54	5
1,1,2-Trichloroethane	5.0	U	5.0	1.6	ug/L			11/15/22 18:54	5
1,1-Dichloroethane	**18**		5.0	1.7	ug/L			11/15/22 18:54	5
1,1-Dichloroethene	5.0	U	5.0	1.7	ug/L			11/15/22 18:54	5
1,2,4-Trichlorobenzene	25	U	25	2.7	ug/L			11/15/22 18:54	5
1,2-Dibromo-3-Chloropropane	25	U *- UJ	25	9.0	ug/L			11/15/22 18:54	5
1,2-Dibromoethane	5.0	U	5.0	1.7	ug/L			11/15/22 18:54	5
1,2-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			11/15/22 18:54	5
1,2-Dichloroethane	5.0	U	5.0	1.3	ug/L			11/15/22 18:54	5
1,2-Dichloropropane	5.0	U	5.0	1.1	ug/L			11/15/22 18:54	5
1,3-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			11/15/22 18:54	5
1,4-Dichlorobenzene	5.0	U	5.0	1.6	ug/L			11/15/22 18:54	5
2-Butanone (MEK)	50	U	50	32	ug/L			11/15/22 18:54	5
2-Hexanone	50	U	50	16	ug/L			11/15/22 18:54	5
4-Methyl-2-pentanone (MIBK)	50	U	50	14	ug/L			11/15/22 18:54	5
Acetone	50	U	50	19	ug/L			11/15/22 18:54	5
Benzene	**5.8**		5.0	1.4	ug/L			11/15/22 18:54	5
Bromodichloromethane	5.0	U	5.0	1.3	ug/L			11/15/22 18:54	5
Bromoform	5.0	U	5.0	3.0	ug/L			11/15/22 18:54	5
Bromomethane	25	U	25	19	ug/L			11/15/22 18:54	5
Carbon disulfide	10	U	10	2.2	ug/L			11/15/22 18:54	5
Carbon tetrachloride	5.0	U	5.0	1.5	ug/L			11/15/22 18:54	5
Chlorobenzene	5.0	U	5.0	0.75	ug/L			11/15/22 18:54	5

Client Sample ID: DUP-1-110322

Date Collected: 11/03/22 08:00
Date Received: 11/04/22 10:30

Lab Sample ID: 680-224805-20

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	**210**	*+ J	25	23	ug/L			11/15/22 18:54	5
Chloroform	5.0	U	5.0	1.4	ug/L			11/15/22 18:54	5
Chloromethane	5.0	U	5.0	2.7	ug/L			11/15/22 18:54	5
cis-1,2-Dichloroethene	**160**		5.0	1.3	ug/L			11/15/22 18:54	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.3	ug/L			11/15/22 18:54	5
Cyclohexane	5.0	U	5.0	1.4	ug/L			11/15/22 18:54	5
Dibromochloromethane	5.0	U	5.0	2.0	ug/L			11/15/22 18:54	5
Dichlorodifluoromethane	**9.5**	*+ J	5.0	1.8	ug/L			11/15/22 18:54	5
Ethylbenzene	5.0	U	5.0	1.0	ug/L			11/15/22 18:54	5
Isopropylbenzene	5.0	U	5.0	1.3	ug/L			11/15/22 18:54	5
Methyl acetate	25	U	25	16	ug/L			11/15/22 18:54	5
Methyl tert-butyl ether	25	U	25	4.1	ug/L			11/15/22 18:54	5
Methylcyclohexane	5.0	U	5.0	1.7	ug/L			11/15/22 18:54	5
Methylene Chloride	25	U	25	16	ug/L			11/15/22 18:54	5
Styrene	5.0	U	5.0	1.4	ug/L			11/15/22 18:54	5
Tetrachloroethene	**2.1**	**J**	2.5	1.8	ug/L			11/15/22 18:54	5
Toluene	5.0	U	5.0	1.3	ug/L			11/15/22 18:54	5
trans-1,2-Dichloroethene	**3.9**	**J**	5.0	1.7	ug/L			11/15/22 18:54	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.2	ug/L			11/15/22 18:54	5
Trichloroethene	**2.3**	**J**	5.0	1.0	ug/L			11/15/22 18:54	5
Trichlorofluoromethane	5.0	U *+	5.0	1.7	ug/L			11/15/22 18:54	5
Xylenes, Total	5.0	U	5.0	1.2	ug/L			11/15/22 18:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/15/22 18:54*	*5*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/15/22 18:54*	*5*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/15/22 18:54*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/15/22 18:54*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**240**	J	5.0	2.0	ug/L			11/16/22 16:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/16/22 16:16*	*5*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/16/22 16:16*	*5*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/16/22 16:16*	*5*
Toluene-d8 (Surr)	*110*		*70 - 130*		*11/16/22 16:16*	*5*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	**550**		1.1	0.30	ug/L			11/16/22 14:32	1
Ethene	**540**		1.0	0.31	ug/L			11/16/22 14:32	1
Methane (TCD)	**6700**		390	59	ug/L			11/16/22 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SW846 9060A)	**6.6**		1.0	0.43	mg/L			11/17/22 02:16	1
TOC Result 2 (SW846 9060A)	**6.9**		1.0	0.43	mg/L			11/17/22 02:16	1
TOC Result 3 (SW846 9060A)	**6.9**		1.0	0.43	mg/L			11/17/22 02:16	1
TOC Result 4 (SW846 9060A)	**6.9**		1.0	0.43	mg/L			11/17/22 02:16	1

Client: Ashland LLC
Job ID: 680-224805-1
Project/Site: Ashland Rensselaer

Client Sample ID: DUP-1-110322
Lab Sample ID: 680-224805-20
Date Collected: 11/03/22 08:00
Matrix: Water
Date Received: 11/04/22 10:30

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon (SW846 9060A)	6.8		1.0	0.43	mg/L			11/17/22 02:16	1

Appendix B

Groundwater Monitoring Field Logs

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	IMP-3			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	51.1 degrees F and Light Rain and Fog/Mist. The wind is blowing NW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.18	**Total Depth (ft-bmp)**	18.3	**Water Column (ft)**	12.12	**Gallons in Well**	1.97
Purge Start	09:45	**Pump Intake (ft-bmp)**	16	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	10:30	**Volumes Purged**	1.02	**Sample ID**	IMP-3-041222	**Sampled by**	Emmanuel Sousa
Sample Time	10:25	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:50	0	0	250	6.70	--	6.42	1.56	31.2	4.7	9.8	-39	--	--
09:55	5	5	250	6.98	--	6.98	1.54	21.5	1.64	9.56	-67	--	--
10:00	5	10	250	7.26	--	6.64	1.53	20.6	1.39	9.51	-71	--	--
10:05	5	15	250	7.43	--	6.67	1.51	15.5	1.33	9.39	-73	--	--
10:10	5	20	250	7.52	--	6.67	1.49	14.5	1.18	9.45	-72	--	--
10:15	5	25	250	7.63	--	6.67	1.47	12.2	1.06	9.59	-71	--	--
10:20	5	30	250	7.70	--	6.67	1.45	10.6	1.01	9.5	-69	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments: VOCs sampled with Bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	IP-1			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	52.0 degrees F and Fog/Mist. The wind is blowing SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	3.82	**Total Depth (ft-bmp)**	18.47	**Water Column (ft)**	14.65	**Gallons in Well**	2.38
Purge Start	10:35	**Pump Intake (ft-bmp)**	16	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	11:25	**Volumes Purged**	0.84	**Sample ID**	IP-1-041222	**Sampled by**	Emmanuel Sousa
Sample Time	11:15	**Gallons Purged**	2.00	**Replicate/ Code No.**	DUP-1-041222	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:40	0	0	250	4.25	--	6.6	0.906	132	2.97	9.4	-97	--	--
10:45	5	5	250	4.39	--	6.63	0.891	117	1.57	9.69	-102	--	--
10:50	5	10	250	4.41	--	6.65	0.894	108	1.15	9.48	-104	--	--
10:55	5	15	250	4.44	--	6.67	0.891	90.7	0.98	9.2	-107	--	--
11:00	5	20	250	4.46	--	6.65	0.889	95.5	0.92	9.28	-107	--	--
11:05	5	25	250	4.48	--	6.66	0.889	98.4	0.87	9.41	-108	--	--
11:10	5	30	250	4.50	--	6.66	0.885	96.9	0.84	9.68	-110	Tan	None

Constituent Sampled	Container	Number	Preservative
RSK,Total Organic Carbon,VOCs	40 mL Glass	16	HCL

Comments: VOCs sampled with Bailer
DUP-1-041222 time stamped at 1100

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	IW-A2			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	64.9 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	Steel
Static Water Level (ft-bmp)	6.85	**Total Depth (ft-bmp)**	23.81	**Water Column (ft)**	16.96	**Gallons in Well**	2.76
Purge Start	14:30	**Pump Intake (ft-bmp)**	21.5	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	15:14	**Volumes Purged**	1.01	**Sample ID**	IW-A2-041222	**Sampled by**	Parker Eversoll
Sample Time	15:05	**Gallons Purged**	2.80	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:35	0	0	300	9.80	--	6.92	1.96	25	2.81	15.08	-147	--	--
14:40	5	5	300	10.99	--	6.93	1.93	48.8	2.25	15.48	-155	--	--
14:45	5	10	300	11.68	--	6.86	1.86	43.2	2.06	15.39	-152	--	--
14:50	5	15	300	13.29	--	6.8	1.94	26.5	1.95	14.68	-149	--	--
14:55	5	20	300	13.38	--	6.85	1.97	26.5	1.78	15.4	-152	--	--
15:00	5	25	300	13.38	--	6.82	1.99	24.7	1.73	15.36	-151	--	--
15:05	5	30	300	13.38	--	6.81	1.99	25.1	1.79	15.41	-152	Yellow	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments: VOCs collected by bailer.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	IW-B3			**Date**	04/13/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	55.0 degrees F and Mostly Cloudy. The wind is blowing SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	Steel
Static Water Level (ft-bmp)	1.84	**Total Depth (ft-bmp)**	15.39	**Water Column (ft)**	13.55	**Gallons in Well**	2.2
Purge Start	10:15	**Pump Intake (ft-bmp)**	16	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	11:01	**Volumes Purged**	1.14	**Sample ID**	IW-B3-041322	**Sampled by**	Parker Eversoll
Sample Time	11:00	**Gallons Purged**	2.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:21	0	0	350	3.43	--	6.72	1.57	64.3	2.57	9.03	-100	--	--
10:26	5	5	350	4.50	--	6.72	1.56	81.1	2.26	8.91	-108	--	--
10:31	5	10	250	5.17	--	6.7	1.56	55.2	2.12	9.1	-111	--	--
10:36	5	15	200	5.24	--	6.71	1.54	37.5	2.04	9.59	-114	--	--
10:41	5	20	200	5.24	--	6.72	1.54	30.7	2	9.76	-115	--	--
10:46	5	25	200	5.24	--	6.73	1.53	28.4	1.98	9.71	-118	--	--
10:51	5	30	200	5.22	--	6.72	1.53	26.7	1.93	9.75	-118	--	--
10:56	5	35	200	5.19	--	6.73	1.53	26	1.95	9.78	-120	Yellow	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments: VOCs collected by bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-13			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	51.1 degrees F and Light Rain and Fog/Mist. The wind is blowing NW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	Stainless Steel
Static Water Level (ft-bmp)	2.10	**Total Depth (ft-bmp)**	22.15	**Water Column (ft)**	20.05	**Gallons in Well**	3.26
Purge Start	09:21	**Pump Intake (ft-bmp)**	20	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	10:10	**Volumes Purged**	0.71	**Sample ID**	MW-13-041222	**Sampled by**	Parker Eversoll
Sample Time	10:05	**Gallons Purged**	2.30	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:28	0	0	200	4.60	--	7.02	0.8	0.4	2.65	9.95	95	--	--
09:33	5	5	200	5.24	--	7.18	0.802	0.1	2.55	9.85	75	--	--
09:38	5	10	200	5.86	--	7.23	0.801	0	2.43	10.06	55	--	--
09:43	5	15	200	6.70	--	7.27	0.802	1	2.34	10	38	--	--
09:48	5	20	200	6.84	--	7.28	0.799	0.4	2.27	10.15	28	--	--
09:53	5	25	200	7.16	--	7.24	0.801	0.4	2.22	10.21	19	--	--
09:58	5	30	200	7.68	--	7.31	0.801	0.5	2.18	10.15	10	--	--
10:03	5	35	200	8.11	--	7.31	0.801	0.1	2.14	10.19	14	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments: VOCs collected with bailer.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:	Near south st slope	Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-16			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	63.0 degrees F and Mostly Clear. The wind is blowing W at 16.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.85	**Total Depth (ft-bmp)**	16.64	**Water Column (ft)**	10.79	**Gallons in Well**	1.75
Purge Start	12:35	**Pump Intake (ft-bmp)**	14	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	13:20	**Volumes Purged**	0.86	**Sample ID**	MW-16-041222	**Sampled by**	Emmanuel Sousa
Sample Time	13:15	**Gallons Purged**	1.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:40	0	0	200	7.58	--	6.86	1.52	2.4	3.02	8.83	59	--	--
12:45	5	5	200	8.09	--	6.78	1.51	2.3	1.45	8.84	66	--	--
12:50	5	10	200	8.97	--	6.74	1.51	1.7	1.08	8.78	76	--	--
12:55	5	15	200	9.60	--	6.73	1.51	1.1	0.97	8.94	82	--	--
13:00	5	20	200	10.01	--	6.73	1.51	1.1	0.94	9.12	86	--	--
13:05	5	25	200	10.30	--	6.73	1.51	1	0.88	9.21	89	--	--
13:10	5	30	200	10.58	--	6.73	1.51	1	0.86	9.34	91	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments: VOCs sampled with Bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-17			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	64.9 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.88	**Total Depth (ft-bmp)**	17.7	**Water Column (ft)**	11.82	**Gallons in Well**	1.92
Purge Start	15:10	**Pump Intake (ft-bmp)**	15	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	16:30	**Volumes Purged**	2.08	**Sample ID**	MW-17-041222	**Sampled by**	Emmanuel Sousa
Sample Time	16:30	**Gallons Purged**	4.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
15:15	0	0	200	7.05	--	7.08	0.155	133	5.24	11.11	57	--	--
15:20	5	5	200	7.45	--	6.92	0.173	108	3.28	11.13	42	--	--
15:25	5	10	200	7.72	--	6.81	0.23	82.9	2.68	11.13	24	--	--
15:30	5	15	200	7.91	--	6.75	0.336	68.3	2.31	11.15	12	--	--
15:35	5	20	200	8.05	--	6.73	0.448	56	2	11.16	2	--	--
15:40	5	25	200	8.18	--	6.72	0.55	46.9	1.74	11.19	-6	--	--
15:45	5	30	200	8.25	--	6.71	0.634	37.6	1.57	11.22	-13	--	--
15:50	5	35	200	8.30	--	6.72	0.707	33	1.45	11.25	-18	--	--
15:55	5	40	200	8.33	--	6.73	0.795	27.9	1.33	11.29	-23	--	--
16:00	5	45	200	8.35	--	6.73	0.852	24.9	1.25	11.26	-25	--	--
16:05	5	50	200	8.57	--	6.73	0.915	21.4	1.13	11.18	-29	--	--
16:10	5	55	200	8.65	--	6.73	0.969	18.6	1.06	11.22	-32	--	--
16:15	5	60	200	8.70	--	6.74	1.05	15.3	0.99	11.22	-34	--	--
16:20	5	65	200	8.77	--	6.74	1.07	14.5	0.94	11.22	-37	--	--
16:25	5	70	200	8.77	--	6.75	1.08	14.2	0.91	11.22	-38	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments: VOCs sampled with Bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-18			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	Partly cloudy 58°F			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	3.79	**Total Depth (ft-bmp)**	17.96	**Water Column (ft)**	14.17	**Gallons in Well**	2.3
Purge Start	11:30	**Pump Intake (ft-bmp)**	16	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	12:25	**Volumes Purged**	1.16	**Sample ID**	MW-18-041222	**Sampled by**	Emmanuel Sousa
Sample Time	12:20	**Gallons Purged**	2.66	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:35	0	0	250	4.84	--	6.7	1.1	61.2	4.82	9.08	43	--	--
11:40	5	5	250	5.48	--	6.68	1.11	60.5	2.51	9	45	--	--
11:45	5	10	250	6.17	--	6.62	1.11	54.8	1.34	8.98	47	--	--
11:50	5	15	250	6.70	--	6.61	1.11	49.2	1.13	9.14	41	--	--
11:55	5	20	250	7.11	--	6.6	1.1	41.9	1.01	9.28	29	--	--
12:00	5	25	250	7.48	--	6.63	1.09	44.2	0.97	9.88	19	--	--
12:05	5	30	250	7.70	--	6.62	1.07	42.7	0.91	10.32	-2	--	--
12:10	5	35	250	7.97	--	6.61	1.06	43.4	0.88	10.33	-6	--	--
12:15	5	40	250	8.21	--	6.61	1.06	41.8	0.85	10.3	-10	Tan	None

Constituent Sampled	Container	Number	Preservative
RSK,Total Organic Carbon,VOCs	40 mL Glass	8	HCL

Comments: VOCs sampled with Bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-19			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	57.0 degrees F and Mostly Cloudy. The wind is blowing W/SW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	4	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	1.77	**Total Depth (ft-bmp)**	17.5	**Water Column (ft)**	15.73	**Gallons in Well**	10.22
Purge Start	11:10	**Pump Intake (ft-bmp)**	15.2	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	12:25	**Volumes Purged**	0.46	**Sample ID**	MW-19-041222	**Sampled by**	Parker Eversoll
Sample Time	12:00	**Gallons Purged**	4.70	**Replicate/ Code No.**	MS-041222/MSD-041222	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:17	0	0	350	2.06	--	7.06	1.64	28.3	3.02	9.4	-156	--	--
11:22	5	5	300	2.50	--	7.07	1.64	11	2.59	9.42	-163	--	--
11:27	5	10	320	2.49	--	7.08	1.63	17.5	2.39	9.53	-166	--	--
11:32	5	15	320	2.49	--	7.03	1.62	14.1	2.26	9.59	-165	--	--
11:38	6	21	320	2.55	--	7.04	1.62	13.5	2.15	9.62	-166	--	--
11:43	5	26	320	2.55	--	7.19	1.62	10.8	2.24	9.64	-166	--	--
11:48	5	31	320	2.90	--	7.1	1.61	11	2.13	9.97	-166	--	--
11:53	5	36	320	2.90	--	7.04	1.61	11.2	2.09	9.83	-168	--	--
11:57	4	40	320	2.90	--	7.11	1.61	11.4	2.05	9.93	-171	Clear	None

Constituent Sampled	Container	Number	Preservative
Ethane,Ethene,Methane,Total Or	40 mL Glass	24	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location: Near tracks
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-20			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	64.9 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	1.46	**Total Depth (ft-bmp)**	11.92	**Water Column (ft)**	10.46	**Gallons in Well**	1.7
Purge Start	15:45	**Pump Intake (ft-bmp)**	10	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	16:32	**Volumes Purged**	1.47	**Sample ID**	MW-20-041222	**Sampled by**	Parker Eversoll
Sample Time	16:30	**Gallons Purged**	2.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
15:50	0	0	150	1.57	--	6.86	0.578	12.8	1.43	18.2	-40	--	--
15:57	7	7	200	1.60	--	6.89	0.404	6.6	1.39	17.03	-30	--	--
16:01	4	11	250	1.62	--	6.98	0.414	3.9	1.46	16.34	-26	--	--
16:05	4	15	250	1.62	--	6.93	0.424	2.5	1.45	15.95	-20	--	--
16:10	5	20	250	1.62	--	6.88	0.425	2.3	1.46	15.84	-15	--	--
16:15	5	25	250	1.62	--	6.82	0.428	2.2	1.5	15.43	-9	--	--
16:20	5	30	250	1.62	--	6.77	0.431	1.6	1.52	15.43	-8	--	--
16:25	5	35	250	1.62	--	6.87	0.425	1.8	1.5	15.5	-12	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:	Near tracks	Well Locked at Arrival:	yes
Condition of Well:	Good condition	Well Locked at Departure:	yes
Well Completion:	Flush mount	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-21			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	63.0 degrees F and Mostly Clear. The wind is blowing W at 16.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.27	**Total Depth (ft-bmp)**	14.91	**Water Column (ft)**	7.64	**Gallons in Well**	1.24
Purge Start	14:20	**Pump Intake (ft-bmp)**	12	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	15:05	**Volumes Purged**	1.21	**Sample ID**	MW-21-041222	**Sampled by**	Emmanuel Sousa
Sample Time	15:00	**Gallons Purged**	1.50	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:25	0	0	200	7.72	0.00	7.07	1.32	12.3	7.1	10.2	149	--	--
14:30	5	5	200	7.96	--	6.97	1.31	7.7	6	9.81	158	--	--
14:35	5	10	200	8.19	--	6.93	1.3	7.2	5.96	9.81	162	--	--
14:40	5	15	200	8.38	--	6.9	1.32	5.8	5.84	9.79	165	--	--
14:45	5	20	200	8.61	--	6.89	1.33	4.6	5.79	9.74	165	--	--
14:50	5	25	200	8.79	--	6.88	1.34	3.5	5.61	9.93	166	--	--
14:55	5	30	200	9.00	--	6.87	1.36	3.5	5.51	9.95	166	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Organic Carbon,VOCs	40 mL Glass	5	HCL

Comments: VOCs sampled with Bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-23			**Date**	04/13/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	46.9 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	4	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.72	**Total Depth (ft-bmp)**	30.51	**Water Column (ft)**	23.79	**Gallons in Well**	15.46
Purge Start	09:01	**Pump Intake (ft-bmp)**	28	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	09:53	**Volumes Purged**	0.27	**Sample ID**	MW-23-041322	**Sampled by**	Parker Eversoll
Sample Time	09:50	**Gallons Purged**	4.20	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:06	0	0	300	7.25	--	6.45	1.29	3.9	3.84	9.83	7	--	--
09:11	5	5	300	7.89	--	6.56	1.28	4	3.92	9.85	-22	--	--
09:16	5	10	300	8.49	--	6.59	1.28	4.3	3.24	9.83	-33	--	--
09:21	5	15	300	8.97	--	6.61	1.28	4.3	3.01	9.92	-39	--	--
09:26	5	20	300	9.48	--	6.62	1.28	4.4	2.78	9.98	-44	--	--
09:31	5	25	300	9.94	--	6.63	1.28	4.5	2.6	10.07	-46	--	--
09:36	5	30	300	10.41	--	6.63	1.28	4.6	2.48	10.19	-48	--	--
09:41	5	35	300	10.97	--	6.63	1.28	4.7	2.35	10.22	-50	--	--
09:47	6	41	300	10.97	--	6.62	1.28	4.6	2.25	10.33	-50	Red/pink tint	None

Constituent Sampled	Container	Number	Preservative
Ethane,Ethene,Methane,Total Or	40 mL Glass	8	HCL

Comments: VOCs collected by bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:
Condition of Well: Good condition
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-24			**Date**	04/13/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	46.9 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	4	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.23	**Total Depth (ft-bmp)**	25.79	**Water Column (ft)**	19.56	**Gallons in Well**	12.71
Purge Start	09:00	**Pump Intake (ft-bmp)**	22	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	10:00	**Volumes Purged**	0.24	**Sample ID**	MW-24-041322	**Sampled by**	Emmanuel Sousa
Sample Time	09:50	**Gallons Purged**	3.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:05	0	0	250	6.62	--	6.22	2.68	26.2	5.64	9.67	-64	--	--
09:10	5	5	250	6.98	--	6.34	2.68	27.1	1.79	10.02	-82	--	--
09:15	5	10	250	7.39	--	6.36	2.68	26.2	1.62	10.06	-85	--	--
09:20	5	15	250	7.84	--	6.35	2.67	25.6	1.48	10.2	-87	--	--
09:25	5	20	250	8.18	--	6.38	2.67	27	1.32	10.25	-90	--	--
09:30	5	25	250	8.49	--	6.4	2.67	26.1	1.27	10.34	-92	--	--
09:35	5	30	250	8.79	--	6.4	2.66	27.5	1.15	10.44	-93	--	--
09:40	5	35	250	9.22	--	6.42	2.67	25.8	1.1	10.52	-95	--	--
09:45	5	40	250	9.40	--	6.4	2.64	26.3	1.07	10.43	-91	Pink	Evo odor

Constituent Sampled	Container	Number	Preservative
RSK,Total Organic Carbon,VOCs	40 mL Glass	8	HCL

Comments: VOCs sampled with bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Flush mount

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-25			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	66.0 degrees F and Mostly Clear.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	1.40	**Total Depth (ft-bmp)**	20.77	**Water Column (ft)**	19.37	**Gallons in Well**	3.15
Purge Start	17:10	**Pump Intake (ft-bmp)**	18.5	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	18:03	**Volumes Purged**	0.86	**Sample ID**	MW-25-041222	**Sampled by**	Parker Eversoll
Sample Time	17:55	**Gallons Purged**	2.70	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
17:15	0	0	250	2.53	--	6.74	2.22	4.1	2.49	12.67	-54	--	--
17:20	5	5	250	2.80	--	6.72	2.2	4.7	2.14	12.08	-65	--	--
17:25	5	10	250	2.80	--	6.7	2.21	3.5	2.02	12.04	-68	--	--
17:30	5	15	250	2.73	--	6.67	2.22	2.3	1.97	11.76	-70	--	--
17:35	5	20	250	2.73	--	6.72	2.08	4.7	1.92	11.4	-75	--	--
17:41	6	26	250	2.73	--	6.85	2.05	5	2.03	10.99	-80	--	--
17:45	4	30	250	2.73	--	6.8	2.06	5.3	1.94	10.68	-82	--	--
17:50	5	35	250	2.73	--	6.77	2.06	6	1.88	10.69	-82	Orange	None

Constituent Sampled	Container	Number	Preservative
Ethane,Ethene,Methane,Total Or	40 mL Glass	8	HCL

Comments: VOCs collected by bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Flush mount

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-A1			**Date**	04/12/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	61.0 degrees F and Mostly Cloudy.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.48	**Total Depth (ft-bmp)**	22.4	**Water Column (ft)**	17.92	**Gallons in Well**	2.91
Purge Start	12:45	**Pump Intake (ft-bmp)**	20	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	13:33	**Volumes Purged**	1.10	**Sample ID**	MW-A1-041222	**Sampled by**	Parker Eversoll
Sample Time	13:25	**Gallons Purged**	3.20	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:50	0	0	300	5.89	--	6.82	1.78	16.9	3.44	9.92	-90	--	--
12:55	5	5	300	5.98	--	6.8	1.79	11.1	2.84	10.25	-93	--	--
13:00	5	10	300	6.09	--	6.75	1.79	11.4	2.52	10.32	-94	--	--
13:05	5	15	300	6.15	--	6.74	1.78	10.5	2.22	10.39	-97	--	--
13:10	5	20	300	6.23	--	6.72	1.77	10.4	2.13	10.5	-100	--	--
13:15	5	25	300	6.37	--	6.74	1.76	8.9	2.04	10.34	-100	--	--
13:20	5	30	300	6.51	--	6.75	1.77	7.9	1.98	10.4	-103	--	--
13:25	5	35	300	6.51	--	6.78	1.77	8.3	1.94	10.48	-104	Clear	None

Constituent Sampled	Container	Number	Preservative
Ethane,Ethene,Methane,Total Or	40 mL Glass	8	HCL

Comments: VOCs collected by bailer.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:	Near tracks	Well Locked at Arrival:	no
Condition of Well:	Good condition	Well Locked at Departure:	no
Well Completion:	Stick-up	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS

Project Number	30110230	**Well ID**	MW-B1			**Date**	04/13/2022
Project Name/Location	Ashland Rensselaer		**Weather(°F)**	52.0 degrees F and Mostly Cloudy. The wind is blowing SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.82	**Total Depth (ft-bmp)**	21.52	**Water Column (ft)**	16.7	**Gallons in Well**	2.71
Purge Start	10:15	**Pump Intake (ft-bmp)**	18	**Purge Method**	Low-Flow	**Purge Equipment**	peristaltic and bailer
Purge End	11:05	**Volumes Purged**	0.74	**Sample ID**	MW-B1-041322	**Sampled by**	Emmanuel Sousa
Sample Time	11:00	**Gallons Purged**	2.00	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:20	0	0	250	6.05	--	6.56	2.41	17.2	1.99	8.42	-69	--	--
10:25	5	5	250	6.18	--	6.57	2.39	11.5	1.38	8.49	-73	--	--
10:30	5	10	250	6.26	--	6.56	2.41	10.3	1.26	8.53	-75	--	--
10:35	5	15	250	6.36	--	6.56	2.4	8.1	1.17	8.66	-76	--	--
10:40	5	20	250	6.49	--	6.56	2.4	6.5	1.09	8.74	-78	--	--
10:45	5	25	250	6.46	--	6.56	2.4	6.9	1.04	8.84	-78	--	--
10:50	5	30	250	6.46	--	6.55	2.4	6.3	1.01	8.93	-78	Clear	None

Constituent Sampled	Container	Number	Preservative
RSK,Total Organic Carbon,VOCs	40 mL Glass	8	HCL

Comments: VOCs sampled with bailer

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot — 1 = 0.04; 1.5 = 0.09; 2.5 = 0.26; 3.5 = 0.50; 6 = 1.47
1.25 = 0.06; 2 = 0.16; 3 = 0.37; 4 = 0.65

Well Information

Well Location:

Condition of Well: Good condition

Well Completion: Stick-up

Well Locked at Arrival: yes

Well Locked at Departure: yes

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Site: Ashland Ren. | Event: 2H

GROUNDWATER SAMPLING LOG

Sampling Personnel: PH
Well ID: IP-1
Client / Job Number: 30152940
Date: 11-02-2022
Weather: 55 Sunny
Time In: 1050 Time Out: 1200

Well Information

Depth to Water:	(feet)	5.08	(from MP)
Total Depth:	(feet)	18.71	(from MP)
Length of Water Column:	(feet)	13.33	
Volume of Water in Well:	(gal)	2.17	
Intake depth for tubing:	(feet)	16	

Well Type:	Flushmount	☐	Stick-Up	☒	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	(2")	Other:		

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon ☐	Other:	
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon ☐	Other:	
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon ☐	Other:	

Pump Start Time: 1100
Pump Stop Time: 1140
Water-Quality Meter Type: Horiba
Total Volume Removed: 2.5 (gal)
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1100	1105	1110	1115	1120	1125	1130		
Volume Purged (Gal)	0	0.4	0.8	1.2	1.6	2.0	2.4		
Rate (mL/min)	300	300	300	300	300	300	300		
Depth to Water (ft.)	5.30	5.63	5.79	5.82	5.89	5.90	5.90		
pH	7.23	7.16	7.17	7.17	7.16	7.16	7.15		
Temp. (C)	18.88	17.95	17.59	17.58	17.66	17.63	18.68		
Conductivity (mS/cm)	0.930	0.894	0.905	0.905	0.905	0.907	0.902		
Dissolved Oxygen (mg/L)	5.52	1.88	0.82	0.74	0.70	0.63	0.90		
ORP (mV)	-78	-96	-97	-98	-101	-101	-104		
Turbidity (NTU)	12.0	12.2	14.3	13.6	13.0	15.0	16.2		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOC	3		TA
TOC	2		TA
RSK	3		TA

Color: Tan
Odor: None
Appearance: Small suspended solids
Sample ID: IP-1-110222022 Sample Time: 1135
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial water clear, No odor, No color

VOCs collected using bailer

Site: Ashland Ren. | Event: 2H

GROUNDWATER SAMPLING LOG

Sampling Personnel: PH
Well ID: IMP-5
Client / Job Number: 30152940
Date: 11-02-2022
Weather: 60 Sunny
Time In: 1210 Time Out: 1320

Well Information

Depth to Water:	(feet)	7.88	(from MP)
Total Depth:	(feet)	18.26	(from MP)
Length of Water Column:	(feet)	10.38	
Volume of Water in Well:	(gal)	1.69	
Intake depth for tubing:	(feet)	16	

Well Type:	Flushmount ☐		Stick-Up ☒	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	(2)	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	1225					
Pump Stop Time:	1300	Water-Quality Meter Type:	Horiba			
Total Volume Removed:	1.75 (gal)	Did well go dry:	Yes ☐	No ☒		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1225	1230	1235	1240	1245	1250	1255		
Volume Purged (Gal)	0	.25	.50	.75	1.00	1.25	1.5		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	8.83	8.98	9.43	9.63	9.89	10.00	10.27		
pH	7.24	7.17	7.15	7.13	7.14	7.07	7.08		
Temp. (C)	20.82	19.02	14.43	18.22	16.67	16.47	16.24		
Conductivity (mS/cm)	1.57	1.60	1.62	1.63	1.68	1.68	1.70		
Dissolved Oxygen (mg/L)	3.53	1.13	0.91	0.96	0.74	0.71	0.64		
ORP (mV)	-37	-60	-55	-55	-56	-56	-71		
Turbidity (NTU)	2.3	2.2	2.2	2.2	5.0	8.4	7.8		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOC	3		TA
TOC	2		TA
—	—		—

Color:	Clear
Odor:	None
Appearance:	Clear
Sample ID:	IMP3-110222022 Sample Time: 1255
MS/MSD:	Yes ☐ No ☒
Duplicate:	Yes ☐ No ☒
Duplicate ID	— Dup. Time: —
Chain of Custody Signed By:	ES

Problems / Observations

Initial water clear, No odor, No color

VOCs sampled with bailer

Site: Ashland Rep.

GROUNDWATER SAMPLING LOG

Event: 2H

Sampling Personnel: JH
Client / Job Number: 30152940
Weather: 78°F Sunny

Well ID: EW-A2
Date: 11-03-2022
Time In: 0810 Time Out: 0905

Well Information

Depth to Water:	(feet) 7.75	(from MP)
Total Depth:	(feet) 23.80	(from MP)
Length of Water Column:	(feet) 16.05	
Volume of Water in Well:	(gal) 2.61	
Intake depth for tubing:	(feet) ~21'	

Well Type:	Flushmount ☐		Stick-Up ☑	
Well Material:	Stainless Steel ☒		PVC ☐	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☑	Monsoon ☐	Other:		
Pump Start Time:	0815					
Pump Stop Time:	0905	Water-Quality Meter Type:	Horiba	U52		
Total Volume Removed:	(gal) ~2.4	Did well go dry:	Yes ☐	No ☒		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	0825	0830	0835	0840	0845	0850	0855		
Volume Purged (Gal)	0	0.4	0.8	1.2	1.6	2.0	2.4		
Rate (mL/min)	300	300	300	300	300	300	300		
Depth to Water (ft.)	9.25	9.66	11.78	13.24	14.48	15.40	16.57		
pH	7.05	7.05	7.02	7.00	6.98	6.97	6.95		
Temp. (C)	12.74	13.83	14.09	14.06	14.02	13.91	14.00		
Conductivity (mS/cm)	2.55	2.58	2.61	2.60	2.61	2.67	2.64		
Dissolved Oxygen (mg/L)	2.43	1.48	0.80	0.71	0.63	0.58	0.54		
ORP (mV)	-158	-168	-172	-171	-171	-172	-172		
Turbidity (NTU)	31.8	21.8	24.9	25.0	20.9	21.3	21.2		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOC	3		TA
TOC	2		TA

Color: Slightly Tan
Odor: EVO odor
Appearance: Clear
Sample ID: EW-A2-110322 Sample Time: 0900
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial water slightly tan murky large sediment chunks and strong odor

* VOCs collected w/ bailer

Site: Ashland Ren.

GROUNDWATER SAMPLING LOG

Event: 24

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: Sunny 47°F

Well ID: IW-B3
Date: 11/3/22
Time In: 1040 Time Out: 1125

Well Information

Depth to Water:	(feet) 2.15	(from MP)
Total Depth:	(feet) 15.37	(from MP)
Length of Water Column:	(feet) 13.22	
Volume of Water in Well:	(gal) 2.15	
Intake depth for tubing:	(feet) ~16'	

Well Type:	Flushmount	☐	Stick-Up	☒	
Well Material:	Stainless Steel	☒	PVC	☐	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	(2)	Other:		

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon	☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon	☐	Other:

Pump Start Time: 1040
Pump Stop Time: 1125
Total Volume Removed: (gal)
Water-Quality Meter Type: Horiba U52
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1045	1050	1055	1100	1105	1110	1115		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	2.69	3.24	3.56	4.00	4.55	4.96	5.22		
pH	6.70	6.73	6.73	6.72	6.72	6.74	6.74		
Temp. (C)	12.84	13.34	13.55	13.69	13.82	13.92	13.99		
Conductivity (mS/cm)	1.10	1.09	1.08	1.08	1.08	1.07	1.07		
Dissolved Oxygen (mg/L)	3.56	1.12	0.76	0.65	0.60	0.54	0.51		
ORP (mV)	-123	-131	-135	-137	-139	-140	-142		
Turbidity (NTU)	5.3	2.3	2.3	2.6	2.5	2.5	2.5		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	3		TA
TOC	2		TA

Color: Slightly Brown/Tan
Odor: EVO odor
Appearance: Clear
Sample ID: IW-B3-110322 Sample Time: 1120
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial: Slightly Brown/Tan, EVO odor, clear

* VOCs collected w/ Bailer

Site: Ashland Ren. | Event: ZH

GROUNDWATER SAMPLING LOG

Sampling Personnel: PH | Well ID: MW-A1
Client / Job Number: 30152940 | Date: 11-03-2022
Weather: 57° Sunny | Time In: 1105 | Time Out: 1210

Well Information

Depth to Water:	(feet)	4.97	(from MP)
Total Depth:	(feet)	22.39	(from MP)
Length of Water Column:	(feet)	17.42	
Volume of Water in Well:	(gal)	2.83	
Intake depth for tubing:	(feet)	~20'	

Well Type:	Flushmount	☐	Stick-Up	☒	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☑	No	☐	
Well Diameter:	1"	(2")	Other:		

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon	☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☑	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☑	Monsoon	☐	Other:

Pump Start Time: 1122
Pump Stop Time: 1210 | Water-Quality Meter Type: Horiba U52
Total Volume Removed: 2 (gal) | Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1125	1130	1135	1140	1145	1150	1155	1200	
Volume Purged (Gal)	0	.25	.50	.75	1.00	1.25	1.50	1.75	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	5.58	5.87	5.96	6.04	6.10	6.15	6.23	6.27	
pH	7.22	7.06	7.04	7.00	6.99	7.02	6.99	6.98	
Temp. (C)	15.32	15.35	15.34	15.34	15.41	15.49	15.55	15.58	
Conductivity (mS/cm)	1.83	1.83	1.87	1.82	1.81	1.81	1.81	1.80	
Dissolved Oxygen (mg/L)	2.87	0.89	0.71	0.59	0.51	0.44	0.40	0.37	
ORP (mV)	-73	-97	-100	-105	-107	-107	-107	-108	
Turbidity (NTU)	6.0	1.9	1.0	0.3	0.2	1.9	0.3	0.0	
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOC	3		TA
TOC	2		TA
RSK	3		TA

Color: Clear
Odor: None
Appearance: Clear
Sample ID: MW-A1-110322 | Sample Time: 1200
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — | Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial: water clear, No odor, No color

VOCs collected with bailer

Site: Ashland Ren. | Event: 2H

GROUNDWATER SAMPLING LOG

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: Sunny 38°F

Well ID: MW-B1
Date: 11/3/22
Time In: 0800 Time Out: 0855

Well Information

Depth to Water:	(feet)	5.55	(from MP)
Total Depth:	(feet)	21.52	(from MP)
Length of Water Column:	(feet)	15.97	
Volume of Water in Well:	(gal)	2.60	
Intake depth for tubing:	(feet)	~18'	

Well Type:	Flushmount ☐		Stick-Up ☒	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		

Pump Start Time: 0805
Pump Stop Time: 0855
Water-Quality Meter Type: Horiba U52
Total Volume Removed: (gal) ~1.50
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	0810	0815	0820	0825	0830	0835	0840		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	6.27	6.55	6.67	6.68	6.73	6.78	6.79		
pH	6.95	7.08	7.10	7.12	7.09	7.08	7.06		
Temp. (C)	11.17	12.71	13.05	13.28	13.44	13.71	13.88		
Conductivity (mS/cm)	2.42	2.33	2.35	2.37	2.39	2.42	2.44		
Dissolved Oxygen (mg/L)	3.34	1.61	1.29	1.02	0.82	0.74	0.68		
ORP (mV)	-26	-58	-65	-70	-74	-79	-82		
Turbidity (NTU)	5.3	5.5	4.3	4.3	1.7	1.4	1.6		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	9		TA
TOCs	6		↓
RSK	9		↓
Color: None			
Odor: EVO odor			
Appearance: Clear			
Sample ID: MW-B1-110322 Sample Time: 0845			
MS/MSD: Yes ☒ No ☐			
Duplicate: Yes ☐ No ☒			
Duplicate ID — Dup. Time: —			
Chain of Custody Signed By: ES			

Problems / Observations

Initial: Clear, EVO odor, No Color

* VOCs collected w/ Bailer
* MS/MSD collected.

Site: Ashland Ren.

GROUNDWATER SAMPLING LOG

Event: 2H

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: Sunny 68°F

Well ID: MW-13
Date: 11/2/22
Time In: 1525 Time Out: 1610

Well Information

Depth to Water:	(feet)	3.73	(from MP)
Total Depth:	(feet)	22.11	(from MP)
Length of Water Column:	(feet)	18.38	
Volume of Water in Well:	(gal)	2.99	
Intake depth for tubing:	(feet)	~20'	

Well Type:	Flushmount ☐	Stick-Up ☒		
Well Material:	Stainless Steel ☒	PVC ☐		
Well Locked:	Yes ☒	No ☐		
Measuring Point Marked:	Yes ☑	No ☐		
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☒	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	1525					
Pump Stop Time:	1610	Water-Quality Meter Type:	Horiba U52			
Total Volume Removed:	(gal) ~1.50	Did well go dry:	Yes ☐	No ☒		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1530	1535	1540	1545	1550	1555	1600		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	3.82	4.43	4.89	5.36	5.84	6.25	6.68		
pH	7.38	7.33	7.31	7.30	7.29	7.30	7.31		
Temp. (C)	14.45	14.20	14.09	13.99	13.94	13.88	13.82		
Conductivity (mS/cm)	0.792	0.783	0.775	0.770	0.768	0.766	0.763		
Dissolved Oxygen (mg/L)	3.03	1.99	1.27	1.00	0.82	0.73	0.67		
ORP (mV)	-4	-25	-36	-42	-45	-47	-48		
Turbidity (NTU)	0.3	0.1	0	0	0	0	0		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	3		TA
TOCs	2		TA

Color: None
Odor: None
Appearance: Clear
Sample ID: MW-13-110222 Sample Time: 1605
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial: Clear, No odor, No Color

*VOCs collected w/ bailer

Site: Ashland Ref. | Event: ZH

GROUNDWATER SAMPLING LOG

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: 62°F Sunny

Well ID: MW-16
Date: 11/2/22
Time In: 1130 Time Out: 1215

Well Information

Depth to Water:	(feet)	7.57	(from MP)
Total Depth:	(feet)	16.63	(from MP)
Length of Water Column:	(feet)	9.06	
Volume of Water in Well:	(gal)	1.47	
Intake depth for tubing:	(feet)	~14'	

Well Type:	Flushmount	☐	Stick-Up	☒	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	(2)	Other:		

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon ☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon ☐	Other:

Pump Start Time: 1130
Pump Stop Time: 1215
Water-Quality Meter Type: Horiba U52
Total Volume Removed: (gal) ~1.50
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1135	1140	1145	1150	1155	1200	1205		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	8.41	9.23	9.88	10.29	10.82	11.30	11.79		
pH	7.25	7.24	7.18	7.18	7.20	7.21	7.22		
Temp. (C)	16.28	16.34	16.35	16.37	16.33	16.27	16.23		
Conductivity (mS/cm)	1.79	1.79	1.78	1.72	1.67	1.65	1.64		
Dissolved Oxygen (mg/L)	3.01	1.75	1.08	0.94	1.02	1.07	1.11		
ORP (mV)	-81	-85	-69	-60	-52	-49	-45		
Turbidity (NTU)	0.9	0.4	0.1	0	0.1	0	0		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	3		TA
TOCs	2		TA

Color: None
Odor: None
Appearance: Clear
Sample ID: MW-16-110222 Sample Time: 1210
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial: Clear, No Odor, No Color

* VOCs collected using bailer

Site: Ashland Ren.

GROUNDWATER SAMPLING LOG

Event: 24

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: 54°F Sunny

Well ID: MW-17
Date: 11/2/22
Time In: 0930 Time Out: 1025

Well Information

Depth to Water:	(feet)	6.35	(from MP)
Total Depth:	(feet)	17.84	(from MP)
Length of Water Column:	(feet)	11.49	
Volume of Water in Well:	(gal)	1.87	
Intake depth for tubing:	(feet)	~15'	

Well Type:	Flushmount	☒	Stick-Up	☐	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	(2)	Other:		

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon	☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon	☐	Other:

Pump Start Time: 0935
Pump Stop Time: 1025
Water-Quality Meter Type: Horiba U52
Total Volume Removed: (gal) 1.75
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	0940	0945	0950	0955	1000	1005	1010	1015	
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	7.24	7.57	7.71	8.08	8.25	8.98	18.61	8.83	
pH	6.95	7.05	7.06	7.04	7.04	7.05	7.05	7.06	
Temp. (C)	17.38	17.51	17.55	17.67	17.69	17.68	17.67	17.65	
Conductivity (mS/cm)	2.37	2.31	2.23	2.07	2.03	1.99	1.98	1.97	
Dissolved Oxygen (mg/L)	3.38	2.48	1.36	1.03	0.89	0.80	0.73	0.69	
ORP (mV)	-68	-80	-113	-154	-184	-192	-196	-201	
Turbidity (NTU)	17.2	16.1	13.6	13.2	13.3	9.1	8.2	8.4	
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	3		TA
TOCs	2		TA

Color: None
Odor: Sulfur Slight
Appearance: Clear
Sample ID: MW-17-110222 Sample Time: 1020
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial: Clear, Sulfur Odor, No Color

Site: Ashland, Neb. | Event: 2H

GROUNDWATER SAMPLING LOG

Sampling Personnel: PH
Client / Job Number: 30152940
Weather: 55 sunny

Well ID: MW-18
Date: 11-2-2022
Time In: 0930 Time Out: 1030

Well Information

Depth to Water:	(feet)	5.40	(from MP)
Total Depth:	(feet)	17.95	(from MP)
Length of Water Column:	(feet)	12.55	
Volume of Water in Well:	(gal)	2.04	
Intake depth for tubing:	(feet)	16	

Well Type:	Flushmount	☐	Stick-Up	☒	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"		2"		Other:

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon ☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon ☐	Other:

Pump Start Time: 0935
Pump Stop Time: 1025
Water-Quality Meter Type: Horiba
Total Volume Removed: 3 (gal)
Did well go dry: Yes ☐ No ☑

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	0935	0940	0945	0955	1000	1005	1010	1015	
Volume Purged (Gal)	0	0.40	0.80	1.20	1.60	2.0	2.40	2.80	
Rate (mL/min)	300	300	300	300	300	300	300	300	
Depth to Water (ft.)	5.40	7.65	8.56	8.08	8.90	9.20	9.55	9.68	
pH	7.15	7.20	7.09	7.09	7.25	7.13	7.07	7.07	
Temp. (C)	15.29	14.43	15.67	16.17	15.69	15.88	15.83	15.97	
Conductivity (mS/cm)	1.04	1.04	1.05	1.10	1.17	1.17	1.17	1.16	
Dissolved Oxygen (mg/L)	2.43	1.85	1.39	1.81	4.35	2.30	1.03	0.91	
ORP (mV)	261	239	20	-14	-24	-38	-53	-57	
Turbidity (NTU)	4.1	2.5	1.7	0.4	0.1	0.5	0.2	0.2	
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOC	3		TA
TOC	2		TA
RSK	3		TA

Color: Clear
Odor: none
Appearance: clear
Sample ID: MW18110220222 Sample Time: 1020
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: —

Problems / Observations

Initial water clear, no odor, no color

VOC collected with bailer

Site: Ashland Ren. | Event: 2H

GROUNDWATER SAMPLING LOG

Sampling Personnel: PH
Client / Job Number: 301 52940
Weather: Sunny 65oF

Well ID: MW-19
Date: 11/3/22
Time In: 1235 Time Out: 1330

Well Information

Depth to Water:	(feet)	2.41	(from MP)
Total Depth:	(feet)	17.34	(from MP)
Length of Water Column:	(feet)	14.93	
Volume of Water in Well:	(gal)	9.74	
Intake depth for tubing:	(feet)	~15'	

Well Type:	Flushmount	☒	Stick-Up	☐	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☐	No	☒	
Measuring Point Marked:	Yes	☐	No	☒	
Well Diameter:	1"	☒	Other:	(4")	

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon	☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon	☐	Other:

Pump Start Time: 1235
Pump Stop Time: 1330
Water-Quality Meter Type: Horiba U52
Total Volume Removed: (gal) ~1.75
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1240	1245	1250	1255	1300	1305	1315	1320	
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50	1.75	
Rate (mL/min)	200	200	200	200	200	200	200	200	
Depth to Water (ft.)	3.33	3.38	3.53	3.60	3.65	3.87	3.90		
pH	7.22	7.21	7.20	7.20	7.19	7.20	7.19	7.17	
Temp. (C)	15.36	15.24	15.21	15.12	14.95	14.97	14.89	14.88	
Conductivity (mS/cm)	1.26	1.24	1.24	1.25	1.25	1.26	1.27	1.27	
Dissolved Oxygen (mg/L)	0.41	0.30	0.28	0.26	0.26	0.26	0.25	0.24	
ORP (mV)	-107	-108	-107	-107	-108	-107	-110	-109	
Turbidity (NTU)	24.6	10.9	7.3	5.7	12.6	6.0	5.4	5.4	
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	6		TA
TOCs	4		↓
RSK	6		↓

Color: None
Odor: None
Appearance: Clear
Sample ID: AW-19-110322 Sample Time: 1325
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☒ No ☐
Duplicate ID: DUP-1-110322 Dup. Time: 0800
Chain of Custody Signed By: ES

Problems / Observations

Initial: No Color, No Odor, Clear

* VOCs sampled w/ bailer.

* DUP-1-110322 collected here ↳ timestamped @ 0800

Site: Ashland Ren. | Event: ZH

GROUNDWATER SAMPLING LOG

Sampling Personnel: PH
Client / Job Number: 30152940
Weather: 68 Sunny

Well ID: MW-20
Date: 11-02-2022
Time In: 1540 Time Out: 1635

Well Information

Depth to Water:	(feet)	1.89	(from MP)
Total Depth:	(feet)	11.95	(from MP)
Length of Water Column:	(feet)	10.06	
Volume of Water in Well:	(gal)	1.64	
Intake depth for tubing:	(feet)	10	

Well Type:	Flushmount	☒	Stick-Up	☐	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☐	No	☒	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	(2")	Other:		

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon ☐	Other:	
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon ☐	Other:	
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon ☐	Other:	

Pump Start Time: 1545
Pump Stop Time: 1625
Water-Quality Meter Type: Horiba
Total Volume Removed: 1.75 (gal)
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1545	1550	1555	1600	1605	1610	1615		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	1.89	2.06	2.06	2.07	2.08	2.05	2.07		
pH	6.97	7.17	7.18	7.18	7.18	7.18	7.18		
Temp. (C)	16.22	15.52	15.16	14.98	14.75	14.65	14.63		
Conductivity (mS/cm)	0.997	1.02	1.04	1.06	1.08	1.08	1.08		
Dissolved Oxygen (mg/L)	5.07	1.62	1.14	1.01	0.88	0.82	0.76		
ORP (mV)	-31	-39	-48	-46	-41	-41	-44		
Turbidity (NTU)	3.4	5.2	5.0	3.5	2.1	2.5	1.4		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOC	3		TA
TOC	2		TA

Color: clear
Odor: none
Appearance: clear
Sample ID: MW-20-110222 Sample Time: 1620
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial water clear, No odor, No color

VOCs collected with bailer

Site: Ashland Ren

GROUNDWATER SAMPLING LOG

Event: 24

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: Sunny 59°F

Well ID: MW-21
Date: 11/2/22
Time In: 1045 Time Out: 1130

Well Information

Depth to Water:	(feet)	10.50	(from MP)
Total Depth:	(feet)	14.90	(from MP)
Length of Water Column:	(feet)	4.40	
Volume of Water in Well:	(gal)	0.71	
Intake depth for tubing:	(feet)	~14'	

Well Type:	Flushmount	☐	Stick-Up	☒	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	②	Other:		

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon	☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon	☐	Other:

Pump Start Time: 1045
Pump Stop Time: 1130
Water-Quality Meter Type: Horiba U52
Total Volume Removed: (gal) ~1.50
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1050	1055	1100	1105	1110	1115	1120		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	10.73	11.08	11.25	11.43	11.57	11.70	11.82		
pH	6.85	6.82	6.79	6.80	6.77	6.80	6.81		
Temp. (C)	14.50	14.53	14.55	14.51	14.56	14.56	14.58		
Conductivity (mS/cm)	1.99	1.98	1.98	1.98	2.00	2.00	2.00		
Dissolved Oxygen (mg/L)	3.45	1.51	1.12	0.96	0.82	0.79	0.75		
ORP (mV)	-58	-57	-63	-66	-68	-72	-76		
Turbidity (NTU)	6.1	5.6	4.1	3.0	3.0	2.0	1.9		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	3		TA
TOCs	2		TA

Color: Clear
Odor: None
Appearance: Clear
Sample ID: MW-21-110222 Sample Time: 1125
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial: Clear, No Odor, No Color

* VOCs collected using bailer

Site: Ashland Ren.

GROUNDWATER SAMPLING LOG

Event: 2H

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: Sunny 42°F

Well ID: MW-23
Date: 11/3/22
Time In: 0910 Time Out: 1010

Well Information

Depth to Water:	(feet)	7.63	(from MP)
Total Depth:	(feet)	30.56	(from MP)
Length of Water Column:	(feet)	22.93	
Volume of Water in Well:	(gal)	14.97	
Intake depth for tubing:	(feet)	~28'	

Well Type:	Flushmount	☐	Stick-Up	☒	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	2"	Other:	4"	

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon	☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon	☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon	☐	Other:

Pump Start Time: 0925
Pump Stop Time: 1010
Water-Quality Meter Type: Horiba U52
Total Volume Removed: (gal)
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	0930	0935	0940	0945	0950	0955	1000		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	7.93	8.24	8.46	8.66	8.89	9.06	9.24		
pH	6.89	6.88	6.87	6.89	6.89	6.89	6.89		
Temp. (C)	12.57	12.97	13.13	13.22	13.34	13.44	13.59		
Conductivity (mS/cm)	1.34	1.30	1.28	1.25	1.24	1.24	1.23		
Dissolved Oxygen (mg/L)	2.63	1.10	0.82	0.70	0.62	0.59	0.55		
ORP (mV)	-94	-109	-111	-113	-120	-118	-125		
Turbidity (NTU)	0.6	0.9	1.3	1.6	1.5	1.5	1.4		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	3		TA
TOCs	2		↓
RSK	3		↓
Color:			
Odor:			
Appearance:			
Sample ID: MW-23-110322	Sample Time: 1005		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID —	Dup. Time: —		
Chain of Custody Signed By: ES			

Problems / Observations

Initial: Slightly Pink, Evo odor, Clear

* VOCs collected w/ bailer.

Site: Ashland Ren.

GROUNDWATER SAMPLING LOG

Event: 2H

Sampling Personnel: ES
Client / Job Number: 30152940
Weather: Sunny 68°F

Well ID: MW-24
Date: 11/2/22
Time In: 1625 Time Out: 1710

Well Information

Depth to Water:	(feet)	7.10	(from MP)
Total Depth:	(feet)	25.75	(from MP)
Length of Water Column:	(feet)	18.65	
Volume of Water in Well:	(gal)	12.17	
Intake depth for tubing:	(feet)	~22'	

Well Type:	Flushmount	☒	Stick-Up	☐	
Well Material:	Stainless Steel	☐	PVC	☒	
Well Locked:	Yes	☒	No	☐	
Measuring Point Marked:	Yes	☒	No	☐	
Well Diameter:	1"	2"	Other:	4"	

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon ☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon ☐	Other:

Pump Start Time: 1625
Pump Stop Time: 1710
Water-Quality Meter Type: Horiba U52
Total Volume Removed: (gal) ~1.50
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1630	1635	1640	1645	1650	1655	1700		
Volume Purged (Gal)	0	0.25	0.50	0.75	1.00	1.25	1.50		
Rate (mL/min)	200	200	200	200	200	200	200		
Depth to Water (ft.)	7.32	7.74	7.93	8.17	8.45	8.61	8.96		
pH	6.86	6.93	6.93	6.94	6.94	6.95	6.96		
Temp (C)	17.29	17.59	17.62	17.70	17.72	17.70	17.73		
Conductivity (mS/cm)	3.18	3.30	3.34	3.33	3.34	3.33	3.31		
Dissolved Oxygen (mg/L)	3.87	1.38	1.09	0.72	0.63	0.61	0.55		
ORP (mV)	-125	-135	-137	-136	-135	-136	-137		
Turbidity (NTU)	28.7	28.5	28.8	29.3	29.7	28.7	28.0		
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs	3		TA
TOCs	2		↓
RSK	3		↓
Color: Slightly Pink			
Odor: EVO odor			
Appearance: Clear			
Sample ID: MW-24-110222	Sample Time: 1705		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID: —	Dup. Time: —		
Chain of Custody Signed By: ES			

Problems / Observations

Initial: Slightly Pink, EVO odor, Clear

* VOCs collected w/ bailer.

Site: Ashland, Rev

GROUNDWATER SAMPLING LOG

Event: 7H

Sampling Personnel: PH
Client / Job Number: 30152940
Weather: 47°F Sunny

Well ID: MW-25
Date: 11-03-2021
Time In: 0940 Time Out: 1040

Well Information

Depth to Water:	(feet)	1.89	(from MP)
Total Depth:	(feet)	20.81	(from MP)
Length of Water Column:	(feet)	18.92	
Volume of Water in Well:	(gal)	3.08	
Intake depth for tubing:	(feet)	~18'	

Well Type:	Flushmount	☒	Stick-Up	☐
Well Material:	Stainless Steel	☐	PVC	☒
Well Locked:	Yes	☐	No	☒
Measuring Point Marked:	Yes	☒	No	☐
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer	☐	Peristaltic	☒	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel	☐	Polyethylene	☒	Teflon ☐	Other:
Sampling Method:	Bailer	☒	Peristaltic	☒	Monsoon ☐	Other:

Pump Start Time: 0950
Pump Stop Time: 1040
Total Volume Removed: 2.25 (gal)
Water-Quality Meter Type: Horiba U52
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	0950	0955	1000	1005	1010	1015	1020	1025	1030
Volume Purged (Gal)	0	.25	.50	.75	1.0	1.25	1.50	1.75	2.00
Rate (mL/min)	200	200	200	200	200	200	200	200	200
Depth to Water (ft.)	4.16	4.32	4.65	4.73	4.79	4.89	4.95	5.10	
pH	6.90	6.89	6.94	6.95	6.94	6.94	7.05	6.96	6.94
Temp. (C)	16.48	16.69	16.87	16.88	16.94	16.98	17.00	17.07	17.06
Conductivity (mS/cm)	2.25	2.25	2.07	1.96	1.99	2.01	2.10	2.17	2.15
Dissolved Oxygen (mg/L)	1.50	0.82	0.67	0.58	0.55	0.51	0.57	0.49	0.44
ORP (mV)	-63	-78	-107	-111	-110	-109	-107	-107	-107
Turbidity (NTU)	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOC	3		TA
TOC	2		TA
RSK	3		TA

Color: None
Odor: None
Appearance: clear
Sample ID: Sample Time: 1035
MS/MSD: Yes ☒ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: — Dup. Time: —
Chain of Custody Signed By: ES

Problems / Observations

Initial: No Color, No Odor, Clear.

* VOCs collected w/ bailer

Appendix C

2022 Annual Site Inspection and Photo Log

Appendix F

Site-wide Inspection Form
Ashland Rensselaer Site
Rensselaer, New York

Semiannual Inspection Checklist/Weather Event Inspection

Month November 3rd

Year 2022

1. Check integrity of the asphalt surfaces and building footers – document any changes with photos and comments below. Add specific comments/date/initials:

- cracks in asphalt present @ South	11/3/22	ES
end of site. Consistent w/ previous inspection.		
- Gravel in area near culvert	11/3/22	ES
is holding well. Some Gravel Added.		

2. Check condition of perimeter fence – document any changes with photos and comments below. Comments/date/initials:

- ~1ft gaps @ bottom of Western	11/3/22	ES
fenceline.		
- Vegetation along fenceline under control	11/3/22	ES
- Fenceline recently repaired near	11/3/22	ES
main gate. Now in great shape.		

3. Check current site usage (if changed) – document any changes with photos and comments below. Comments/date/initials:

- No Changes in site usage.	11/3/22	ES

4. Check monitoring well conditions on and offsite – document any changes with photos and comments below. Comments/date/initials:

- MW conditions are good and	11/3/22	ES
consistent w/ previous inspections		
- MWs 125, 120 + 11 abandoned	11/3/22	ES
in April 2022.		

5. Check that site records are up to date (HASP/CAMP, Environmental Easement, Annual CMI Reports) – document any changes with photos and comments below. Comments/date/initials:

- Site records are up to date.	11/3/22	ES

6. Please check the status of the building near monitoring well MW-17, if it remains vacant or not. Please document any new businesses, or activities that are occurring inside the building. Comments/date/initials:

- Building is occupied by Walter S. Pratt Rental Co.
Multiple people regularly work out of this building.
Contact: Steven Pratt (518) 465-1549 11/3/22 ES

ARCADIS Design & Consultancy for natural and built assets

2022 Site Inspection: Former Ashland Facility - Rensselaer

Project: Former Ashland Facility - Rensselaer	Location: 130 South Street, Rensselaer, NY	Project No. 30059651

Onsite looking east toward South Street at one of the entrances. Minor cracks and vegetation growth observed at the southern end of the site.

Photo taken of a former building foundation in the southern portion of the site.

ARCADIS Design & Consultancy for natural and built assets	2022 Site Inspection: Former Ashland Facility- Rensselaer	
Project: Former Ashland Facility - Rensselaer	**Location: 130 South Street, Rensselaer, NY**	**Project No.** 30059651

Collapsed asphalt near the culvert continues to be maintained with Type 2 crusher run gravel.

View facing north onsite. This region has thicker vegetation growth however overall is in good condition.

ARCADIS Design & Consultancy for natural and built assets	2022 Site Inspection: Former Ashland Facility- Rensselaer	
Project: Former Ashland Facility - Rensselaer	**Location: 130 South Street, Rensselaer, NY**	**Project No.** 30059651

View of storage shed onsite.

View of the fence line along the train tracks facing north. Fence is in good condition, however; there is a gap below the fence in a few areas.

ARCADIS Design & Consultancy for natural and built assets	2022 Site Inspection: Former Ashland Facility- Rensselaer	
Project: Former Ashland Facility - Rensselaer	**Location: 130 South Street, Rensselaer, NY**	**Project No.** 30059651

View of the fence line along South Street facing north, following repairs and debris removal along the fence.

View of the fence line along South Street facing south.

ARCADIS Design & Consultancy for natural and built assets	2022 Site Inspection: Former Ashland Facility - Rensselaer	
Project: Former Ashland Facility - Rensselaer	**Location: 130 South Street, Rensselaer, NY**	**Project No.** 30059651

View of the fence from outside of the property facing north along South Street.

View of the southwest corner of the site below Columbia Turnpike Overpass. The fence in this area remains in good condition.

Appendix D

Institutional and Engineering Controls Certification Form

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

Site Details **Box 1**

Site No. 442038

Site Name Former Ashland Distribution Facility

Site Address: 130 South Street Zip Code: 12144
City/Town: Rensselaer
County: Rensselaer
Site Acreage: 4.8

Reporting Period: January 1, 2022 to December 31, 2022

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Inactive	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☐	☒

Deed restrictions (Environmental Easement) have not been executed yet pending approval between NYSDEC and Ashland Inc. Therefore, a corrective action work plan is not required at this time.

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

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

Ian McCary
Remediation Project Manager-Ashland Inc.

Signature of Owner, Remedial Party or Designated Representative

3/31/2023
Date

Description of Institutional Controls

(Note: These ICs remain draft until the Site Management Plan and Environmental Easement are finalized)

- The property may be used for commercial or industrial use (residential use is prohibited);
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or Rensselaer County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Groundwater monitoring must be performed semiannually as defined in this SMP until monitoring indicates the remedy has achieved the remedial action objectives identified in the CMI Work Plan;
- Soil vapor monitoring must be performed if groundwater concentrations increase from current levels in any area downgradient of the site;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Inspection of the perimeter fence will be conducted annually and maintained as needed;
- Inspection of the asphalt and concrete surfaces that cover portions of the site will be completed annually and maintained as needed;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restriction identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any building developed in the area within the IC boundaries and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited.

Description of Engineering Controls

Box 4

(Note: These ECs remain draft until the Site Management Plan and Environmental Easement are finalized)

- Cover

Exposure to remaining contamination at the site is prevented by a cover system placed over the site. This cover system is comprised of asphalt pavement, concrete-covered sidewalks and driveways, and concrete building slabs in the southern portion of the site.

- Perimeter Fencing

A seven feet tall chain link fence with three access gates (two double gates on South Street and single man-size gate under the Columbia Turnpike Bridge near the south west corner is maintained to prevent access to onsite soils and unsafe areas of the site.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

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

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

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

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

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

YES	NO
☒	☐

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

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

Ian McCary

Remediation Project Manager - Ashland Inc.

Signature of Owner, Remedial Party or Designated Representative

3/31/2023

Date

IC CERTIFICATIONS
SITE NO.

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Ian McCary at 500 Hercules Road, Bldg 8145, Wilmington, DE 19808,
print name print business address

am certifying as Owner (Owner or Remedial Party)

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

Ian McCary

Remediation Project Manager - Ashland Inc.

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

3/31/2023
Date

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